

1 Implementation

```
1 <{*class>
2 % !BIB program = biber
3 %
4 % uithesis.cls
5 % Kelas Dokumen LaTeX Terpadu untuk Tugas Akhir Universitas Indonesia
6 %
7 % @author Ichlasul Affan, et al.
8 % @version 3.0.0
9 % @date 2026/05/25
10 %
11 % SPDX-License-Identifier: LPPL-1.3c
12 %
13 % Karya ini dapat didistribusikan dan/atau dimodifikasi berdasarkan ketentuan
14 % LaTeX Project Public License, versi 1.3c atau versi yang lebih baru.
15 % Versi terbaru lisensi ini tersedia di:
16 % https://www.latex-project.org/lppl.txt
17 %
18 % Berdasarkan karya sebelumnya oleh Andreas Febrian, Lia Sadita,
19 % Fahrurrozi Rahman, Andre Tampubolon, Erik Dominikus, Azhar Kurnia,
20 % Muhammad Aulia Adil Murtito, Daya Adianto, Francis Wibisono,
21 % dan Ilma Ainur Rohma.
22 % Lihat direktori _attributions/ untuk daftar lengkap kontributor.
23 %
24 % Penggunaan:
25 % \documentclass[format=monograph, type=Skripsi, jenjang=Sarjana, lang=indonesian]{uithesis}
26 %
27 % Opsi kelas:
28 % format : monograph (default) | journal
29 % type : Skripsi (default) | Tesis | Disertasi
30 % | {Laporan Kerja Praktik} | {Kampus Merdeka}
31 % jenjang : Sarjana (default) | Magister | Doktor
32 % lang : indonesian (default) | english
33 % columns : 1 (default) | 2
34 % Jumlah kolom konten (khusus format journal).
35 % print : twoside (default) | oneside
36 % Mode pencetakan (khusus format monograf).
37 % citation: apa (default) | ieee | acm | vancouver | mla | harvard
38 % | chicago | turabian | acs | nature | science | aip
39 % | oscola | custom
40 % spacing : semantic | calibrated (default)
41 % paragraph: noindent (default) | indent
42 % plagiarismcheck: false (default) | true
43 %
44 % Pintasan tanpa nilai juga tersedia:
45 % \documentclass[monograph, Skripsi, Sarjana]{uithesis}
46 %
47
48
49 %=====
50 % IDENTIFIKASI KELAS
51 %=====
52
```

```

53 \NeedsTeXFormat{LaTeX2e}[2020/10/01]
54 \ProvidesClass{uithesis}[2026/08/20 v3.0.0 UI Thesis Template]
55
56
57 %=====
58 % KEBIJAKAN KELAS (policy surface)
59 %=====
60
61 \newif\ifUI@calibratedspacing
62 \UI@calibratedspacingtrue
63 \newif\ifUI@twosideprint
64 \UI@twosideprinttrue
65 \newif\ifUI@paragraphindent
66 \UI@paragraphindentfalse
67 \newif\ifUI@plagiarismcheck
68 \UI@plagiarismcheckfalse
69 \newcommand{\UI@chapterHeadingStyle}{\singlespacing\centering\rm\bfseries}
70 \newcommand{\UI@sectionHeadingStyle}{\normalfont\fontsize{12}{15}\bfseries}
71 \newcommand{\UI@journalSectionHeadingStyle}{\normalfont\fontsize{12}{15}\bfseries}
72
73 \newcommand{\UI@applyFooterFont}{%
74   \fontsize{10}{12}\selectfont
75   \fontfamily{phv}\selectfont
76   \bfseries
77 }
78
79 \newcommand{\UI@applyPageNumberFont}{%
80   \fontsize{12}{15}\selectfont
81   \fontfamily{ptm}\selectfont
82 }
83
84
85 %=====
86 % PEMROSESAN OPSI (xkeyval)
87 %=====
88
89 \RequirePackage{xkeyval}
90
91 % Penanda format dan bahasa
92 \newif\ifUI@monograph \UI@monographtrue % default: monograph
93 \newif\ifUI@english \UI@englishfalse % default: indonesia
94 \newif\ifUI@twocolumn \UI@twocolumnfalse % default: satu kolom
95 \newif\ifUI@allowmultiauthor
96 \UI@allowmultiauthortrue
97
98 \newcommand{\UI@warnUnknownChoice}[3]{%
99   \ClassWarning{uithesis}{#1 tidak dikenal: '#2'. Menggunakan '#3'.}%
100 }
101
102 % Kunci format
103 \define@choicekey+{uithesis.cls}{format}[\val\nr]{monograph,journal}{%
104   \ifnum\nr=0\relax \UI@monographtrue \else \UI@monographfalse \fi
105 }{%
106   \UI@warnUnknownChoice{Format}{\val}{monograph}%

```

```

107 }
108
109 % Kunci type
110 \def\UI@type{Skripsi}
111 \define@choicekey+{uithesis.cls}{type}[\val\nr]{%
112   {Skripsi,Tesis,Disertasi,Laporan Kerja Praktik,Kampus Merdeka}{%
113     \edef\UI@type{\val}%
114     \ifnum\nr=0\relax
115       \UI@allowmultiauthortrue
116     \else
117       \UI@allowmultiauthorfalse
118     \fi
119   }{%
120     \UI@warnUnknownChoice{Tipe}{\val}{Skripsi}%
121   }
122
123 % Kunci jenjang
124 \def\UI@jenjang{Sarjana}
125 \define@choicekey+{uithesis.cls}{jenjang}[\val\nr]{Sarjana,Magister,Doktor}{%
126   \edef\UI@jenjang{\val}%
127 }{%
128   \UI@warnUnknownChoice{Jenjang}{\val}{Sarjana}%
129 }
130
131 % Kunci lang
132 \define@choicekey+{uithesis.cls}{lang}[\val\nr]{indonesian,english}{%
133   \ifnum\nr=0\relax \UI@englishfalse \else \UI@englishtrue \fi
134 }{%
135   \UI@warnUnknownChoice{Bahasa}{\val}{indonesian}%
136 }
137
138 % Kunci columns (hanya efektif pada format jurnal)
139 \define@choicekey+{uithesis.cls}{columns}[\val\nr]{1,2}{%
140   \ifnum\nr=0\relax \UI@twocolumnfalse \else \UI@twocolumntrue \fi
141 }{%
142   \UI@warnUnknownChoice{Jumlah kolom}{\val}{1}%
143 }
144
145 \newcommand{\UI@setspacingpolicyfromindex}[1]{%
146   \ifnum#1=0\relax
147     \UI@calibratedspacingfalse
148   \else
149     \UI@calibratedspacingtrue
150   \fi
151 }
152
153 % Kunci spacing
154 \define@choicekey+{uithesis.cls}{spacing}[\val\nr]{semantic,calibrated}{%
155   \UI@setspacingpolicyfromindex{\nr}%
156 }{%
157   \UI@warnUnknownChoice{Spasi}{\val}{calibrated}%
158 }
159 \define@choicekey+{uithesis.cls}{paragraph}[\val\nr]{noindent,indent}{%
160   \ifnum\nr=0\relax

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```

161 \UI@paragraphindentfalse
162 \else
163 \UI@paragraphindenttrue
164 \fi
165 }{%
166 \UI@warnUnknownChoice{Paragraf}{\val}{noindent}%
167 }
168 \define@key{uithesis.cls}{plagiarismcheck}[true]{%
169 \ifundefined{UI@plagiarismcheck#1}{%
170 \UI@warnUnknownChoice{Mode cetak uji plagiarisme}{#1}{false}%
171 }{\@nameuse{UI@plagiarismcheck#1}}%
172 }
173
174 \define@choicekey+{uithesis.cls}{print}[\val\nr]{oneside,twoside}{%
175 \ifnum\nr=0\relax
176 \UI@twosideprintfalse
177 \else
178 \UI@twosideprinttrue
179 \fi
180 }{%
181 \UI@warnUnknownChoice{Mode pencetakan}{\val}{twoside}%
182 }
183
184 % Kunci sitasi biblatex.
185 \def\UI@citationpreset{apa}
186 \let\UI@citationstyleoverride\@empty
187 \let\UI@bibstyleoverride\@empty
188 \let\UI@citationmappingoverride\@empty
189 \def\UI@biblatexextraoptions{}
190
191 % Setter internal yang dipakai saat pemrosesan opsi kelas.
192 \newcommand{\UI@setcitationpreset}[1]{\edef\UI@citationpreset{#1}}
193 \newcommand{\UI@setcitationstyleoverride}[1]{\def\UI@citationstyleoverride{#1}}
194 \newcommand{\UI@setbibstyleoverride}[1]{\def\UI@bibstyleoverride{#1}}
195 \newcommand{\UI@setcitationmappingoverride}[1]{\def\UI@citationmappingoverride{#1}}
196 \newcommand{\UI@setbiblatexextraoptions}[1]{\gdef\UI@biblatexextraoptions{, #1}}
197
198 \define@choicekey+{uithesis.cls}{citation}[\val\nr]{%
199 apa,ieee,acm,vancouver,mla,harvard,chicago,turabian,acs,nature,science,aip,oscola,custom%
200 }{%
201 \UI@setcitationpreset{\val}%
202 }{%
203 \UI@warnUnknownChoice{Sitasi}{\val}{apa}%
204 }
205
206 % Pintasan tanpa nilai (pola acmart)
207 \DeclareOptionX{monograph}{\setkeys{uithesis.cls}{format=monograph}}
208 \DeclareOptionX{journal}{\setkeys{uithesis.cls}{format=journal}}
209 \DeclareOptionX{Skripsi}{\setkeys{uithesis.cls}{type=Skripsi}}
210 \DeclareOptionX{Tesis}{\setkeys{uithesis.cls}{type=Tesis}}
211 \DeclareOptionX{Disertasi}{\setkeys{uithesis.cls}{type=Disertasi}}
212 \DeclareOptionX{KP}{\setkeys{uithesis.cls}{type=Laporan Kerja Praktikk}}
213 \DeclareOptionX{MBKM}{\setkeys{uithesis.cls}{type=Kampus Merdeka}}
214 \DeclareOptionX{Sarjana}{\setkeys{uithesis.cls}{jenjang=Sarjana}}

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215 \DeclareOptionX{Magister}{\setkeys{uithesis.cls}{jenjang=Magister}}
216 \DeclareOptionX{Doktor}{\setkeys{uithesis.cls}{jenjang=Doktor}}
217 \DeclareOptionX{indonesian}{\setkeys{uithesis.cls}{lang=indonesian}}
218 \DeclareOptionX{english}{\setkeys{uithesis.cls}{lang=english}}
219 \DeclareOptionX{indent}{\setkeys{uithesis.cls}{paragraph=indent}}
220 \DeclareOptionX{noindent}{\setkeys{uithesis.cls}{paragraph=noindent}}
221
222 % Teruskan opsi yang tidak dikenal ke kelas report
223 \DeclareOptionX*{\PassOptionsToClass{CurrentOption}{report}}
224 \ProcessOptionsX\relax
225
226 % Muat kelas dasar
227 \LoadClass[12pt,a4paper,oneside,twoside,final]{report}
228 \raggedbottom
229
230 \newcommand{\UI@applyMainSpacing}{%
231   \ifUI@calibratedspacing
232     \setstretch{1.4}%
233   \else
234     \onehalfspacing
235   \fi
236 }
237 \newcommand{\UI@restoreMainSpacing}{\UI@applyMainSpacing}
238 \newcommand{\UI@footerText}{\UI@applyFooterFont Universitas Indonesia}
239 \newcommand{\UI@pageNumberText}{\UI@applyPageNumberFont\thepage}
240 \newcommand{\UI@applyParagraphLayout}{%
241   \ifUI@paragraphindent
242     \setlength{\parindent}{1.5em}%
243     \setlength{\parskip}{0pt}%
244   \else
245     \setlength{\parindent}{0pt}%
246     \setlength{\parskip}{12pt}%
247   \fi
248 }
249
250
251 %=====
252 % KONFIGURASI BIBLATEX
253 %=====
254
255 \def\UI@biblatexcitestyle{apa}
256 \def\UI@biblatexbibstyle{apa}
257 \def\UI@biblatexmapping{british-apa}
258
259 \newcommand{\UI@bibSetProfile}[3]{%
260   \gdef\UI@biblatexcitestyle{#1}%
261   \gdef\UI@biblatexbibstyle{#2}%
262   \gdef\UI@biblatexmapping{#3}%
263 }
264
265 \newcommand{\UI@bibWarnMissingPackage}[3]{%
266   \ClassWarning{uithesis}{%
267     Paket '#1' tidak ditemukan.\MessageBreak
268     Fallback ke '#2'.\MessageBreak

```

```

269     Install via: tlmgr install #3%
270 }%
271 }
272
273 \newcommand{\UI@bibEnsurePackage}[1]{%
274   \ifpackageloaded{#1}{\RequirePackage{#1}}%
275 }
276
277 \newcommand{\UI@bibApplyPresetWithFallback}[8]{%
278   \IfFileExists{#1}{%
279     \UI@bibSetProfile{#2}{#3}{#6}%
280   }{%
281     \UI@bibEnsurePackage{#7}%
282     \IfFileExists{#1}{%
283       \UI@bibSetProfile{#2}{#3}{#6}%
284     }{%
285       \UI@bibWarnMissingPackage{#7}{#8}{#7}%
286       \UI@bibSetProfile{#4}{#5}{#6}%
287     }%
288   }%
289 }
290
291 \newcommand{\UI@bibDefinePreset}[4]{%
292   \expandafter\newcommand\csname UI@applycitationpreset@#1\endcsname{%
293     \UI@bibSetProfile{#2}{#3}{#4}%
294   }%
295 }
296
297 \newcommand{\UI@bibDefinePresetWithFallback}[9]{%
298   \expandafter\newcommand\csname UI@applycitationpreset@#1\endcsname{%
299     \UI@bibApplyPresetWithFallback{#2}{#3}{#4}{#5}{#6}{#7}{#8}{#9}%
300   }%
301 }
302
303 \newcommand{\UI@bibDefineNumericFallbackPreset}[4]{%
304   \UI@bibDefinePresetWithFallback{#1}{#2}{#3}{#3}{numeric-comp}{numeric}{british}{#4}{numeric}
305 }
306
307 \UI@bibDefinePreset{apa}{apa}{apa}{british-apa}
308 \UI@bibDefinePreset{ieee}{ieee}{ieee}{british}
309 \UI@bibDefinePreset{vancouver}{numeric-comp}{numeric}{british}
310 \UI@bibDefinePreset{harvard}{authoryear}{authoryear}{british}
311 \UI@bibDefinePreset{custom}{apa}{apa}{british-apa}
312 \UI@bibDefinePresetWithFallback{mla}{mla.bbx}{mla}{mla}{authortitle}{authortitle}{british}{b
313 \UI@bibDefinePresetWithFallback{chicago}{chicago-authordate.bbx}{chicago-authordate}{chicago
314 \UI@bibDefinePresetWithFallback{turabian}{chicago-notes.bbx}{chicago-notes}{chicago-notes}{c
315 \UI@bibDefineNumericFallbackPreset{acs}{chem-ac.s.bbx}{chem-ac.s}{biblatex-chem}
316 \UI@bibDefineNumericFallbackPreset{nature}{nature.bbx}{nature}{biblatex-nature}
317 \UI@bibDefineNumericFallbackPreset{science}{science.bbx}{science}{biblatex-science}
318 \UI@bibDefineNumericFallbackPreset{aip}{phys.bbx}{phys}{biblatex-phys}
319 \UI@bibDefinePresetWithFallback{oscola}{oscola.bbx}{oscola}{oscola}{authortitle}{authortitle
320
321 \newif\ifUI@bibacmpfileavailable
322 \newcommand{\UI@bibTrySetAcmProfile}{%

```

```

323 \IfFileExists{acm.bbx}{%
324   \UI@bibacmprofileavailabletrue
325   \IfFileExists{acm.cbx}{%
326     \UI@bibSetProfile{acm}{acm}{british}%
327   }{%
328     \UI@bibSetProfile{numeric-comp}{acm}{british}%
329   }%
330 }{%
331   \UI@bibacmprofileavailablefalse
332 }%
333 }
334
335 \newcommand{\UI@applycitationpreset@acm}{%
336   \UI@bibTrySetAcmProfile
337   \ifUI@bibacmprofileavailable\else
338     \UI@bibEnsurePackage{biblatex-acm}%
339     \UI@bibTrySetAcmProfile
340     \ifUI@bibacmprofileavailable\else
341       \UI@bibWarnMissingPackage{biblatex-acm}{numeric-comp / numeric}{biblatex-acm}%
342       \UI@bibSetProfile{numeric-comp}{numeric}{british}%
343     \fi
344   \fi
345 }
346
347 \newcommand{\UI@bibResolveConfiguration}{%
348   \ifcsname UI@applycitationpreset@UI@citationpreset\endcsname
349     \csname UI@applycitationpreset@UI@citationpreset\endcsname
350   \else
351     \ClassWarning{uithesis}{Sitasi preset 'UI@citationpreset' tidak dikenal. Menggunakan 'a
352     \UI@applycitationpreset@apa
353   \fi
354   \ifx\UI@citationstyleoverride\@empty\else
355     \gdef\UI@biblatexcitestyle{\UI@citationstyleoverride}%
356   \fi
357   \ifx\UI@bibstyleoverride\@empty\else
358     \gdef\UI@biblatexbibstyle{\UI@bibstyleoverride}%
359   \fi
360   \ifx\UI@citationmappingoverride\@empty\else
361     \gdef\UI@biblatexmapping{\UI@citationmappingoverride}%
362   \fi
363 }
364
365 % Perintah publik konfigurasi biblatex lanjutan.
366 \let\setuicitationpreset\UI@setcitationpreset
367 \let\setuicitestyle\UI@setcitationstyleoverride
368 \let\setuibibstyle\UI@setbibstyleoverride
369 \let\setuicitationmapping\UI@setcitationmappingoverride
370 \let\setuibiblatexoptions\UI@setbiblatexextraoptions
371 \newcommand{\setuibiblatexstyle}[1]{%
372   \UI@setcitationstyleoverride{#1}%
373   \UI@setbibstyleoverride{#1}%
374 }
375
376 \UI@bibResolveConfiguration

```

```

377
378
379 %=====
380 % IMPOR PAKET DEPENDENSI
381 %=====
382
383 %--- Tipografi & Tata Letak Halaman ---%
384 \RequirePackage{pslatex} % Times New Roman
385 \RequirePackage{setspace}
386 \UI@applyMainSpacing
387 \AtBeginDocument{\sloppy}
388 \if@UImonograph
389 \RequirePackage[paper=a4paper,headheight=14.5pt,%
390 left=3cm,top=3cm,right=3cm,bottom=3cm]{geometry}
391 \else
392 % Journal layout: wider text block, closer to common two-column templates.
393 \RequirePackage[paper=a4paper,headheight=14.5pt,%
394 left=2cm,top=3cm,right=2cm,bottom=3cm]{geometry}
395 \fi
396 \addtolength{\topmargin}{-14.5pt}
397 \if@UIenglish
398 \RequirePackage[indonesian,english]{babel} % english aktif
399 \else
400 \RequirePackage[english,indonesian]{babel} % indonesian aktif
401 \fi
402 \RequirePackage{changepage}
403 \strictpagecheck
404 \setlength{\emergencystretch}{1.5em}
405
406 %--- Struktur Dokumen ---%
407 \RequirePackage{tocbibind} % tambahkan pustaka dll. ke ToC
408 \RequirePackage[titles]{tocloft} % daftar isi kustom
409 \RequirePackage{fancyhdr} % header dan footer
410 \RequirePackage{pdfpages} % menyisipkan berkas PDF
411
412 %--- Tautan & Referensi ---%
413 \RequirePackage{hyperref}
414 \RequirePackage{url}
415 \urlstyle{same}
416
417 %--- Tabel ---%
418 \RequirePackage{booktabs}
419 \RequirePackage{multirow}
420 \RequirePackage{longtable}
421 \RequirePackage{supertabular}
422 \RequirePackage{array}
423 \RequirePackage{tabularx}
424 \RequirePackage{multicol}
425 \RequirePackage{colortbl}
426 \RequirePackage[most]{tcolorbox}
427
428 %--- Gambar & Figur ---%
429 \RequirePackage{graphicx}
430

```

```

431 % Keep images within the current text measure (column in two-column mode).
432 \def\UI@maxwidth{\ifdim\Gin@nat@width>\linewidth\linewidth\else\Gin@nat@width\fi}
433 \setkeys{Gin}{width=\UI@maxwidth,keepaspectratio}
434
435 \RequirePackage{wrapfig}
436 \RequirePackage{float}
437 \RequirePackage{tikzpagenodes}
438 \RequirePackage{tikz}
439 \usetikzlibrary{positioning}
440 \usetikzlibrary{chains}
441
442 %--- Matematika ---%
443 \RequirePackage{amsmath}
444 \RequirePackage{amsfonts}
445 \RequirePackage{amssymb}
446
447 %--- Kode Program ---%
448 \RequirePackage{listings}
449 \RequirePackage[dvipsnames]{xcolor}
450 \RequirePackage{xparse}
451 %--- Sitasi (biblatex + biber) ---%
452 \RequirePackage[utf8]{inputenc} % harus dimuat sebelum biblatex
453 \RequirePackage{csquotes} % direkomendasikan biblatex bersama babel
454 \RequirePackage[%
455     backend = biber,%
456     citestyle = \UI@biblatexcitestyle,%
457     bibstyle = \UI@biblatexbibstyle,%
458     natbib = true,%
459     url = true,%
460     doi = true,%
461     language = british,%
462     alldates = long,%
463     texencoding = utf8%
464     \UI@biblatexextraoptions
465 ]{biblatex}
466
467 % \bibliography{file,...} -> deklarasi berkas .bib (dipanggil di preamble dokumen utama).
468 % Nama berkas tanpa ekstensi .bib; pisahkan beberapa berkas dengan koma.
469 % Contoh: \bibliography{config/references}
470 % \bibliography{main,supplement}
471 % Berkas dengan ekstensi .bib juga diterima secara otomatis.
472 \renewcommand{\bibliography}[1]{%
473     \@for\@bibfile:=#1\do{%
474         \filename@parse{\@bibfile}%
475         \ifx\filename@ext\relax
476             \addbibresource{\@bibfile.bib}%
477         \else
478             \addbibresource{\@bibfile}%
479         \fi
480     }%
481 }
482
483 % Terjemahan string sitasi ke Bahasa Indonesia -> hanya aktif bila lang=indonesian.
484 % Untuk lang=english, string British asli digunakan.

```

```

485 \if@UIenglish\else
486 \beginngroup
487 \edef\UI@tmp{\endgroup
488 \noexpand\DeclareLanguageMapping{indonesian}{\UI@biblatexmapping}}%
489 \UI@tmp
490 \newcommand{\UI@reformatBibDates}[1]{%
491 % Disable ordinal suffixes
492 \DefineBibliographyExtras{#1}{%
493 \protected\def\mkbibordinal##1{##1}%
494 \protected\def\mkbibmascord##1{##1}%
495 \protected\def\mkbibfemord##1{##1}%
496 \protected\def\mkbibneutord##1{##1}%
497 }%
498 % Define Indonesian month names and other strings
499 \DefineBibliographyStrings{british}{%
500 retrieved = {Diakses pada tanggal},%
501 from = {dari},%
502 january = {Januari},%
503 february = {Februari},%
504 march = {Maret},%
505 april = {April},%
506 may = {Mei},%
507 june = {Juni},%
508 july = {Juli},%
509 august = {Agustus},%
510 september = {September},%
511 october = {Oktober},%
512 november = {November},%
513 december = {Desember},%
514 }%
515 }%
516 % Apply to common English language variants
517 \UI@reformatBibDates{british}%
518 \UI@reformatBibDates{american}%
519 \UI@reformatBibDates{english}%
520 \UI@reformatBibDates{canadian}%
521 \UI@reformatBibDates{australian}%
522 \UI@reformatBibDates{newzealand}%
523 \fi
524
525 %--- Utilitas ---%
526 \RequirePackage{enumitem}
527 \RequirePackage{everyshi}
528 \RequirePackage{environ} % environment pengumpul konten
529 \RequirePackage{etoolbox} % hook environment (default centering table)
530 \RequirePackage{subcaption} % subfigure/subtable (dipakai di kedua format)
531 \RequirePackage{bm}
532 \RequirePackage{pdflscape}
533
534 %--- Paket Spesifik Format ---%
535 \if@UImonograph
536 % automake diperlukan agar makeglossaries dijalankan otomatis.
537 \RequirePackage[automake,acronyms,symbols,numberlist,nomain]{glossaries-extra}
538 \makeglossaries

```

```

539 \else
540 % Pada format jurnal, glossaries dimuat tanpa automake karena \makeglossaries
541 % tidak dipanggil (tidak ada halaman Daftar Istilah pada format jurnal).
542 \RequirePackage[acronyms,symbols,nonumberlist,nomain]{glossaries-extra}
543 \ifUI@paragraphindent
544 \RequirePackage[indentfirst]
545 \fi
546 \ifUITwocolumn
547 % improve full-width float behavior (top/bottom) in two-column journal.
548 \RequirePackage{dblfloatfix}
549 % allow mid-page full-width blocks in two-column journal.
550 \RequirePackage{cuted}
551 % provide explicit \balance/\nobalance controls for forced page breaks.
552 \RequirePackage{balance}
553 % balance columns on the last page so empty space sits at the bottom.
554 \RequirePackage{flushend}
555 \fi
556 \fi
557
558 %--- Dukungan Multi-Bahasa (CJK) ---%
559 \RequirePackage{CJKutf8}
560
561
562 %=====
563 % KONFIGURASI PAKET
564 %=====
565
566 %--- Hyperref ---%
567 \hypersetup{%
568 a4paper,%
569 colorlinks=false,%
570 pdfborder=0 0 0,%
571 linkcolor=blue,%
572 citecolor=black,%
573 bookmarksopen=false,%
574 bookmarksnumbered=true,%
575 plainpages=false,%
576 pdfpagelabels=true,%
577 hypertexnames=false,%
578 pdfstartview=FitH,%
579 pdfview=FitH%
580 }%
581 \def\contentsline#1#2#3#4{%
582 \ifx\\#4\\%
583 \csname l@#1\endcsname{#2}{#3}%
584 \else
585 \csname l@#1\endcsname{%
586 \hyper@linkstart{link}{#4}{#2}\hyper@linkend
587 }{%
588 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
589 }%
590 \fi
591 }
592

```

```

593 %--- Konfigurasi Gaya Kode Program ---%
594 % Warna dasar (semua memenuhi rasio kontras WCAG AA >= 4.5:1 pada latar putih)
595 \definecolor{codegreen}{rgb}{0,0.50,0} % hijau tua, kontras ~5.1:1
596 \definecolor{codegray}{rgb}{0.35,0.35,0.35}% abu tua (nomor baris), kontras ~9.3:1
597 \definecolor{codepurple}{rgb}{0.58,0,0.82} % ungu, kontras ~6.5:1
598 % Palet warna bersama untuk definisi bahasa pemrograman bawaan:
599 \colorlet{keywordcolor}{NavyBlue} % kata kunci: ~5.1:1
600 \colorlet{typecolor}{teal} % tipe data: ~4.5:1
601 \colorlet{greencomments}{OliveGreen} % komentar: ~4.8:1
602 \lstdefinestyle{uistyle}{%
603   commentstyle=\color{codegreen},%
604   keywordstyle=\color{NavyBlue},%
605   numberstyle=\footnotesize\color{codegray},%
606   stringstyle=\color{codepurple},%
607   identifierstyle=\color{black},%
608   basicstyle=\ttfamily\small,%
609   breakatwhitespace=false,%
610   breaklines=true,%
611   breakindent=1em,%
612   columns=fullflexible,%
613   captionpos=b,%
614   keepspaces=true,%
615   numbers=left,%
616   numbersep=5pt,%
617   showspaces=false,%
618   showstringspaces=false,%
619   showtabs=false,%
620   tabsize=2%
621 }
622 \lstset{style=uistyle}
623
624 %--- Penimpaan Senar Babel ---%
625 \addto\captionsindonesian{%
626   \renewcommand{\figurename}{Gambar}%
627   \renewcommand{\tablename}{Tabel}%
628   \renewcommand{\lstlistingname}{Kode}%
629 }
630 \addto\captionsenglish{%
631   \renewcommand{\figurename}{Figure}%
632   \renewcommand{\tablename}{Table}%
633   \renewcommand{\lstlistingname}{Code}%
634 }
635
636 % Pengaturan umum untuk semua jenis caption, termasuk lstlisting.
637 % Redefinisikan justifikasi centering agar \parfillskip=0pt sehingga baris
638 % terakhir kalimat yang panjang juga rata tengah (LaTeX \centering default
639 % membiarkan \parfillskip=0pt+1fil sehingga baris terakhir bergeser ke kanan).
640 \DeclareCaptionJustification{centering}{%
641   \centering\parfillskip\z@skip}
642 \DeclareCaptionFont{uicaption}{\fontsize{12}{15}\selectfont}
643 \captionsetup{labelfont=normalfont,textfont=normalfont,font=uicaption,justification=centering}
644
645
646 %=====

```

```

647 % TATA LETAK ISI: GAYA JUDUL BAB (ConnyRevised, diadaptasi dari fncychap v1.34)
648 %=====
649 % Karya ini diadaptasi dari fncychap.sty oleh Ulf A. Lindgren (LPPL).
650 % Hanya konfigurasi ConnyRevised yang diperlukan; gaya lain dihilangkan.
651 % Kustomisasi khusus UI (v2.2.0) diterapkan di bagian ConnyRevised.
652 %=====
653 % Deklarasi \newif dan sentinel \if@mainmatter dipindah ke luar \if@UImonograph.
654 % Dalam skip-mode (misal: type=journal), TeX menghitung pasangan \if...\fi;
655 % token yang tidak terdefinisi tidak dihitung, sehingga dapat menyebabkan \fi
656 % menutup blok terlalu cepat. Semua kondisional yang dipakai di tubuh definisi
657 % di dalam blok harus sudah terdefinisi sebelum blok ini dimulai.
658 \newif\ifUCN \UCNfalse
659 \newif\ifLCN \LCNfalse
660 \newif\ifinapp \inappfalse
661 \newif\ifUCT \UCTfalse
662 \newif\ifLCT \LCTfalse
663 % Penamaan historis fncychap:
664 % - UCN/LCN: mode huruf chapter name (uppercase/lowercase)
665 % - UCT/LCT: mode huruf chapter title (uppercase/lowercase)
666 % \if@mainmatter didefinisikan oleh book.cls, bukan report.cls; definisikan
667 % secara eksplisit sehingga sudah dikenal oleh skip-mode sebelum blok di bawah.
668 \@ifundefined{@mainmatter}{\newif\if@mainmatter \@mainmattertrue}{\fi}
669 \@ifundefined{@chapapp}{\let\@chapapp\chaptername}{\fi}
670 \if@UImonograph
671 % CNV = Chapter Name Variant (gaya teks label "BAB/CHAPTER").
672 \newcommand{\CNV}{\huge\bfseries}
673 \newcommand{\ChNameVar}[1]{\renewcommand{\CNV}{\#1}}
674 % CNoV = Chapter Number Variant (gaya angka bab).
675 \newcommand{\CNoV}{\huge\bfseries}
676 \newcommand{\ChNumVar}[1]{\renewcommand{\CNoV}{\#1}}
677 \def\ChNameLowerCase{\LCNtrue\UCNfalse}
678 \def\ChNameUpperCase{\UCNtrue\LCNfalse}
679 \def\ChNameAsIs{\UCNfalse\LCNfalse}
680 \renewcommand\appendix{\par
681 \setcounter{chapter}{0}%
682 \setcounter{section}{0}%
683 \inapptrue%
684 \renewcommand\@chapapp{\appendixname}%
685 \renewcommand\thechapter{\@Alph{c}{chapter}}}
686 % FmN = Format Name (format teks label "BAB/CHAPTER" dengan opsi huruf besar/kecil/default)
687 \newcommand{\FmN}[1]{%
688 \ifUCN{\MakeUppercase{\#1}}\LCNfalse
689 \else\ifLCN{\MakeLowercase{\#1}}\UCNfalse\else\#1\fi\fi}
690 % CTV = Chapter Title Variant (gaya teks judul bab).
691 \newcommand{\CTV}{\Huge\bfseries}
692 \newcommand{\ChTitleVar}[1]{\renewcommand{\CTV}{\#1}}
693 \newlength{\RW}
694 \setlength{\RW}{1pt}
695 \newcommand{\ChRuleWidth}[1]{\setlength{\RW}{\#1}}
696 \def\ChTitleLowerCase{\LCTtrue\UCTfalse}
697 \def\ChTitleUpperCase{\UCTtrue\LCTfalse}
698 \def\ChTitleAsIs{\UCTfalse\LCTfalse}
699 % FmTi = Format Title (format teks judul bab dengan opsi huruf besar/kecil/default).
700 \newcommand{\FmTi}[1]{%

```

```

701 \ifUCT{\MakeUppercase{#1}}\LCTfalse
702 \else\ifLCT{\MakeLowercase{#1}}\UCTfalse\else{#1}\fi\fi}
703 \newlength{\mylen}
704 \newlength{\myhi}
705 \newlength{\px}
706 \newlength{\py}
707 \newlength{\pyy}
708 \newlength{\pxx}
709 \def\mghrulefill#1{\leavevmode\leaders\hrule\@height #1\hfill\kern\z@}
710 % DOCH = baris "BAB/CHAPTER" + nomor bab pada heading bernomor.
711 \newcommand{\DOCH}{%
712 \CNV\FmN{\@chapapp}\space \CNoV\thechapter
713 \par\nobreak
714 \vskip 20\p@}
715 % DOTI = baris judul bab bernomor.
716 \newcommand{\DOTI}[1]{\CTV\FmTi{#1}\par\nobreak \vskip 40\p@}
717 % DOTIS = baris judul bab tak bernomor (mis. daftar isi, lampiran tanpa nomor bab).
718 \newcommand{\DOTIS}[1]{\CTV\FmTi{#1}\par\nobreak \vskip 40\p@}
719 %--- Setelan ConnyRevised (UI 2017 v2.2.0) ---%
720 \ChNameUpperCase
721 \ChTitleUpperCase
722 \ChNameVar{\UI@chapterHeadingStyle}
723 \ChNumVar{\rm\bfseries}
724 \ChTitleVar{\UI@chapterHeadingStyle}
725 \renewcommand{\DOCH}{%
726 % Jarak negatif untuk menaikkan blok "BAB/CHAPTER" mendekati tepi atas.
727 \vspace*{-4.5em}%
728 \CNV\FmN{\@chapapp}\space\CNoV
729 % Rapatkan jarak antara label bab dan angka bab.
730 \vspace*{-1em}%
731 \thechapter
732 \par\nobreak
733 % Tarik judul sedikit ke atas agar kompak seperti gaya UI lama.
734 \vskip -0.5\baselineskip}
735 \renewcommand{\DOTI}[1]{%
736 \CTV\FmTi{#1}\par\nobreak
737 \vskip 20\p@}
738 \renewcommand{\DOTIS}[1]{%
739 % Varian tanpa nomor: kompensasi vertikal agar ritme sama dengan heading bernomor.
740 \vspace*{-4em}%
741 \CTV\FmTi{#1}\par\nobreak
742 \vspace*{-1em}}
743 %--- Makro pembentuk kepala bab ---%
744 \def\@makechapterhead#1{%
745 \vspace*{10\p@}%
746 {\parindent \z@ \raggedright \normalfont
747 \ifnum \c@secnumdepth >\m@ne
748 \if@mainmatter
749 \DOCH
750 \fi
751 \fi
752 \interlinepenalty\@M
753 \if@mainmatter
754 \DOTI{#1}%

```

```

755         \else
756             \DOTIS{#1}%
757         \fi}}
758 \def\@schapter#1{%
759     \if@twocolumn
760         \@makeschapterhead{#1}%
761     \else
762         \@makeschapterhead{#1}%
763         \@afterheading
764     \fi}
765 \def\@makeschapterhead#1{%
766     {\parindent \z@ \centering
767      \UI@chapterHeadingStyle
768      \interlinepenalty\@M
769      \MakeUppercase{#1}%
770      \vskip 20\p@}}
771 \fi % end \if@UImonograph (gaya judul bab)
772
773
774 %=====
775 % TATA LETAK ISI: HALAMAN & TIPOGRAFI FORMAT
776 %=====
777
778 % Sentinel kosong untuk logika kondisional
779 \def\blank{}
780
781 % Pembantu kondisional: satu penulis vs. lebih dari satu.
782 % Gunakan: \UI@IfSingleAuthor{jika-satu-penulis}{jika-lebih}
783 % Hanya Skripsi yang mendukung lebih dari satu penulis.
784 \newcommand{\UI@IfSingleAuthor}[2]{%
785     \ifUI@allowmultiauthor
786         \ifx\blank\npmDua#1\else#2\fi
787     \else
788         #1%
789     \fi
790 }
791 \newcommand{\UI@IfThirdAuthor}[2]{%
792     \ifUI@allowmultiauthor
793         \ifx\blank\npmTiga#2\else#1\fi
794     \else
795         #2%
796     \fi
797 }
798 % Tambahkan penulis/NPM tambahan hanya bila isinya ada.
799 \newcommand{\UI@AppendIfPresent}[2]{\ifx#1\blank\else{~/~#2}\fi}
800
801 % Logo default
802 \def\UI@makaraimage{uithesis-makara.png}
803
804 % Perbandingan string murni LaTeX2e. \strcmpare{STRING}{MACRO}{sama}{beda}
805 % Argumen #2 harus berupa makro dengan isi karakter biasa; \edef mengembangkannya.
806 \newcommand{\strcmpare}[4]{%
807     \def\UI@strcmp@a{#1}\edef\UI@strcmp@b{#2}%
808     \ifx\UI@strcmp@a\UI@strcmp@b

```

```

809     \expandafter\@firstoftwo
810 \else
811     \expandafter\@secondoftwo
812 \fi
813 {#3}{#4}%
814 }
815
816 \if@UImonograph
817 %--- Gaya Monograf ---%
818 \UI@applyParagraphLayout
819 \setlist[itemize]{nosep,leftmargin=*}
820 \setlist[enumerate]{nosep,leftmargin=*}
821
822 \renewcommand{\chaptername}{BAB}
823 \setcounter{secnumdepth}{3}
824 \setcounter{tocdepth}{3}
825
826 \renewcommand\section{\@startsection{section}{1}{\z@}%
827     {0pt}{1pt \@plus -1pt \@minus 1pt}{\UI@sectionHeadingStyle}}
828 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
829     {0pt}{1pt \@plus -1pt \@minus 1pt}{\UI@sectionHeadingStyle}}
830 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
831     {0pt}{1pt \@plus -1pt \@minus 1pt}{\UI@sectionHeadingStyle}}
832 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
833     {0pt}{1pt \@plus -1pt \@minus 1pt}{\UI@sectionHeadingStyle}}
834 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\z@}%
835     {0pt}{1pt \@plus -1pt \@minus 1pt}{\UI@sectionHeadingStyle}}
836
837 % Penghitung halaman per bab untuk logika internal bab.
838 \newcounter{chapterpagecount}[chapter]
839 % Penghitung halaman fisik global (tidak terpengaruh reset \pagenumbering).
840 % Digunakan untuk penentuan sisi kanan/kiri pada mode twoside.
841 \newcounter{UI@physicalpage}
842 \EveryShipout{\stepcounter{chapterpagecount}\stepcounter{UI@physicalpage}}
843
844
845 \else
846 %--- Gaya Jurnal ---%
847 \UI@applyParagraphLayout
848 \ifUI@paragraphindent\else\setlength{\parskip}{0pt}\fi
849 \renewcommand{\chaptername}{}
850 \setcounter{secnumdepth}{-1}
851 \setcounter{tocdepth}{3}
852
853 % Stub counter agar \thechapterpagecount tidak error.
854 \newcounter{chapterpagecount}
855
856 % \clearchapter no-op pada format jurnal.
857 \newcommand{\clearchapter}{}
858 \newcommand{\forceclearchapter}{}
859
860 % Pertahankan alur jurnal inline tanpa \@topnewpage.
861 \newlength{UI@journal@chapterbeforeskip}
862 \newlength{UI@journal@chapterafterskip}

```

```

863 \setlength{UI@journal@chapterbeforeskip}{1.2\baselineskip}
864 \setlength{UI@journal@chapterafterskip}{6\p@}
865
866 \renewcommand\chapter{%
867   \par
868   \addvspace{UI@journal@chapterbeforeskip}%
869   \thispagestyle{plain}%
870   \global\@topnum\z@
871   \@afterindentfalse
872   \secdef\@chapter\@schapter
873 }
874
875 \def\@chapter[#1]#2{%
876   \ifnum \c@secnumdepth >\m@ne
877     \refstepcounter{chapter}%
878     \typeout{\@chapapp\space thechapter.}%
879     \addcontentsline{toc}{chapter}{\protect\numberline{thechapter}#1}%
880   \else
881     \addcontentsline{toc}{chapter}{#1}%
882   \fi
883   \@makechapterhead{#2}%
884   \@afterheading
885 }
886
887 \def\@schapter#1{%
888   \@makeschapterhead{#1}%
889   \@afterheading
890 }
891
892 % Judul bab jurnal: TNR 12pt tebal, tanpa nomor, mengikuti alur teks.
893 \def\@makechapterhead#1{%
894   {\parindent\z@\normalfont\fontsize{12}{15}\bfseries
895     \MakeUppercase{#1}\par}%
896   \vskip UI@journal@chapterafterskip
897 }
898 % Bab bertanda (*) menggunakan layout yang sama dengan bab bernomor.
899 \let\@makeschapterhead\@makechapterhead
900 \renewcommand\section{\@startsection{section}{0}{\z@}%
901   {-1.5ex \@plus -.5ex \@minus -.1ex}%
902   {1.0ex \@plus .1ex}%
903   {\UI@journalSectionHeadingStyle}}
904 \renewcommand\subsection{\@startsection{subsection}{1}{\z@}%
905   {-1.0ex \@plus -.3ex \@minus -.1ex}%
906   {0.8ex \@plus .1ex}%
907   {\UI@journalSectionHeadingStyle}}
908 \let\oldsection\section
909 \let\oldsubsection\subsection
910 \RenewDocumentCommand{\section}{s o m}{%
911   \par\nopagebreak[4]%
912   \IfBooleanTF{#1}{%
913     \phantomsection
914     \oldsection*{#3}%
915     \IfValueTF{#2}{%
916       \addcontentsline{toc}{section}{#2}%

```

```

917     }{%
918         \addcontentsline{toc}{section}{#3}%
919     }%
920 }{%
921     \IfValueTF{#2}{%
922         \oldsection[#2]{#3}%
923     }{%
924         \oldsection{#3}%
925     }%
926 }%
927 }
928 \RenewDocumentCommand{\subsection}{s o m}{%
929     \par\nopagebreak[4]%
930     \IfBooleanTF{#1}{%
931         \phantomsection
932         \oldsubsection*{#3}%
933         \IfValueTF{#2}{%
934             \addcontentsline{toc}{subsection}{#2}%
935         }{%
936             \addcontentsline{toc}{subsection}{#3}%
937         }%
938     }{%
939         \IfValueTF{#2}{%
940             \oldsubsection[#2]{#3}%
941         }{%
942             \oldsubsection{#3}%
943         }%
944     }%
945 }
946 \fi
947
948 % Format jurnal harus mengalir kontinu antarbab/subberkas.
949 \if@UImonograph\else
950     \let\include\input
951 \fi
952
953 % Override path/logo Makara dari preamble pengguna.
954 \newcommand{\setmakaraimage}[1]{\gdef\UI@makaraimage{#1}}
955
956 % Penempatan figur dan tabel secara paksa (H)
957 \floatplacement{figure}{H}
958 \floatplacement{table}{H}
959
960 % Selalu pusatkan isi float tabel lintas format (monograf/jurnal 1-2 kolom).
961 \AtBeginEnvironment{table}{\centering}
962 \AtBeginEnvironment{table*}{\centering}
963 % Pusatkan longtable di dalam kolom teks (atur Lleft/Lright ke fill).
964 % Ini memengaruhi semua longtable, termasuk backend UIlongtable mode monograf.
965 \AtBeginEnvironment{longtable}{%
966     \setlength{\Lleft}{0pt plus 1fill}%
967     \setlength{\Lright}{0pt plus 1fill}}
968
969
970 %=====

```

```

971 % TATA LETAK ISI: PEMBANTU FORMAT JURNAL DUA KOLOM
972 %=====
973 % Environment-environment ini hanya aktif ketika format=journal.
974 % Tiga mode tersedia:
975 %   Mode A (UIwidetable, UIwidefigure) -> float penuh-halaman di atas/bawah
976 %   Mode B (UIwideblock)                -> blok penuh-halaman non-float di tengah
977 %   Mode C (UIlandscape)                 -> halaman landscape dengan penjaga lebar
978 % Pada format monograf, environment ini berfungsi sebagai table/figure biasa.
979 % Bergantung pada: xparse (keduanya); cuted/strip (UIwideblock, hanya dua-kolom).
980 %=====
981
982 % Mode A: float penuh-halaman (atas/bawah) di konfigurasi satu/dua-kolom.
983 \NewDocumentEnvironment{UIwidetable}{0}{tbp}{ }{%
984   \if@UITwocolumn
985     \begin{table*}[#1]
986   \else
987     \begin{table}[#1]
988   \fi
989   \centering
990 }{%
991   \if@UITwocolumn
992     \end{table*}
993   \else
994     \end{table}
995   \fi
996 }
997
998 \NewDocumentEnvironment{UIwidefigure}{0}{tbp}{ }{%
999   \if@UITwocolumn
1000     \begin{figure*}[#1]
1001   \else
1002     \begin{figure}[#1]
1003   \fi
1004   \centering
1005 }{%
1006   \if@UITwocolumn
1007     \end{figure*}
1008   \else
1009     \end{figure}
1010   \fi
1011 }
1012
1013 % Mode B: blok penuh-halaman non-float di tengah halaman dua-kolom.
1014 % Bergantung pada paket cuted (hanya dimuat jika format=journal dan columns=2).
1015 \newif\ifUI@instrip
1016 \NewDocumentEnvironment{UIwideblock}{0}{\textwidth}{ }{%
1017   \UI@instripfalse
1018   \if@UITwocolumn
1019     \if@twocolumn
1020       \UI@instriptrue
1021       \begin{strip}
1022     \fi
1023   \fi
1024   \begin{center}

```

```

1025 \begin{minipage}{#1}
1026 }{%
1027 \end{minipage}
1028 \end{center}
1029 \ifUI@instrip
1030 \end{strip}
1031 \UI@instripfalse
1032 \fi
1033 }
1034
1035 % Mode C: pembantu untuk konten multi-halaman (mis. longtable) di jurnal dua-kolom.
1036 \newif\ifUI@fullwidthpageswitched
1037 \newenvironment{UIfullwidthpages}{%
1038 \UI@fullwidthpageswitchedfalse
1039 \if@UI@twocolumn
1040 \if@twocolumn
1041 \clearpage
1042 \onecolumn
1043 \UI@fullwidthpageswitchedtrue
1044 \fi
1045 \fi
1046 }{%
1047 \ifUI@fullwidthpageswitched
1048 \clearpage
1049 \twocolumn
1050 \UI@fullwidthpageswitchedfalse
1051 \fi
1052 }
1053
1054 % Mode C: halaman landscape dengan penjaga UIfullwidthpages di jurnal dua-kolom.
1055 \newenvironment{UIlandscape}{%
1056 \begin{UIfullwidthpages}
1057 \begin{landscape}
1058 }{%
1059 \end{landscape}
1060 \end{UIfullwidthpages}
1061 }
1062
1063 % Tabel panjang lintas kolom/halaman.
1064 % Di mode satu kolom (monograf) menggunakan longtable; di mode dua kolom
1065 % (jurnal) menggunakan supertabular, yang tidak memiliki batasan
1066 % "not in 1-column mode" seperti longtable.
1067 % Tujuh perintah setup berikut harus dipanggil SEBELUM \begin{UIlongtable}.
1068 \newcommand{\UIlongtablecaption}[1]{\def\UI@lt@caption{#1}}
1069 \newcommand{\UIlongtablelabel}[1]{\def\UI@lt@label{#1}}
1070 \newcommand{\UIlongtablecols}[1]{\def\UI@lt@cols{#1}}
1071 \newcommand{\UIlongtablefirsthead}[1]{\def\UI@lt@firsthead{#1}}
1072 \newcommand{\UIlongtablehead}[1]{\def\UI@lt@head{#1}}
1073 \newcommand{\UIlongtabletail}[1]{\def\UI@lt@tail{#1}}
1074 \newcommand{\UIlongtablelasttail}[1]{\def\UI@lt@lasttail{#1}}
1075 \def\UI@lt@caption{}\def\UI@lt@label{}\def\UI@lt@cols{}
1076 \def\UI@lt@firsthead{}\def\UI@lt@head{}\def\UI@lt@tail{}\def\UI@lt@lasttail{}
1077
1078 \NewDocumentEnvironment{UIlongtable}{m}{%

```

```

1079 \if@UITwocolumn
1080 % Two-column (journal): mpsupertabular wraps each chunk in a \columnwidth
1081 % minipage and restores \leftskip/\rightskip from the outer \centering,
1082 % so every continuation chunk is properly centered. \tablecaption calls
1083 % \refstepcounter{table} eagerly, so \label must follow it.
1084 \ifx\UI@lt@caption\@empty\else
1085   \tablecaption{\UI@lt@caption}%
1086   \ifx\UI@lt@label\@empty\else\label{\UI@lt@label}\fi
1087 \fi
1088 \tablefirsthead{\UI@lt@firsthead}%
1089 % Judul sambungan untuk supertabular dua-kolom.
1090 % Pakai jarak bawah 10pt agar selaras dengan caption native supertabular.
1091 \ifx\UI@lt@cols\@empty
1092   \tablehead{\UI@lt@head}%
1093 \else
1094   \tablehead{%
1095     \multicolumn{\UI@lt@cols}{c}{%
1096       \makebox[0pt][c]{\strut\tablename~\thetable: \UI@lt@caption~(sambungan)\strut}} \\\
1097     \noalign{\vskip \UI@lt@continuedCaptionGap}%
1098     \UI@lt@head}%
1099 \fi
1100 \tabletail{\UI@lt@tail}%
1101 \tablelasttail{\UI@lt@lasttail}%
1102 \par\vspace{\LTpre}%
1103 \centering
1104 \begin{mpsupertabular}{#1}%
1105 \else
1106 % One-column (monograph): longtable handles page breaks natively.
1107 % \LTleft and \LTRight are set via \AtBeginEnvironment{longtable} below.
1108 \begin{longtable}{#1}%
1109   \ifx\UI@lt@caption\@empty\else
1110     \caption{\UI@lt@caption}%
1111     \ifx\UI@lt@label\@empty\else\label{\UI@lt@label}\fi
1112   \\\
1113   \fi
1114   \UI@lt@firsthead
1115   \endfirsthead
1116   % Samakan perilaku dengan longtable asli: pakai caption lanjutan.
1117   \ifx\UI@lt@cols\@empty\else
1118     \ifx\UI@lt@caption\@empty\else
1119       \caption[]{\UI@lt@caption~(sambungan)}\\
1120     \fi
1121   \fi
1122   \UI@lt@head
1123   \endhead
1124   \UI@lt@tail
1125   \endfoot
1126   \UI@lt@lasttail
1127   \endlastfoot
1128 \fi
1129 }{%
1130 \if@UITwocolumn
1131   \end{mpsupertabular}%
1132   \vspace{\LTpost}%

```

```

1133 \else
1134 \end{longtable}%
1135 \fi
1136 \def\UI@lt@caption{}\def\UI@lt@label{}\def\UI@lt@cols{}%
1137 \def\UI@lt@firsthead{}\def\UI@lt@head{}%
1138 \def\UI@lt@tail{}\def\UI@lt@lasttail{}%
1139 }
1140
1141 %=====
1142 % TATA LETAK ISI: GAYA HALAMAN (fancyhdr)
1143 %=====
1144
1145 \newcommand{\UI@syncPageStyleWidth}{\setlength{\headwidth}{\textwidth}}
1146 \UI@syncPageStyleWidth
1147
1148 \renewcommand{\headrulewidth}{0.0pt}
1149 \fancyhf{}
1150
1151 \fancypagestyle{onlypage}{%
1152 \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{}%
1153 \fancyfoot[L]{}\fancyfoot[C]{\UI@pageNumberText}\fancyfoot[R]{}
1154 }
1155
1156 \if@UImonograph
1157 % Render helper based on physical page side (current page = shipped+1).
1158 % This keeps header/footer side placement stable even when some blank pages
1159 % are intentionally excluded from logical page numbering.
1160 \newcommand{\UI@showOnPhysOdd}[1]{%
1161 \ifodd\numexpr\value{UI@physicalpage}+1\relax #1\fi
1162 }
1163 \newcommand{\UI@showOnPhysEven}[1]{%
1164 \ifodd\numexpr\value{UI@physicalpage}+1\relax\else #1\fi
1165 }
1166
1167 \fancypagestyle{plain}{%
1168 \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{}%
1169 \renewcommand{\headrulewidth}{0.0pt}%
1170 \fancyfoot[C]{\UI@pageNumberText}%
1171 \ifUI@twosideprint\else
1172 \fancyfoot[R]{\UI@footerText}%
1173 \fi
1174 \renewcommand{\footrulewidth}{0.0pt}%
1175 }
1176 \fancypagestyle{standard}{%
1177 \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{}%
1178 \renewcommand{\headrulewidth}{0.0pt}%
1179 \fancyfoot[C]{}%
1180 \ifUI@twosideprint
1181 \fancyfoot[L]{\UI@showOnPhysEven{\UI@footerText}}%
1182 \fancyfoot[R]{\UI@showOnPhysOdd{\UI@footerText}}%
1183 \else
1184 \fancyfoot[R]{\UI@footerText}%
1185 \fi
1186 \renewcommand{\footrulewidth}{0.0pt}%

```

```

1187 }
1188 \fancypagestyle{first-pages}{%
1189   \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{}%
1190   \renewcommand{\headrulewidth}{0.0pt}%
1191   \fancyfoot[C]{\UI@pageNumberText}%
1192   \ifUI@twosideprint
1193     \fancyfoot[L]{\UI@showOnPhysEven{\UI@footerText}}%
1194     \fancyfoot[R]{\UI@showOnPhysOdd{\UI@footerText}}%
1195   \else
1196     \fancyfoot[R]{\UI@footerText}%
1197   \fi
1198   \renewcommand{\footrulewidth}{0.0pt}%
1199 }
1200
1201 \newcommand{\setfirstheaderfooter}{%
1202   \fancyhead{}%
1203   \fancyfoot{}%
1204   \fancyfoot[C]{\UI@pageNumberText}%
1205   \fancyfoot[R]{\UI@footerText}%
1206 }
1207 \newcommand{\setoddevenheader}{%
1208   \fancyhead{}%
1209   \ifUI@twosideprint
1210     \fancyhead[L]{\UI@showOnPhysEven{\UI@pageNumberText}}%
1211     \fancyhead[R]{\UI@showOnPhysOdd{\UI@pageNumberText}}%
1212   \else
1213     \fancyhead[R]{\UI@pageNumberText}%
1214   \fi
1215 }
1216 \newcommand{\setoddevenfooter}{%
1217   \fancyfoot{}%
1218   \ifUI@twosideprint
1219     \fancyfoot[L]{\UI@showOnPhysEven{\UI@footerText}}%
1220     \fancyfoot[R]{\UI@showOnPhysOdd{\UI@footerText}}%
1221   \else
1222     \fancyfoot[R]{\UI@footerText}%
1223   \fi
1224 }
1225
1226 \else
1227 % Jurnal: halaman depan pakai romawi bawah tengah + UI kanan bawah.
1228 % Halaman konten: nomor kanan atas (arab, lanjut dari romawi) + UI kanan bawah.
1229 % Halaman abstrak/judul: tanpa nomor, UI kanan bawah.
1230 % Samakan gaya 'plain' dengan halaman konten jurnal agar halaman awal bab
1231 % tidak turun ke nomor bawah-tengah.
1232 \fancypagestyle{plain}{%
1233   \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{\UI@pageNumberText}%
1234   \renewcommand{\headrulewidth}{0.0pt}%
1235   \fancyfoot[L]{}\fancyfoot[C]{}\fancyfoot[R]{\UI@footerText}%
1236   \renewcommand{\footrulewidth}{0.0pt}%
1237 }
1238 \fancypagestyle{standard}{%
1239   \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{\UI@pageNumberText}%
1240   \renewcommand{\headrulewidth}{0.0pt}%

```

```

1241 \fancyfoot[L]{}\fancyfoot[C]{}\fancyfoot[R]{\UI@footerText}%
1242 \renewcommand{\footrulewidth}{0.0pt}%
1243 }
1244 % Halaman depan romawi (orisinalitas, pengesahan, AI, publikasi)
1245 \fancypagestyle{journal-front}{%
1246 \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{}%
1247 \renewcommand{\headrulewidth}{0.0pt}%
1248 \fancyfoot[L]{}\fancyfoot[C]{\UI@pageNumberText}\fancyfoot[R]{}%
1249 \renewcommand{\footrulewidth}{0.0pt}%
1250 }
1251 % Halaman abstrak/judul: nomor tengah bawah, UI kanan bawah
1252 \fancypagestyle{first-pages}{%
1253 \fancyhead[L]{}\fancyhead[C]{}\fancyhead[R]{}%
1254 \renewcommand{\headrulewidth}{0.0pt}%
1255 \fancyfoot[L]{}\fancyfoot[C]{\UI@pageNumberText}\fancyfoot[R]{\UI@footerText}%
1256 \renewcommand{\footrulewidth}{0.0pt}%
1257 }
1258
1259 % Stub format jurnal
1260 \newcommand{\setoddevenheader}{}
1261 \newcommand{\setfirstheaderfooter}{}
1262 \newcommand{\setoddevenfooter}{}
1263 \fi
1264
1265 \ifUI@plagiarismcheck
1266 \fancypagestyle{onlypage}{\fancyhf{}}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}
1267 \fancypagestyle{plain}{\fancyhf{}}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}
1268 \fancypagestyle{standard}{\fancyhf{}}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}
1269 \fancypagestyle{first-pages}{\fancyhf{}}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}
1270 \fancypagestyle{journal-front}{\fancyhf{}}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}
1271 \fi
1272
1273
1274 %=====
1275 % TATA LETAK ISI: PENGELOLAAN BAB & HALAMAN
1276 %=====
1277
1278 \newif\ifUI@chapterautoclearenabled
1279 \UI@chapterautoclearenabledfalse
1280 \newif\ifUI@chapterstarted
1281 \UI@chapterstartedfalse
1282
1283 % Jurnal dua kolom: seimbangkan kolom sebelum \clearpage paksa
1284 % (mis. dari \include dan transisi UIfullwidthpages/UIlandscape).
1285 \if@UITwocolumn
1286 \let\UI@origclearpage\clearpage
1287 \renewcommand{\clearpage}{%
1288 \if@twocolumn
1289 \balance
1290 \UI@origclearpage
1291 \nobalance
1292 \else
1293 \UI@origclearpage
1294 \fi

```

```

1295 }
1296 \fi
1297
1298 \if@UImonograph
1299 \newcommand{\clearchapter}{%
1300 \clearpage
1301 \ifUI@twosideprint
1302 % Bugfix: UI@physicalpage now reflects the truly last shipped page (all
1303 % pending floats have been flushed by \clearpage above).
1304 \ifodd\value{UI@physicalpage}%
1305 \null
1306 \thispagestyle{empty}%
1307 \addtocounter{page}{-1}%
1308 \newpage
1309 \fi
1310 \fi
1311 \setoddevenheader
1312 \setoddevenfooter
1313 }
1314 \newcommand{\forceclearchapter}{%
1315 \clearpage
1316 \ifUI@twosideprint
1317 \null
1318 \thispagestyle{empty}%
1319 \addtocounter{page}{-1}%
1320 \newpage
1321 \fi
1322 }
1323 \newcommand{\UI@insertdummyblank}{%
1324 \ifUI@twosideprint
1325 \ifodd\value{UI@physicalpage}
1326 \forceclearchapter
1327 \fi
1328 \fi
1329 }
1330 \newcommand{\UI@insertdummyblankonlypage}{%
1331 \ifUI@twosideprint
1332 \ifodd\value{UI@physicalpage}
1333 \forceclearchapter
1334 \thispagestyle{onlypage}%
1335 \fi
1336 \fi
1337 }
1338
1339 % Aktifkan perilaku \clearchapter otomatis lewat \chapter setelah frontmatter.
1340 \let\UI@basechapter\chapter
1341 \renewcommand{\chapter}{%
1342 \ifUI@chapterautoclearenabled
1343 \ifUI@chapterstarted
1344 \clearchapter
1345 \else
1346 \global\UI@chapterstartedtrue
1347 \fi
1348 \fi

```

```

1349 \UI@basechapter
1350 }
1351 \fi
1352
1353 \newcommand\blankpage{%
1354 \clearpage
1355 \ifUI@twosideprint
1356 \thispagestyle{empty}%
1357 \addtocounter{page}{-1}%
1358 \null
1359 \clearpage
1360 \fi
1361 }
1362
1363
1364 %=====
1365 % TATA LETAK ISI: DESAIN SPASI VERTIKAL DOKUMEN
1366 %=====
1367 % Untuk penyesuaian, ubah nilai default pada \UI@setDocumentSpacingDefaults.
1368
1369 %--- Halaman Sampul dan Halaman Judul Dalam -----%
1370 \newlength{\UI@title@metaRowGap}
1371 \newlength{\UI@coverLogoToUniversityGap}
1372 \newlength{\UI@coverUniversityToTitleGap}
1373 \newlength{\UI@coverTitleToSubtitleGap}
1374 \newlength{\UI@coverSubtitleToAuthorGap}
1375 \newlength{\UI@titleInsideSubtitleToBodyGap}
1376
1377 %--- Ritme umum halaman wajib (heading dan antar-bagian) -----%
1378 \newlength{\UI@frontpage@topskip}
1379 \newlength{\UI@frontpage@afterskip}
1380 \newlength{\UI@frontpage@sectionGapXS}
1381 \newlength{\UI@frontpage@sectionGapS}
1382 \newlength{\UI@frontpage@sectionGapM}
1383 \newlength{\UI@frontpage@sectionGapL}
1384
1385 %--- Ritme blok tanda tangan lintas halaman wajib -----%
1386 \newlength{\UI@frontpage@bodyTopGap}
1387 \newlength{\UI@frontpage@bodyToSignatureGap}
1388 \newlength{\UI@frontpage@signatureDateGap}
1389
1390 %--- Lembar Pengesahan (metadata, pernyataan, dan tabel dewan) -----%
1391 \newlength{\UI@approval@metaToStatementGap}
1392 \newlength{\UI@approval@statementToBoardGap}
1393 \newlength{\UI@approval@boardRuleToNameGap}
1394 \newlength{\UI@approval@boardNameToRoleGap}
1395 \newlength{\UI@approval@boardHeaderToRowsGap}
1396 \newlength{\UI@approval@boardInterRowGap}
1397 \newlength{\UI@approval@multiAuthorStudyGap}
1398 \newlength{\UI@approval@mbkmStatementToBoardGap}
1399
1400 %--- Surat Pernyataan -----%
1401 \newlength{\UI@suratParagraphGap}
1402 \newlength{\UI@suratHeadingTopskip}

```

```

1403 \newlength{\UI@suratHeadingAfterSkip}
1404 \newlength{\UI@suratIdentityToMetaGap}
1405
1406 %--- Kata Pengantar -----%
1407 \newlength{\UI@kataPengantarDateToNameGap}
1408 \newlength{\UI@kataPengantarSingleAuthorSignGap}
1409
1410 %--- Persetujuan Publikasi -----%
1411 \newlength{\UI@publikasiHeadingAfterGap}
1412 \newlength{\UI@publikasiRuleInnerGap}
1413
1414 %--- Abstrak/Abstract format jurnal -----%
1415 \newlength{\UI@journalTitleToStudyGap}
1416 \newlength{\UI@journalStudyToAbstrakGap}
1417 \newlength{\UI@journalAbstrakToKeywordsGap}
1418 \newlength{\UI@journalKeywordsToAbstractGap}
1419 \newlength{\UI@journalAbstractToKeywordsGap}
1420
1421 %--- Abstrak format monograf -----%
1422 \newlength{\UI@abstrakMonoMetaToBodyGap}
1423 \newlength{\UI@abstrakMonoBodyToKeywordsGap}
1424 \newlength{\UI@abstrakMonoAfterKeywordsGap}
1425
1426 %--- Abstract format monograf -----%
1427 \newlength{\UI@abstractMonoMetaToBodyGap}
1428 \newlength{\UI@abstractMonoBodyToKeywordsGap}
1429 \newlength{\UI@abstractMonoAfterKeywordsGap}
1430
1431 %--- Halaman daftar (Daftar Isi/Gambar/Tabel/Kode/Persamaan/Lampiran) -----%
1432 \newlength{\UI@listChapterSeparatorSkip}
1433 \newlength{\UI@frontmatterTocPreskip}
1434 \newlength{\UI@lt@continuedCaptionGap}
1435
1436 %--- Materi belakang: separator lampiran dan header lampiran -----%
1437 \newlength{\UI@lampiranHeaderLineGap}
1438 \newlength{\UI@appendixSeparatorTopGap}
1439
1440 \newcommand{\UI@setDocumentSpacingDefaults}{%
1441 % Halaman Sampul dan Halaman Judul Dalam
1442 \setlength{\UI@title@metaRowGap}{0.3cm}%
1443 \setlength{\UI@coverLogoToUniversityGap}{-0.25cm}%
1444 \setlength{\UI@coverUniversityToTitleGap}{0.5cm}%
1445 \setlength{\UI@coverTitleToSubtitleGap}{0.8cm}%
1446 \setlength{\UI@coverSubtitleToAuthorGap}{0.5cm}%
1447 \setlength{\UI@titleInsideSubtitleToBodyGap}{0.3cm}%
1448
1449 % Ritme umum halaman wajib (heading dan antar-bagian)
1450 \setlength{\UI@frontpage@topskip}{0pt}%
1451 \setlength{\UI@frontpage@afterskip}{20p0}%
1452 \setlength{\UI@frontpage@sectionGapXS}{0.1cm}%
1453 \setlength{\UI@frontpage@sectionGapS}{0.2cm}%
1454 \setlength{\UI@frontpage@sectionGapM}{0.4cm}%
1455 \setlength{\UI@frontpage@sectionGapL}{0.6cm}%
1456

```

```

1457 % Ritme blok tanda tangan lintas halaman wajib
1458 \setlength{UI@frontpage@bodyTopGap}{2cm}%
1459 \setlength{UI@frontpage@bodyToSignatureGap}{2.6cm}%
1460 \setlength{UI@frontpage@signatureDateGap}{1.8cm}%
1461
1462 % Lembar Pengesahan (metadata, pernyataan, dan tabel dewan)
1463 \setlength{UI@approval@metaToStatementGap}{1.0cm}%
1464 \setlength{UI@approval@statementToBoardGap}{1.0cm}%
1465 \setlength{UI@approvalBoardRuleToNameGap}{-0.2em}%
1466 \setlength{UI@approvalBoardNameToRoleGap}{0.8em}%
1467 \setlength{UI@approvalBoardHeaderToRowsGap}{0.3cm}%
1468 \setlength{UI@approvalBoardInterRowGap}{-0.5em}%
1469 \setlength{UI@approvalMultiAuthorStudyGap}{0.2cm}%
1470 \setlength{UI@approvalMBKMStatementToBoardGap}{2cm}%
1471
1472 % Surat Pernyataan
1473 \setlength{UI@suratParagraphGap}{0.6\baselineskip}%
1474 \setlength{UI@suratHeadingTopskip}{0.15cm}%
1475 \setlength{UI@suratHeadingAfterSkip}{24\p@}%
1476 \setlength{UI@suratIdentityToMetaGap}{0.2cm}%
1477
1478 % Kata Pengantar
1479 \setlength{UI@kataPengantarDateToNameGap}{0.1cm}%
1480 \setlength{UI@kataPengantarSingleAuthorSignGap}{1.5cm}%
1481
1482 % Persetujuan Publikasi
1483 \setlength{UI@publikasiHeadingAfterGap}{8\p@}%
1484 \setlength{UI@publikasiRuleInnerGap}{1pt}%
1485
1486 % Abstrak/Abstract format jurnal
1487 \setlength{UI@journalTitleToStudyGap}{0pt}%
1488 \setlength{UI@journalStudyToAbstrakGap}{0.4cm}%
1489 \setlength{UI@journalAbstrakToKeywordsGap}{0.2cm}%
1490 \setlength{UI@journalKeywordsToAbstractGap}{0.2cm}%
1491 \setlength{UI@journalAbstractToKeywordsGap}{0.2cm}%
1492
1493 % Abstrak format monograf
1494 \setlength{UI@abstrakMonoMetaToBodyGap}{0.5cm}%
1495 \setlength{UI@abstrakMonoBodyToKeywordsGap}{0.1cm}%
1496 \setlength{UI@abstrakMonoAfterKeywordsGap}{0.2cm}%
1497
1498 % Abstract format monograf
1499 \setlength{UI@abstractMonoMetaToBodyGap}{0.5cm}%
1500 \setlength{UI@abstractMonoBodyToKeywordsGap}{0.1cm}%
1501 \setlength{UI@abstractMonoAfterKeywordsGap}{0.2cm}%
1502
1503 % Halaman daftar (Daftar Isi/Gambar/Tabel/Kode/Persamaan/Lampiran)
1504 \setlength{UI@listChapterSeparatorSkip}{10\p@}%
1505 \setlength{UI@frontmatterTocPreskip}{-1em}%
1506 \setlength{UI@lt@continuedCaptionGap}{10\p@}%
1507
1508 % Materi belakang: separator lampiran dan header lampiran
1509 \setlength{UI@lampiranHeaderLineGap}{1em}%
1510 \setlength{UI@appendixSeparatorTopGap}{6cm}%

```

```

1511 }
1512 \UI@setDocumentSpacingDefaults
1513
1514
1515 %=====
1516 % TATA LETAK ISI: PENAMAAN & INTERNASIONALISASI
1517 %=====
1518
1519 % \UI@jenjang@display: jenjang dalam bahasa tampilan yang sesuai
1520 \if@UIenglish
1521 \strcompare{Sarjana}{\UI@jenjang}{%
1522 \def\UI@jenjang@display{Bachelor's}%
1523 }{%
1524 \strcompare{Magister}{\UI@jenjang}{%
1525 \def\UI@jenjang@display{Master's}%
1526 }{%
1527 \def\UI@jenjang@display{Doctoral}%
1528 }%
1529 }%
1530 \else
1531 \let\UI@jenjang@display\UI@jenjang
1532 \fi
1533
1534 % Metadata bilingual values (Indonesian + English).
1535 \def\fakultasID{}
1536 \def\fakultasEN{}
1537 \def\UI@typeNameID{\UI@type}
1538 \strcompare{Skripsi}{\UI@type}{%
1539 \def\UI@typeNameEN{Bachelor Thesis}%
1540 }{%
1541 \strcompare{Tesis}{\UI@type}{%
1542 \def\UI@typeNameEN{Thesis}%
1543 }{%
1544 \strcompare{Disertasi}{\UI@type}{%
1545 \def\UI@typeNameEN{Dissertation}%
1546 }{%
1547 \strcompare{Laporan Kerja Praktik}{\UI@type}{%
1548 \def\UI@typeNameEN{Internship Report}%
1549 }{%
1550 \strcompare{Kampus Merdeka}{\UI@type}{%
1551 \def\UI@typeNameEN{Kampus Merdeka Report}%
1552 }{%
1553 \let\UI@typeNameEN\UI@type
1554 }%
1555 }%
1556 }%
1557 }%
1558 }%
1559
1560 \if@UIenglish
1561 \let\UI@type@display\UI@typeNameEN
1562 \def\UI@facultyDisplay{\fakultasEN}
1563 \def\UI@label@sampulJudul{\MakeUppercase{\UI@type@display}}%
1564 \def\UI@label@halamanJudul{Title Page}

```

```

1565 \def\UI@label@orisinalitas{Statement of Originality}
1566 \def\UI@label@pengesahan{Approval Page}
1567 \def\UI@label@pengesahanKP{Internship Supervisor Approval Page}
1568 \def\UI@label@pengesahanMBKM{Supervisor Approval Page}
1569 \def\UI@label@pernyataanAI{Statement of Artificial Intelligence Use}
1570 \def\UI@label@suratPernyataan{Declaration Letter}
1571 \def\UI@label@kataPengantar{Preface}
1572 \def\UI@label@publikasi{Agreement for Scientific Work Publication}
1573 \def\UI@label@abstrak{Abstract}
1574 \def\UI@label@orisinalitasHead{Statement of Originality}
1575 \def\UI@label@publikasiHead{Agreement for Publication\of Academic Work for Academic Inter
1576 \def\UI@label@submitted{submitted by}
1577 \def\UI@label@gelarText{as one of the requirements to obtain the degree of}
1578 \def\UI@label@examBoard{BOARD OF EXAMINERS}
1579 \def\UI@label@supervisor{Supervisor}
1580 \def\UI@label@coSupervisor{Co-supervisor}
1581 \def\UI@label@examiner{Examiner}
1582 \def\UI@label@setAt{Set in}
1583 \def\UI@label@date{Date}
1584 \def\UI@label@signatureDate{Date}
1585 \def\UI@label@originBody{This \UI@type@display{}~is the result of \UI@IfSingleAuthor{my}{o
1586 and all sources, whether quoted or referenced, \
1587 have been declared correctly.}
1588 \def\UI@label@aiBodyNone{\UI@IfSingleAuthor{I}{We}~declare that in the preparation of this
1589 use any Artificial Intelligence technology in any form.}
1590 \def\UI@label@aiBodyUsed{\UI@IfSingleAuthor{I}{We}~declare that in the preparation of this
1591 \UI@IfSingleAuthor{I}{We}~used Artificial Intelligence technology on the platform \UI@ai
1592 for the purpose of \UI@tujuanai{} \
1593 and \UI@IfSingleAuthor{I}{we}~take full responsibility for the accuracy, originality, \
1594 and integrity of all content of this \UI@type@display{.}.}
1595 \def\UI@label@pubBody{As a member of the academic community of Universitas Indonesia,
1596 \UI@IfSingleAuthor{I}{we}
1597 the undersigned:}
1598 \def\UI@label@pubMiddle{for the development of science, agree to grant
1599 to Universitas Indonesia a \bo{Non-exclusive Royalty Free Right}
1600 over \UI@IfSingleAuthor{my}{our}~academic work entitled:}
1601 \def\UI@label@pubEnd{together with the associated tools (if required).
1602 Under this Non-exclusive Royalty Free Right, Universitas Indonesia is entitled
1603 to store, convert/format, manage in a database, maintain, and publish the final
1604 project while still crediting
1605 \UI@IfSingleAuthor{me}{us}~as the author/creator and copyright holder.
1606 \par\noindent
1607 This statement \UI@IfSingleAuthor{I}{we}~make truthfully.}
1608 \def\UI@label@pubCity{Made in}
1609 \def\UI@label@pubSignDate{On date}
1610 \def\UI@label@pubSigner{The undersigned}
1611 \def\UI@label@academicYear{Academic Year}
1612 \def\UI@label@suratPernyataanBody{The undersigned, \UI@IfSingleAuthor{I}{we} declare:}
1613 \def\UI@label@suratPernyataanPlagiarism{that \UI@IfSingleAuthor{I do not}{we do not} commi
1614 \def\UI@label@suratPernyataanSanction{If plagiarism is proven in the future, \UI@IfSingleA
1615 \def\UI@label@suratPernyataanClosing{This declaration is made truthfully.}
1616 \def\UI@label@authorName{Name}
1617 \def\UI@label@authorNPM{NPM}
1618 \def\UI@label@authorSig{Signature}

```

```

1619 \def\UI@label@studyProgram{Study Program}
1620 \def\UI@label@studyProgramOf{Study Program of}
1621 \def\UI@label@workType{Type of Work}
1622 \def\UI@label@title{Title}
1623 % Labels for front-matter bodies
1624 \def\UI@label@authorPrefix{Author}
1625 \def\UI@label@teamWriters{The Authors}
1626 \def\UI@label@promotor{Promotor}
1627 \def\UI@label@kopromotor{Co-promotor}
1628 \def\UI@label@examinerTeam{Examiners}
1629 \def\UI@label@examChair{Chair}
1630 \def\UI@label@examMember{Member}
1631 \def\UI@label@approvedBody{Has been successfully defended before the Board of Examiners
1632 and accepted as part of the requirements to obtain the \UI@jenjang@display{}~degree
1633 in the Study Program of \studyProgramSatu, \UI@facultyDisplay,
1634 Universitas Indonesia.}
1635 \def\UI@label@approvedBodyKP{Has successfully completed the internship report
1636 for \UI@facultyDisplay~and presented their internship results
1637 as a requirement for the Internship course.}
1638 \def\UI@label@kpSupervisorTitle{INTERNSHIP COURSE LECTURER}
1639 \def\UI@label@mbkmSubmitted{This Kampus Merdeka Activity Report}
1640 \def\UI@label@approvedBodyMBKM{Has successfully completed the \UI@kampusMerdekaType{}
1641 program under the Kampus Merdeka scheme, submitted a final report to the
1642 \UI@facultyDisplay, and presented their work as a requirement for the
1643 transfer of credit units (SKS) from the activity.}
1644 \def\UI@label@mbkmSupervisorTitle{Academic Supervisor for}
1645 \def\UI@label@source{Source:}
1646 \else
1647 \let\UI@type@display\UI@typeNameID
1648 \def\UI@facultyDisplay{\fakultasID}
1649 \def\UI@label@sampulJudul{MakeUppercase{\UI@type@display}}
1650 \def\UI@label@halamanJudul{Halaman Judul}
1651 \def\UI@label@orisinalitas{Halaman Orisinalitas}
1652 \def\UI@label@pengesahan{Halaman Pengesahan}
1653 \def\UI@label@pengesahanKP{Halaman Persetujuan Dosen Kerja Praktik}
1654 \def\UI@label@pengesahanMBKM{Halaman Persetujuan Penyelia}
1655 \def\UI@label@pernyataanAI{Halaman Pernyataan Penggunaan Kecerdasan Artifisial}
1656 \def\UI@label@suratPernyataan{Surat Pernyataan}
1657 \def\UI@label@kataPengantar{Kata Pengantar}
1658 \def\UI@label@publikasi{Halaman Persetujuan Karya Ilmiah}
1659 \def\UI@label@abstrak{Abstrak}
1660 \def\UI@label@orisinalitasHead{Halaman Pernyataan Orisinalitas}
1661 \def\UI@label@publikasiHead{Halaman Pernyataan Persetujuan Publikasi\\Tugas Akhir untuk Ke
1662 \def\UI@label@submitted{diajukan oleh}
1663 \def\UI@label@gelarText{Diajukan sebagai salah satu syarat untuk memperoleh gelar}
1664 \def\UI@label@examBoard{DEWAN PENGUJI}
1665 \def\UI@label@supervisor{Pembimbing}
1666 \def\UI@label@coSupervisor{Pembimbing}
1667 \def\UI@label@examiner{Penguji}
1668 \def\UI@label@setAt{Ditetapkan di}
1669 \def\UI@label@date{Tanggal}
1670 \def\UI@label@signatureDate{Tanggal}
1671 \def\UI@label@originBody{\UI@type@display{}~ini adalah hasil karya~\UI@ifSingleAuthor{saya
1672 dan semua sumber baik yang dikutip maupun dirujuk \\

```

```

1673 telah~\UI@ifSingleAuthor{saya}{kami}~nyatakan dengan benar.}
1674 \def\UI@label@aiBodyNone{\UI@ifSingleAuthor{Saya}{Kami}~menyatakan bahwa dalam
1675 penyusunan \UI@type@display{~}~ini, \UI@ifSingleAuthor{saya}{kami}~tidak \
1676 menggunakan teknologi Kecerdasan Buatan dalam bentuk apa pun.}
1677 \def\UI@label@aiBodyUsed{\UI@ifSingleAuthor{Saya}{Kami}~menyatakan bahwa dalam penyusunan
1678 \UI@ifSingleAuthor{saya}{kami}~menggunakan teknologi Kecerdasan Buatan dengan
1679 platform \UI@aiplatform{~}~untuk tujuan \UI@tujuanai{~}
1680 dan \UI@ifSingleAuthor{saya}{kami}~bertanggung jawab penuh atas keakuratan, orisinalitas
1681 dan integritas seluruh isi \UI@type@display{~}~ini.}
1682 \def\UI@label@pubBody{Sebagai sivitas akademik Universitas Indonesia,~\UI@ifSingleAuthor{saya}{kami}~
1683 tangan di bawah ini:}
1684 \def\UI@label@pubMiddle{demi pengembangan ilmu pengetahuan, menyetujui untuk memberikan
1685 kepada Universitas Indonesia \bo{Hak Bebas Royalti Noneksklusif
1686 (\textit{Non-exclusive Royalty Free Right})}~atas karya ilmiah~\UI@ifSingleAuthor{saya}{kami}~
1687 \def\UI@label@pubEnd{beserta perangkat yang ada (jika diperlukan). Dengan Hak Bebas Royalti
1688 Noneksklusif ini Universitas Indonesia berhak menyimpan,
1689 mengalihmedia/formatkan, mengelola dalam bentuk pangkalan data
1690 (\textit{database}), merawat, dan memublikasikan tugas akhir~\UI@ifSingleAuthor{saya}{kami}~
1691 tetap mencantumkan nama~\UI@ifSingleAuthor{saya}{kami}~sebagai penulis/pencipta dan sebagai
1692 pemilik Hak Cipta.
1693 \par\noindent Demikian pernyataan ini~\UI@ifSingleAuthor{saya}{kami}~buat dengan sebenar
1694 \def\UI@label@pubCity{Dibuat di}
1695 \def\UI@label@pubSignDate{Pada tanggal}
1696 \def\UI@label@pubSigner{Yang menyatakan}
1697 \def\UI@label@academicYear{Tahun Akademik}
1698 \def\UI@label@suratPernyataanBody{Yang bertanda tangan di bawah ini, \UI@ifSingleAuthor{saya}{kami}~
1699 \def\UI@label@suratPernyataanPlagiarism{menyatakan bahwa \UI@ifSingleAuthor{saya}{kami}~ti
1700 \def\UI@label@suratPernyataanSanction{Apabila suatu saat nanti terbukti \UI@ifSingleAuthor{saya}{kami}~
1701 \def\UI@label@suratPernyataanClosing{Demikian pernyataan ini \UI@ifSingleAuthor{saya}{kami}~
1702 \def\UI@label@authorName{Nama}
1703 \def\UI@label@authorNPM{NPM}
1704 \def\UI@label@authorSig{Tanda Tangan}
1705 \def\UI@label@studyProgram{Program Studi}
1706 \def\UI@label@studyProgramOf{Program Studi}
1707 \def\UI@label@workType{Jenis Karya}
1708 \def\UI@label@title{Judul}
1709 % Labels for front-matter bodies
1710 \def\UI@label@authorPrefix{Penulis}
1711 \def\UI@label@teamWriters{Tim Penulis}
1712 \def\UI@label@promotor{Promotor}
1713 \def\UI@label@kopromotor{Kopromotor}
1714 \def\UI@label@examinerTeam{Tim Penguji}
1715 \def\UI@label@examChair{Ketua}
1716 \def\UI@label@examMember{Anggota}
1717 \def\UI@label@approvedBody{Telah berhasil dipertahankan di hadapan Dewan Penguji
1718 dan diterima sebagai bagian persyaratan yang diperlukan untuk
1719 memperoleh gelar \UI@jenjang~pada \UI@label@studyProgramOf~\programSatu,
1720 \UI@facultyDisplay, Universitas Indonesia.}
1721 \def\UI@label@approvedBodyKP{Telah berhasil diselesaikan laporan kerja praktik
1722 untuk \UI@facultyDisplay~dan dipresentasikan hasil kerja praktiknya
1723 sebagai persyaratan yang harus dipenuhi dalam mata kuliah Kerja Praktik.}
1724 \def\UI@label@kpSupervisorTitle{DOSEN MATA KULIAH KERJA PRAKTIK}
1725 \def\UI@label@mbkmSubmitted{Laporan Kegiatan Kampus Merdeka ini}
1726 \def\UI@label@approvedBodyMBKM{Telah berhasil menyelesaikan program \UI@kampusMerdekaType{~}

```

```

1727     di bawah Kampus Merdeka, menyusun laporan akhir untuk \UI@facultyDisplay,
1728     dan mempresentasikan hasil pekerjaannya sebagai persyaratan yang harus dipenuhi
1729     untuk melaksanakan transfer Satuan Kredit Semester (SKS) dari kegiatan tersebut.}
1730 \def\UI@label@mbkmSupervisorTitle{Dosen Pembimbing}
1731 \def\UI@label@source{Sumber:}
1732 \fi
1733
1734 % Override nama tampilan tipe karya per bahasa.
1735 \newcommand{\namaTipeTesis}[2]{
1736 \gdef\UI@typeNameID{#1}
1737 \gdef\UI@typeNameEN{#2}
1738 \gdef\UI@type@display{%
1739 \if@UIenglish%
1740 \UI@typeNameEN%
1741 \else%
1742 \UI@typeNameID%
1743 \fi%
1744 }%
1745 }
1746
1747
1748 %=====
1749 % OBJEK ISI: JENIS KOLOM TABEL
1750 %=====
1751
1752 % [P]aragraph -> rata-kiri atas
1753 \newcolumnntype{P}[1]{>\raggedright\arraybackslash}p{#1}}
1754 % middle [L]eft -> rata-kiri tengah
1755 \newcolumnntype{L}[1]{>\raggedright\arraybackslash}m{#1}}
1756 % [B]ottom left -> rata-kiri bawah
1757 \newcolumnntype{B}[1]{>\raggedright\arraybackslash}b{#1}}
1758 % [U]pper centered -> tengah atas
1759 \newcolumnntype{U}[1]{>\centering\arraybackslash}p{#1}}
1760 % middle [C]enter -> tengah-tengah
1761 \newcolumnntype{C}[1]{>\centering\arraybackslash}m{#1}}
1762 % l[O]wer centered -> tengah bawah
1763 \newcolumnntype{O}[1]{>\centering\arraybackslash}b{#1}}
1764 % north [E]ast -> kanan atas
1765 \newcolumnntype{E}[1]{>\raggedleft\arraybackslash}p{#1}}
1766 % middle [R]ight -> kanan tengah
1767 \newcolumnntype{R}[1]{>\raggedleft\arraybackslash}m{#1}}
1768 % [T]enggara -> kanan bawah
1769 \newcolumnntype{T}[1]{>\raggedleft\arraybackslash}b{#1}}
1770
1771 % Tambahan item tabel bergaya bullet
1772 \newcommand{\tabitem}{~~\llap{\textbullet}~~}
1773
1774
1775 %=====
1776 % OBJEK ISI: PERINTAH PENGGUNA
1777 %=====
1778
1779 % Cetak miring
1780 \newcommand{\f}[1]{\textit{#1}}

```

```

1781 % Cetak tebal-miring
1782 \newcommand{\bi}[1]{\textbf{\textit{#1}}}
1783 % Cetak tebal
1784 \newcommand{\bo}[1]{\textbf{#1}}
1785 % Matematika tebal
1786 \newcommand{\m}[1]{\boldmath{ \ ( \ #1 \ ) }}
1787 \newcommand{\mc}[1]{\boldmath{ \ [ \ #1 \ ] }}
1788 % Kode inline
1789 \newcommand{\code}[1]{\texttt{#1}}
1790 % Alias untuk \LaTeX
1791 \newcommand{\latex}{\LaTeX}
1792 % Alias glossary ringkas: gunakan makro jika tersedia, fallback ke \gls.
1793 \newcommand{\glo}[1]{\@ifundefined{#1}{\gls{#1}}{\csname #1\endcsname}}
1794
1795 % Catatan @todo
1796 \newcommand{\todo}[1]{%
1797   \if@UImonograph
1798     \begin{tabular}{| p{\dimexpr\linewidth-16pt\relax} |}%
1799       \rowcolor[rgb]{0.96,0.90,0.90}%
1800       \bo{@todo} \\\%
1801       \rowcolor[gray]{1.}%
1802       #1 \\\%
1803       \\\%
1804       \hline
1805     \end{tabular}%
1806   \else
1807     {\textcolor[rgb]{0.55,0.00,0.00}{\bo{@todo:} #1}}%
1808   \fi
1809 }
1810 \newcommand{\todoCite}{%
1811   \if@UImonograph
1812     \begin{tabular}{| l |}%
1813       \rowcolor[rgb]{0.90,0.96,0.90}%
1814       \bo{@todo} \\\%
1815       \rowcolor[gray]{1.}%
1816       Referensi \\\%
1817       \\\%
1818       \hline
1819     \end{tabular}%
1820   \else
1821     {\textcolor[rgb]{0.00,0.35,0.00}{\bo{@todo:} Referensi}}%
1822   \fi
1823 }
1824
1825 % Sisipkan PDF
1826 \newcommand{\inpdf}[1]{\includepdf[pages=-,pagecommand={\thispagestyle{fancy}}]{#1.pdf}}
1827 \newcommand{\putpdf}[1]{\includepdf[pages=-]{#1.pdf}}
1828
1829 % Variabel baru
1830 \newcommand{\var}[2]{\newcommand{#1}{#2}}
1831 \newcommand{\Var}[2]{\gdef#1{\MakeUppercase{#2}}}
1832
1833 % Caption dengan sumber. Gunakan justification=centering (custom caption
1834 % justification) dan \UI@captionpar agar tetap aman dipakai di longtable.

```

```

1835 \newcommand{\UI@captionpar}{\par}
1836 \newcommand*{\captionsource}[2]{%
1837   \captionsetup{justification=centering,singlelinecheck=false}%
1838   \caption[#1]{#1\UI@captionpar{\fontsize{10}{12}\selectfont(\UI@label@source~#2)}}%
1839 }
1840 \newcommand*{\captionsourcecont}[2]{%
1841   \captionsetup{justification=centering,singlelinecheck=false}%
1842   \caption[] {#1 (sambungan)\UI@captionpar{\fontsize{10}{12}\selectfont(\UI@label@source~#2)}}
1843 }
1844
1845 % Alias penamaan objek
1846 \newcommand{\bab}{Bab}
1847 \newcommand{\sect}{Subbab}
1848 \newcommand{\pic}{Gambar}
1849 \newcommand{\tab}{Tabel}
1850 \newcommand{\equ}{Persamaan}
1851 \newcommand{\lst}{Kode}
1852 \newcommand{\apdx}{Lampiran}
1853
1854
1855 %=====
1856 % FRONT-MATTER LISTS: PEMBANTU DAFTAR ISI (ToC)
1857 %=====
1858
1859 % Save LaTeX's base \addcontentsline before any patching.
1860 \let\UI@latex@addcontentsline\addcontentsline
1861 % Save LaTeX's base \addtocontents for controlled filtering.
1862 \let\UI@latex@addtocontents\addtocontents
1863 % Save LaTeX's base \@writefile so entry counts can be tracked globally.
1864 \let\UI@latex@writefile\@writefile
1865
1866 %--- Per-extension entry counters for conditional list pages ---%
1867 \newcounter{UI@count@lof} % list of figures
1868 \newcounter{UI@count@lot} % list of tables
1869 \newcounter{UI@count@lol} % list of listings
1870 \newcounter{UI@count@loe} % list of equations
1871 \newcounter{UI@count@lox} % list of appendices
1872
1873 \def\UI@listExtRegistry{
1874 \newcommand{\UI@registerListExt}[1]{%
1875   \ifx\UI@listExtRegistry\@empty
1876     \xdef\UI@listExtRegistry{#1}%
1877   \else
1878     \xdef\UI@listExtRegistry{\UI@listExtRegistry,#1}%
1879   \fi
1880 }
1881
1882 % Front-matter list registry: holds custom lists to render inside \makefrontmatter.
1883 % Every \newUIlist entry is enrolled automatically so users only define the list type.
1884 \def\UI@frontmatterListRegistry{
1885
1886 % Helper macro: iterate front-matter registry and render each registered list
1887 % with conditional threshold logic. Entries appear in
1888 % \UI@frontmatterListRegistry as comma-separated extensions.

```

```

1889 \newcommand\UI@renderFrontmatterLists{%
1890   \expandafter\UI@FML@loop\UI@frontmatterListRegistry,\relax,\relax
1891 }
1892 % Recursively process comma-separated registry: #1=ext, #2=remainder including sentinel
1893 \def\UI@FML@loop#1,#2\relax{%
1894   \ifx\relax#1\relax\else
1895     % Render this list if it exists and has entries >= threshold
1896     \ifundefined{UI@UIlist@print@#1}{-}{%
1897       \UI@condListPage{c\csname UI@prev@count@#1\endcsname}%
1898       {\@nameuse{UI@UIlist@print@#1}}%
1899     }%
1900     \ifx\relax#2\relax\else
1901       \expandafter\UI@FML@loop#2\relax
1902     \fi
1903   \fi
1904 }
1905
1906 \UI@registerListExt{lof}
1907 \UI@registerListExt{lot}
1908 \UI@registerListExt{lol}
1909 \UI@registerListExt{loe}
1910 \UI@registerListExt{lox}
1911 \newcommand{\UI@countbyext}[1]{%
1912   \edef\UI@cbe@ext{#1}%
1913   \@ifundefined{c@UI@count@\UI@cbe@ext}{-}{%
1914     \global\advance\csname c@UI@count@\UI@cbe@ext\endcsname\@ne
1915   }%
1916 }
1917
1918 %--- Counting-aware addcontentsline versions ---%
1919 % Contributor note:
1920 % Count list entries at addcontentsline call-sites (instead of @writefile only)
1921 % so counters remain stable even if other packages patch file-writing internals.
1922 \newcommand{\UI@withAddcontentslineFilter}[4]{%
1923   \ifinapp
1924     \ifstrequal{#1}{toc}{%
1925       \ifstrequal{#2}{chapter}{%
1926         % Appendix chapter entries are intentionally omitted from ToC
1927         % because appendices are listed in Daftar Lampiran (LoX).
1928       }{#4}%
1929     }{#4}%
1930   \else
1931     #4%
1932   \fi
1933 }
1934 \newcommand{\UI@addcontentsline}[3]{%
1935   \UI@withAddcontentslineFilter{#1}{#2}{#3}{%
1936     \UI@countbyext{#1}%
1937     \UI@latex@addcontentsline{#1}{#2}{#3}%
1938   }%
1939 }
1940 \newcommand{\UI@ADDCONTENTSLINE}[3]{%
1941   \UI@withAddcontentslineFilter{#1}{#2}{#3}{%
1942     \UI@countbyext{#1}%

```

```

1943     \UI@latex@addcontentsline{#1}{#2}{\uppercase{#3}}%
1944 }%
1945 }
1946
1947 % Toggle chapter-separator spacing in list pages.
1948 % Default: enabled for all lists except Daftar Lampiran (LoX).
1949 \newif\ifUI@listchapterseparatorspace
1950 \UI@listchapterseparatorspace=true
1951 \newlength{\UI@tocchapterseparatorskip}
1952 \setlength{\UI@tocchapterseparatorskip}{\cftbeforechapskip}
1953 \newcommand{\UI@listChapterSeparatorAddvspace}{\protect\addvspace{\UI@listChapterSeparatorSkip}}
1954 \newcommand{\UI@applytocchapterseparatorspace}{%
1955   \ifUI@listchapterseparatorspace
1956     \setlength{\cftbeforechapskip}{\UI@tocchapterseparatorskip}%
1957   \else
1958     \setlength{\cftbeforechapskip}{0pt}%
1959   \fi
1960 }
1961 \newcommand{\enablechapterseparatorspaceinlists}{%
1962   \global\UI@listchapterseparatorspace=true
1963   \UI@applytocchapterseparatorspace
1964 }
1965 \newcommand{\disablechapterseparatorspaceinlists}{%
1966   \global\UI@listchapterseparatorspace=false
1967   \UI@applytocchapterseparatorspace
1968 }
1969
1970 % Chapter-level separator spacing for list files that do not receive it
1971 % from user content declarations (LoF, LoT, LoL, LoE, and user-defined lists).
1972 % Exclusions:
1973 % - lox : appendix list intentionally has no chapter separator spacing.
1974 \newcommand{\UI@addchapterlistseparatorspace}{%
1975   \ifUI@listchapterseparatorspace
1976     \for\UI@ext:=\UI@listExtRegistry\do{%
1977       \ifstrequal{\UI@ext}{lox}{\do}%
1978       \addtocontents{\UI@ext}{\UI@listChapterSeparatorAddvspace}%
1979     }%
1980   }%
1981 \fi
1982 }
1983
1984 % Counting-aware addtocontents with optional suppression for default chapter
1985 % separators in ToC/LoF/LoT when list separator spacing is disabled.
1986 \newcommand{\UI@addtocontents}[2]{%
1987   \ifUI@listchapterseparatorspace
1988     \UI@latex@addtocontents{#1}{#2}%
1989   \else
1990     \ifstrequal{#2}{\UI@listChapterSeparatorAddvspace}{%
1991       \ifstrequal{#1}{toc}{\do}%
1992       \ifstrequal{#1}{lof}{\do}%
1993       \ifstrequal{#1}{lot}{\do}%
1994       \UI@latex@addtocontents{#1}{#2}%
1995     }%
1996   }%

```

```

1997     }%
1998   }{%
1999     \UI@latex@addtocontents{#1}{#2}%
2000   }%
2001 \fi
2002 }
2003
2004 % Count entries at write time so all producers (figure/table/listings/custom)
2005 % are captured consistently.
2006 \newcommand{\UI@writefile}[2]{%
2007   \UI@countbyext{#1}%
2008   \UI@latex@writefile{#1}{#2}%
2009 }
2010 \let\@writefile\UI@writefile
2011
2012 % Install counting version.
2013 \let\addcontentsline\UI@addcontentsline
2014
2015 \newcommand{\CAPinToC}{\let\addcontentsline\UI@ADDCONTENTSLINE}
2016 \newcommand{\noCAPinToC}{\let\addcontentsline\UI@addcontentsline}
2017
2018 %--- Previous-run entry counts (populated by \AtEndDocument on later runs) ---%
2019 \def\UI@prev@count@lof{0}
2020 \def\UI@prev@count@lot{0}
2021 \def\UI@prev@count@lol{0}
2022 \def\UI@prev@count@loe{0}
2023 \def\UI@prev@count@lox{0}
2024 \def\UI@prev@count@glossary{0}
2025
2026 %--- Minimum-entries threshold (0 = always generate; N>0 = generate if count >= N) ---%
2027 \newcounter{UI@minListEntries}
2028 \setcounter{UI@minListEntries}{0}
2029 \newcommand{\minimumListEntries}[1]{\setcounter{UI@minListEntries}{#1}}
2030
2031 %--- Glossary entry counter (for conditional glossary page) ---%
2032 \if@UImonograph
2033   \newcounter{UI@count@glossary}
2034   \AtBeginDocument{%
2035     \let\UI@orig@newglossaryentry\newglossaryentry
2036     \renewcommand{\newglossaryentry}[2]{%
2037       \stepcounter{UI@count@glossary}%
2038       \UI@orig@newglossaryentry{##1}{##2}%
2039     }%
2040     \let\UI@orig@newacronym\newacronym
2041     \renewcommand{\newacronym}[3]{%
2042       \stepcounter{UI@count@glossary}%
2043       \UI@orig@newacronym{##1}{##2}{##3}%
2044     }%
2045   }%
2046 \fi
2047
2048 %--- Conditional list-page wrapper ---%
2049 % #1 = previous-run count string; #2 = list-page code to execute.
2050 \newcommand{\UI@condListPage}[2]{%

```

```

2051 \ifnum\value{UI@minListEntries}=0\relax
2052   #2%
2053 \else
2054   \ifnum\numexpr#1\relax<\value{UI@minListEntries}\relax
2055   \else
2056     #2%
2057   \fi
2058 \fi
2059 }
2060
2061 % Tebal/biasa untuk entri bab di ToC
2062 \newcommand*{\enableboldchapterintoc}{%
2063   \addtocontents{toc}{\string\renewcommand{\protect\cftchapfont}{\protect\normalfont\protect
2064   \addtocontents{toc}{\string\renewcommand{\protect\cftchappagefont}{\protect\normalfont\pro
2065   \addtocontents{toc}{\string\renewcommand{\protect\cftchapleader}{\protect\bfseries\protect
2066 }
2067 \newcommand*{\disableboldchapterintoc}{%
2068   \addtocontents{toc}{\string\renewcommand{\protect\cftchappagefont}{\protect\normalfont}}%
2069   \addtocontents{toc}{\string\renewcommand{\protect\cftchapfont}{\protect\normalfont}}%
2070   \addtocontents{toc}{\string\renewcommand{\protect\cftchapleader}{\protect\normalfont\prote
2071 }
2072
2073 % Front-matter ToC entries use a small negative pre-skip to counterbalance
2074 % chapter separator spacing. Disable this adjustment when separator spacing
2075 % is turned off, otherwise entries can visually overlap.
2076 \newcommand{\UI@addfrontmattertocpreskip}{%
2077   \ifUI@listchapterseparatorspacing
2078     \addtocontents{toc}{\protect\addvspace{\UI@frontmatterTocPreskip}}%
2079   \fi
2080 }
2081
2082 % Tambah entri bab ke ToC (dengan reset penghitungan halaman bab)
2083 \newcommand{\addChapter}[1]{%
2084   \setcounter{chapterpagecount}{0}%
2085   \UI@addfrontmattertocpreskip
2086   \phantomsection
2087   \addcontentsline{toc}{chapter}{\uppercase{#1}}%
2088 }
2089 % Tambah entri bab ke ToC (tanpa reset)
2090 \newcommand{\addChapterNoCount}[1]{%
2091   \UI@addfrontmattertocpreskip
2092   \phantomsection
2093   \addcontentsline{toc}{chapter}{\uppercase{#1}}%
2094 }
2095
2096 % Halaman daftar isi bawaan (ToC, LoF, LoT)
2097 \newcommand{\addDefaultListPage}[1]{%
2098   \UI@addfrontmattertocpreskip
2099   \CAPinToC
2100   \phantomsection
2101   \singlespacing
2102   #1%
2103   \thispagestyle{first-pages}%
2104   \UI@restoreMainSpacing%

```

```

2105 }
2106 % Halaman daftar konten kustom
2107 \newcommand{\addCustomListPage}[2]{%
2108   \addChapterNoCount{#2}%
2109   \singlespacing
2110   #1%
2111   \thispagestyle{first-pages}%
2112   \UI@restoreMainSpacing%
2113 }
2114
2115
2116 %=====
2117 % FRONT-MATTER LISTS: DAFTAR KONTEN YANG DAPAT DIKUSTOMISASI PENGGUNA
2118 % \newUIlist{ext}{commandbase}{singularlabel}{listname}
2119 % Contoh: \newUIlist{lotr}{transformationrule}{Aturan Transformasi}
2120 %           {Daftar Aturan Transformasi}
2121 % Mendefinisikan perintah-perintah:
2122 %   \<commandbase>           -> nama jenis objek
2123 %   \listof<commandbase>     -> cetak daftar
2124 %   \listof<commandbase>name -> judul daftar
2125 %   \caption<commandbase>{judul} -> caption + entri ke daftar
2126 %   \captionsource<commandbase>{j}{s} -> caption+sumber + entri ke daftar
2127 %   \caption<commandbase>cont{j} -> caption sambungan
2128 %   \captionsource<commandbase>cont{j}{s} -> caption sambungan+sumber
2129 %=====
2130
2131 %--- \newUIlist: register a user-defined list type -----%
2132 \newcommand{\newUIlist}[4]{%
2133   % #1 = ext (file extension, e.g. lotr)
2134   % #2 = commandbase (LaTeX name base, e.g. transformationrule)
2135   % #3 = singularlabel (display word, e.g. Aturan Transformasi)
2136   % #4 = listname (list page title, e.g. Daftar Aturan Transformasi)
2137   %
2138   % (a) Store list title for the rendering helper.
2139   \@namedef{UI@UIlistname@#1}{#4}%
2140   %
2141   % (b) Entry counter + conditional front-matter support
2142   \newcounter{UI@count@#1}%
2143   \expandafter\gdef\csname UI@prev@count@#1\endcsname{0}%
2144   \UI@registerListExt{#1}%
2145   \ifx\UI@frontmatterListRegistry\@empty
2146     \xdef\UI@frontmatterListRegistry{#1}%
2147   \else
2148     \xdef\UI@frontmatterListRegistry{\UI@frontmatterListRegistry,#1}%
2149   \fi
2150   %
2151   % (c) Singular word command: \<commandbase>
2152   \@namedef{#2}{#3}%
2153   %
2154   % (d) Define tocloft list (also defines \listof#2name = #4)
2155   \newlistof{#2}{#1}{#4}%
2156   \if@UImonograph\counterwithin{#2}{chapter}\fi%
2157   %
2158   % (e) tocloft formatting (consistent with built-in lists)

```

```

2159 \expandafter\renewcommand\csname cft#2indent\endcsname{0pt}%
2160 % Lebar nomor disesuaikan secara dinamis berdasarkan lebar label + nomor terburuk.
2161 \settowidth\@tempdima{\csname #2\endcsname~99.99.}%
2162 \addtolength\@tempdima{6pt}%
2163 \expandafter\xdef\csname cft#2numwidth\endcsname{\the\@tempdima}%
2164 \expandafter\renewcommand\csname cft#2aftersnum\endcsname{.}%
2165 \expandafter\renewcommand\csname cft#2presnum\endcsname{\csname #2\endcsname~}%
2166 %
2167 % (f) \caption<commandbase>{title}
2168 \expandafter\newcommand\csname caption#2\endcsname[1]{%
2169     \refstepcounter{#2}%
2170     \caption*{\csname #2\endcsname~\@nameuse{the#2}:~##1}%
2171     \addcontentsline{#1}{#2}%
2172     {\protect\numberline{\@nameuse{the#2}}{\ignorespaces ##1}}\par
2173 }%
2174 %
2175 % (g) \captionsource<commandbase>{title}{source}
2176 \expandafter\newcommand\csname captionsource#2\endcsname[2]{%
2177     \refstepcounter{#2}%
2178     \caption*{\centering\csname #2\endcsname~\@nameuse{the#2}:~##1\UI@captionpar
2179         {\fontsize{10}{12}\selectfont(\UI@label@source~##2)}\UI@captionpar}%
2180     \addcontentsline{#1}{#2}%
2181     {\protect\numberline{\@nameuse{the#2}}{\ignorespaces ##1}}\par
2182 }%
2183 %
2184 % (h) \caption<commandbase>cont{title}
2185 \expandafter\newcommand\csname caption#2cont\endcsname[1]{%
2186     \caption*{\csname #2\endcsname~\@nameuse{the#2}:~##1 (sambungan)}%
2187 }%
2188 %
2189 % (i) \captionsource<commandbase>cont{title}{source}
2190 \expandafter\newcommand\csname captionsource#2cont\endcsname[2]{%
2191     \caption*{\centering\csname #2\endcsname~\@nameuse{the#2}:~##1 (sambungan)\UI@captionpar
2192         {\fontsize{10}{12}\selectfont(\UI@label@source~##2)}\UI@captionpar}%
2193 }%
2194 %
2195 % (j) Store print macro for rendering in \makefrontmatter.
2196 \@namedef{UI@UIlist@print@#1}{%
2197     \clearpage
2198     \addCustomListPage{\csname listof#2\endcsname}{\@nameuse{UI@UIlistname@#1}}%
2199 }%
2200 }
2201
2202 %=====
2203 % FRONT-MATTER LISTS: JENIS DAFTAR KUSTOM
2204 %=====
2205
2206 %--- Daftar Persamaan Matematis ---%
2207 \newcommand{\listofequname}{Daftar \equ}
2208 \newlistof{equ}{loe}{\listofequname}
2209 \newcommand{\addequtotoc}[2]{%
2210     \addcontentsline{loe}{equ}{\protect\numberline{\ref{#1}}{\ignorespaces #2}}\par
2211 }
2212 \renewcommand\cftequindent{0pt}

```

```

2213 \renewcommand\cftequnumwidth{75pt}
2214 \renewcommand\cftequaftersnum{.}
2215 \renewcommand\cfteqpresnum{\equ~}
2216
2217 %--- Daftar Kode Program ---%
2218 \newcommand{\listoflistings}{%
2219   \begingroup
2220   \let\UI@orig@addcontentsline\addcontentsline
2221   \def\addcontentsline##1##2##3{%
2222     \let\oldnumberline\numberline
2223     \renewcommand{\numberline}[1]{\hspace{-1.5em}\lst~\oldnumberline{##1.}}%
2224     \lstlistoflistings
2225     \let\addcontentsline\UI@orig@addcontentsline
2226     \endgroup
2227   }
2228
2229
2230 %=====
2231 % FRONT MATTER: ENVIRONMENT PENGUMPUL KONTEN
2232 %=====
2233 %
2234 % Pengguna menempatkan isi dari halaman-halaman wajib di environment berikut
2235 % SEBELUM \begin{document}. Perintah \makefrontmatter yang kemudian
2236 % merangkainya menjadi halaman-halaman tersebut.
2237 %
2238
2239 \def\UI@content@abstrakID{}
2240 \def\UI@content@abstractEN{}
2241 \def\UI@content@kataPengantar{}
2242 \def\UI@content@orisinalitas{}
2243 \def\UI@content@publikasi{}
2244 \def\UI@content@AI{}
2245 \def\UI@content@suratPernyataan{}
2246
2247 % Kata kunci / keywords (kosong secara bawaan; diisi via \katakunci dan \keywords)
2248 \def\UI@keywords@ID{}
2249 \def\UI@keywords@EN{}
2250 \newcommand{\katakunci}[1]{\gdef\UI@keywords@ID{#1}}
2251 \newcommand{\keywords}[1]{\gdef\UI@keywords@EN{#1}}
2252
2253 \NewEnviron{abstrakID}{\global\let\UI@content@abstrakID\BODY}
2254 \NewEnviron{abstractEN}{\global\let\UI@content@abstractEN\BODY}
2255 \NewEnviron{kataPengantar}{\global\let\UI@content@kataPengantar\BODY}
2256 \NewEnviron{pernyataanOrisinalitas}{\global\let\UI@content@orisinalitas\BODY}
2257 \NewEnviron{persetujuanPublikasi}{\global\let\UI@content@publikasi\BODY}
2258 \NewEnviron{pernyataanAI}{\global\let\UI@content@AI\BODY}
2259 \NewEnviron{suratPernyataan}{\global\let\UI@content@suratPernyataan\BODY}
2260 % Helper: heading halaman wajib yang disesuaikan dengan format.
2261 % Monograf: memanggil \@makeschapterhead langsung (tanpa \clearpage dari \chapter*).
2262 % Jurnal: clearpage + judul tengah tebal + jarak vertikal terkendali parameter.
2263 \newcommand{\UI@frontpageHead}[1]{%
2264   \if@UImonograph
2265     \thispagestyle{onlypage}%
2266     \global\@topnum\z@

```

```

2267 \afterindentfalse
2268 \vspace*{\UI@frontpage@topskip}%
2269 \makeschapterhead{#1}%
2270 \afterheading
2271 \else
2272 \clearpage
2273 {\parindent\z@\centering\singlespacing\normalfont\bfseries
2274 \vspace*{\UI@frontpage@topskip}\par
2275 \MakeUppercase{#1}\par
2276 \vskip \UI@frontpage@afterskip}%
2277 \thispagestyle{journal-front}%
2278 \fi
2279 }
2280
2281 %=====
2282 % FRONT MATTER: PENYUSUNAN HALAMAN INTERNAL (\UI@typeset@*)
2283 %=====
2284
2285 % Tabel tanda tangan penulis (dipakai ulang pada halaman Orisinalitas dan AI).
2286 \newcommand{\UI@sigTable}{%
2287 \begin{tabular}{l c l}%
2288 \UI@IfSingleAuthor{%
2289 \bo{\UI@label@authorName} & : & \bo{\penulisSatu} \\
2290 \bo{\UI@label@authorNPM} & & \bo{\npmSatu} \\
2291 \bo{\UI@label@authorSig} & & \\
2292 & & \\
2293 & & \\
2294 }{%
2295 \bo{\UI@label@authorName~1} & : & \bo{\penulisSatu} \\
2296 \bo{\UI@label@authorNPM~1} & & \bo{\npmSatu} \\
2297 \bo{\UI@label@authorSig~1} & & \\
2298 & & \\
2299 & & \\
2300 \bo{\UI@label@authorName~2} & : & \bo{\penulisDua} \\
2301 \bo{\UI@label@authorNPM~2} & & \bo{\npmDua} \\
2302 \bo{\UI@label@authorSig~2} & & \\
2303 & & \\
2304 & & \\
2305 }%
2306 \UI@IfThirdAuthor{%
2307 \bo{\UI@label@authorName~3} & : & \bo{\penulisTiga} \\
2308 \bo{\UI@label@authorNPM~3} & & \bo{\npmTiga} \\
2309 \bo{\UI@label@authorSig~3} & & \\
2310 & & \\
2311 & & \\
2312 }{%
2313 \bo{\UI@label@signatureDate} & : & \bo{\tanggalSiapSidang} \\
2314 \end{tabular}%
2315 }
2316
2317 % Counselor rendering on Abstrak/Abstract must follow work-type limits:
2318 % KP/MBKM: 1, Skripsi/Tesis: up to 2, Disertasi: up to 3.
2319 % The active renderer is selected once and then used directly by the pages.
2320 \newcommand{\UI@abstrakCounselorRowsOne}[1]{%

```

```

2321 #1 & : & \pembimbingSatu \\
2322 }
2323 \newcommand{\UI@abstrakCounselorRowsTwo}[1]{%
2324 #1 & : & \pembimbingSatu \\
2325 \ifx\blank\pembimbingDua\else
2326 \ & \ & \pembimbingDua \\
2327 \fi
2328 }
2329 \newcommand{\UI@abstrakCounselorRowsThree}[1]{%
2330 #1 & : & \pembimbingSatu \\
2331 \ifx\blank\pembimbingDua\else
2332 \ & \ & \pembimbingDua \\
2333 \fi
2334 \ifx\blank\pembimbingTiga\else
2335 \ & \ & \pembimbingTiga \\
2336 \fi
2337 }
2338 \let\UI@abstrakCounselorRows\UI@abstrakCounselorRowsTwo
2339
2340 \newcommand{\UI@abstrakCounselorInlineOne}{%
2341 , \pembimbingSatu%
2342 }
2343 \newcommand{\UI@abstrakCounselorInlineTwo}{%
2344 , \pembimbingSatu%
2345 \ifx\blank\pembimbingDua\else{, \pembimbingDua}\fi%
2346 }
2347 \newcommand{\UI@abstrakCounselorInlineThree}{%
2348 , \pembimbingSatu%
2349 \ifx\blank\pembimbingDua\else{, \pembimbingDua}\fi%
2350 \ifx\blank\pembimbingTiga\else{, \pembimbingTiga}\fi%
2351 }
2352 \let\UI@abstrakCounselorInline\UI@abstrakCounselorInlineTwo
2353
2354 \newcommand{\UI@setupAbstrakCounselorRenderers}{%
2355 \strcompare{Laporan Kerja Praktik}{\UI@type}{%
2356 \let\UI@abstrakCounselorRows\UI@abstrakCounselorRowsOne
2357 \let\UI@abstrakCounselorInline\UI@abstrakCounselorInlineOne
2358 }{%
2359 \strcompare{Kampus Merdeka}{\UI@type}{%
2360 \let\UI@abstrakCounselorRows\UI@abstrakCounselorRowsOne
2361 \let\UI@abstrakCounselorInline\UI@abstrakCounselorInlineOne
2362 }{%
2363 \strcompare{Disertasi}{\UI@type}{%
2364 \let\UI@abstrakCounselorRows\UI@abstrakCounselorRowsThree
2365 \let\UI@abstrakCounselorInline\UI@abstrakCounselorInlineThree
2366 }{%
2367 \let\UI@abstrakCounselorRows\UI@abstrakCounselorRowsTwo
2368 \let\UI@abstrakCounselorInline\UI@abstrakCounselorInlineTwo
2369 }%
2370 }%
2371 }%
2372 }
2373 \UI@setupAbstrakCounselorRenderers
2374

```

```

2375 %--- Sampul ---%
2376 \newcommand{\UI@typeset@sampul}{%
2377   \begin{titlepage}%
2378     \begin{singlespace*}%
2379     \begin{center}%
2380       \begin{figure}%
2381         \begin{center}%
2382           \includegraphics[width=2.5cm]{\UI@makaraimage}%
2383         \end{center}%
2384       \end{figure}%
2385       \vspace*{\UI@coverLogoToUniversityGap}%
2386       \large
2387       \bo{UNIVERSITAS INDONESIA}\[\UI@coverUniversityToTitleGap]%
2388       \vfill
2389       \bo{\if@UIenglishJudulInggris\elseJudul\fi}\[\UI@coverTitleToSubtitleGap]%
2390       \bo{\UI@label@sampulJudul}\[\UI@coverSubtitleToAuthorGap]%
2391       \vfill
2392       \UI@IfSingleAuthor{%
2393         \bo{\PenulisSatu}\[
2394         \bo{\npmSatu}\[
2395       }{%
2396         \bo{\PenulisSatu~/ \npmSatu}\[
2397         \bo{\PenulisDua~/ \npmDua}\[
2398       }%
2399       \UI@IfThirdAuthor{%
2400         \bo{\PenulisTiga~/ \npmTiga}\[
2401       }{%
2402       }%
2403       \vfill
2404       \large
2405       \bo{%
2406         \Fakultas\[\UI@title@metaRowGap]%
2407         \MakeUppercase{\UI@label@studyProgramOf}~\UI@studyProgramUniqueDisplayUpper\[\UI@title@metaRowGap]%
2408         \MakeUppercase{\UI@kota}\[\UI@title@metaRowGap]%
2409         \MakeUppercase{\bulanTahun}
2410       }%
2411       \normalsize
2412     \end{center}%
2413     \end{singlespace*}%
2414   \end{titlepage}%
2415 }
2416 %--- Halaman Judul Dalam ---%
2417 \newcommand{\UI@typeset@judulDalam}{%
2418   \begin{titlepage}%
2419     \begin{singlespace*}%
2420     \begin{center}%
2421       \begin{figure}%
2422         \begin{center}%
2423           \includegraphics[width=2.5cm]{\UI@makaraimage}%
2424         \end{center}%
2425       \end{figure}%
2426       \vspace*{\UI@coverLogoToUniversityGap}%
2427       \large
2428       \bo{UNIVERSITAS INDONESIA}\[\UI@coverUniversityToTitleGap]%

```

```

2429 \vfill
2430 \bo{\if@UIenglish\JudulInggris\else\Judul\fi}\\[\UI@coverTitleToSubtitleGap]%
2431 \bo{\UI@label@sampulJudul}\\[\UI@titleInsideSubtitleToBodyGap]%
2432 \normalsize
2433 \UI@label@gelarText\\
2434 \gelar\\
2435 \vfill
2436 \large
2437 \UI@IfSingleAuthor{%
2438 \bo{\PenulisSatu}\\
2439 \bo{\npmSatu}\\
2440 }{%
2441 \bo{\PenulisSatu~/ \npmSatu}\\
2442 \bo{\PenulisDua~/ \npmDua}\\
2443 }%
2444 \UI@IfThirdAuthor{%
2445 \bo{\PenulisTiga~/ \npmTiga}\\
2446 }{%}
2447 \vfill
2448 \large
2449 \bo{%
2450 \Fakultas\\[\UI@title@metaRowGap]%
2451 \MakeUppercase{\UI@label@studyProgramOf}~\UI@studyProgramUniqueDisplayUpper\\[\UI@title@metaRowGap]%
2452 \MakeUppercase{\UI@kota}\\[\UI@title@metaRowGap]%
2453 \MakeUppercase{\bulanTahun}
2454 }%
2455 \normalsize
2456 \end{center}%
2457 \end{singlespace*}%
2458 \end{titlepage}%
2459 }
2460
2461 %--- Orisinalitas ---%
2462 \newcommand{\UI@typeset@orisinalitas}{%
2463 \UI@frontpageHead{\UI@label@orisinalitasHead}%
2464 \vspace*{\UI@frontpage@bodyTopGap}%
2465 \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2466 \begin{center}%
2467 \doublespacing
2468 \bo{\UI@label@originBody}\\
2469 \vspace*{\UI@frontpage@bodyToSignatureGap}%
2470 \UI@restoreMainSpacing%
2471 \ifx\UI@content@orisinalitas\empty
2472 \UI@sigTable
2473 \else
2474 \UI@content@orisinalitas
2475 \fi
2476 \end{center}%
2477 \newpage
2478 }
2479
2480 %--- Lembar Pengesahan ---%
2481 \newcommand{\UI@typeset@pengesahan}{%
2482 \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi

```

```

2483 \strcompare{Laporan Kerja Praktik}{\UI@type}{%
2484 % Varian Kerja Praktik
2485 \UI@frontpageHead{\UI@label@pengesahanKP}%
2486 \if@UImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2487 \vspace*{\UI@frontpage@sectionGapM}%
2488 \noindent
2489 \begin{tabularx}{\linewidth}{\llX}%
2490 \multicolumn{3}{\UI@type@display~\UI@label@submitted:} \\\
2491 \UI@label@authorName & : & \penulisSatu \\\
2492 \UI@label@authorNPM & : & \npmSatu \\\
2493 \UI@label@studyProgram & : & \UI@studyProgramSatuDisplay \\\
2494 \UI@label@title & : & \if@UIenglish\judulInggris\else\judul\fi \\\
2495 \end{tabularx}\par
2496 \vspace*{\UI@approval@metaToStatementGap}%
2497 \noindent\bo{\UI@label@approvedBodyKP}\[\UI@approval@statementToBoardGap]%
2498 \begin{center}%
2499 \begin{tabularx}{0.75\linewidth}{>\centering\arraybackslashX}%
2500 \rule{0.85\linewidth}{0.4pt}\[\UI@approvalBoardRuleToNameGap]
2501 (\pembimbingSatu)\[\UI@approvalBoardNameToRoleGap]
2502 \UI@label@kpSupervisorTitle\\
2503 \UI@facultyDisplay~Universitas Indonesia%
2504 \end{tabularx}%
2505 \end{center}%
2506 \vfill%
2507 \begin{tabular}{\ll l}%
2508 \UI@label@setAt & : & \UI@kota \\\
2509 \UI@label@date & : & \tanggalLulus \\\
2510 \end{tabular}%
2511 }{%
2512 \strcompare{Kampus Merdeka}{\UI@type}{%
2513 % Varian Kampus Merdeka
2514 \UI@frontpageHead{\UI@label@pengesahanMBKM}%
2515 \if@UImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2516 \vspace*{\UI@frontpage@sectionGapM}%
2517 \noindent
2518 \begin{tabularx}{\linewidth}{\llX}%
2519 \multicolumn{3}{\UI@label@mbkmSubmitted~\UI@label@submitted:} \\\
2520 \UI@label@authorName & : & \penulisSatu \\\
2521 \UI@label@authorNPM & : & \npmSatu \\\
2522 \UI@label@studyProgram & : & \UI@studyProgramSatuDisplay \\\
2523 \UI@label@title & : & \if@UIenglish\judulInggris\else\judul\fi \\\
2524 \end{tabularx}\par
2525 \vspace*{\UI@approval@metaToStatementGap}%
2526 \noindent\bo{\UI@label@approvedBodyMBKM}\[\UI@approvalMBKMStatementToBoardGap]%
2527 \ifx\blank\pembimbingDua
2528 \begin{center}%
2529 \begin{tabularx}{0.75\linewidth}{>\centering\arraybackslashX}%
2530 \rule{0.85\linewidth}{0.4pt}\[\UI@approvalBoardRuleToNameGap]
2531 (\pembimbingSatu)\[\UI@approvalBoardNameToRoleGap]
2532 \bo{\UI@label@mbkmSupervisorTitle~\UI@kampusMerdekaType}\\
2533 \bo{\UI@facultyDisplay~Universitas Indonesia}%
2534 \end{tabularx}%
2535 \end{center}%
2536 \else

```

```

2537 \begin{center}%
2538 \begin{tabularx}{\linewidth}{>{\centering\arraybackslash}X>{\centering\arraybackslash}
2539 \rule{0.85\linewidth}{0.4pt} & \rule{0.85\linewidth}{0.4pt} \\\[UI@approvalBoard
2540 (\pembimbingSatu) & (\pembimbingDua) \\\[UI@approvalBoardNameToRoleGap]
2541 \UI@label@mbkmSupervisorTitle~\UI@kampusMerdekaType & \partnerPosition \\\
2542 \UI@facultyDisplay~Universitas Indonesia & \partnerInstance \\\
2543 \end{tabularx}%
2544 \end{center}%
2545 \fi
2546 \vfill%
2547 \begin{tabular}{ll l}%
2548 \UI@label@setAt & : & \UI@kota \\\
2549 \UI@label@date & : & \tanggalLulus \\\
2550 \end{tabular}%
2551 }{%
2552 \strcompare{Doktor}{\UI@jenjang}{%
2553 % Varian Doktor (S3)
2554 \UI@frontpageHead{\UI@label@pengesahan}%
2555 \ifUImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2556 \vspace*{\UI@frontpage@sectionGapM}%
2557 \noindent
2558 \begin{tabularx}{\linewidth}{llX}%
2559 \UI@type@display~\UI@label@submitted & : & \\\
2560 \UI@label@authorName & : & \penulisSatu \\\
2561 \UI@label@authorNPM & : & \npmSatu \\\
2562 \UI@label@studyProgram & : & \UI@studyProgramSatuDisplay \\\
2563 \UI@label@title & : & \if@UIenglish\judulInggris\else\judul\fi \\\
2564 \end{tabularx}\par
2565 \vspace*{\UI@approval@metaToStatementGap}%
2566 \noindent\bo{\UI@label@approvedBody}\\\[UI@approval@statementToBoardGap]%
2567 \begin{longtable}{@{}>{\raggedright\arraybackslash}p{2.2cm}
2568 >{\centering\arraybackslash}p{0.3cm}
2569 >{\raggedright\arraybackslash}p{\dimexpr\linewidth-2.2cm-0.3cm-3.0cm-6\tabcolsep\relax}
2570 >{\centering\arraybackslash}p{3.0cm}@{}}%
2571 \multicolumn{4}{c}{\bo{\UI@label@examBoard}}\\\[UI@approvalBoardHeaderToRowsGap]
2572 & & & \\\[UI@approvalBoardInterRowGap]
2573 \UI@label@promotor & : & \pembimbingSatu & (\hspace*{3.0cm}) \\\
2574 \ifx\blank\pembimbingDua\else
2575 & & & \\\[UI@approvalBoardInterRowGap]
2576 \UI@label@kopromotor & : & \pembimbingDua & (\hspace*{3.0cm}) \\\
2577 \fi
2578 \ifx\blank\pembimbingTiga\else
2579 & & & \\\[UI@approvalBoardInterRowGap]
2580 & : & \pembimbingTiga & (\hspace*{3.0cm}) \\\
2581 \fi
2582 & & & \\\[UI@approvalBoardInterRowGap]
2583 \UI@label@examinerTeam & : & \pengujiSatu~(\UI@label@examChair) & (\hspace*{3.0cm}) \\\
2584 & & & \\\[UI@approvalBoardInterRowGap]
2585 & : & \pengujiDua~(\UI@label@examMember) & (\hspace*{3.0cm}) \\\
2586 \ifx\blank\pengujiTiga\else
2587 & & & \\\[UI@approvalBoardInterRowGap]
2588 & : & \pengujiTiga~(\UI@label@examMember) & (\hspace*{3.0cm}) \\\
2589 \fi
2590 \ifx\blank\pengujiEmpat\else

```

```

2591      & & & \[\UI@approvalBoardInterRowGap]
2592      & : & \pengujiEmpat~(\UI@label@examMember) & (\hspace*{3.0cm}) \\\
2593 \fi
2594 \ifx\blank\pengujiLima\else
2595      & & & \[\UI@approvalBoardInterRowGap]
2596      & : & \pengujiLima~(\UI@label@examMember) & (\hspace*{3.0cm}) \\\
2597 \fi
2598 \ifx\blank\pengujiEnam\else
2599      & & & \[\UI@approvalBoardInterRowGap]
2600      & : & \pengujiEnam~(\UI@label@examMember) & (\hspace*{3.0cm}) \\\
2601 \fi
2602 \end{longtable}%
2603 \vfill%
2604 \begin{tabular}{ll l}%
2605 \UI@label@setAt & : & \UI@kota \\\
2606 \UI@label@date & : & \tanggalLulus \\\
2607 \end{tabular}%
2608 }{%
2609 % Varian S1/S2
2610 \UI@frontpageHead{\UI@label@pengesahan}%
2611 \if@UImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2612 \vspace*{\UI@frontpage@sectionGapM}%
2613 \noindent
2614 \begin{tabularx}{\linewidth}{lX}%
2615 \UI@type@display~\UI@label@submitted & : & \\\
2616 \UI@IfSingleAuthor{%
2617 \UI@label@authorName & : & \penulisSatu \\\
2618 \UI@label@authorNPM & : & \npmSatu \\\
2619 \UI@label@studyProgram & : & \UI@studyProgramSatuDisplay \\\
2620 }{%
2621 \bo{\UI@label@authorPrefix-1}\\
2622 \UI@label@authorName & : & \penulisSatu \\\
2623 \UI@label@authorNPM & : & \npmSatu \\\
2624 \UI@label@studyProgram & : & \UI@studyProgramSatuDisplay\vspace*{\UI@approvalMul
2625 \bo{\UI@label@authorPrefix-2}\\
2626 \UI@label@authorName & : & \penulisDua \\\
2627 \UI@label@authorNPM & : & \npmDua \\\
2628 \UI@label@studyProgram & : & \UI@studyProgramDuaDisplay\vspace*{\UI@approvalMult
2629 }%
2630 \UI@IfThirdAuthor{%
2631 \bo{\UI@label@authorPrefix-3}\\
2632 \UI@label@authorName & : & \penulisTiga \\\
2633 \UI@label@authorNPM & : & \npmTiga \\\
2634 \UI@label@studyProgram & : & \UI@studyProgramTigaDisplay\vspace*{\UI@approvalMul
2635 }{}%
2636 \UI@label@title & : & \if@UIenglish\judulInggris\else\judul\fi \\\
2637 \end{tabularx}\par
2638 \vspace*{\UI@approval@metaToStatementGap}%
2639 \noindent\bo{\UI@label@approvedBody}\[\UI@approval@statementToBoardGap]%
2640 \UI@IfThirdAuthor{\clearpage}{\}
2641 \begin{tabularx}{\linewidth}{lXl}%
2642 \multicolumn{4}{c}{\bo{\UI@label@examBoard}}\[\UI@approvalBoardHeaderToRowsGap]
2643 & & & \[\UI@approvalBoardInterRowGap]
2644 \UI@label@supervisor~1 & : & & \pembimbingSatu & (\hspace*{3.0cm}) \\\

```

```

2645         \ifx\blank\pembimbingDua\else
2646         & & & \\\[UI@approvalBoardInterRowGap]
2647         \UI@label@supervisor~2 & : & \pembimbingDua & (\hspace*{3.0cm}) \\\
2648         \fi
2649         & & & \\\[UI@approvalBoardInterRowGap]
2650         \UI@label@examiner~1 & : & \pengujiSatu & (\hspace*{3.0cm}) \\\
2651         & & & \\\[UI@approvalBoardInterRowGap]
2652         \UI@label@examiner~2 & : & \pengujiDua & (\hspace*{3.0cm}) \\\
2653         \ifx\blank\pengujiTiga\else
2654         & & & \\\[UI@approvalBoardInterRowGap]
2655         \UI@label@examiner~3 & : & \pengujiTiga & (\hspace*{3.0cm}) \\\
2656         \fi
2657     \end{tabularx}
2658     \vfill%
2659     \begin{tabular}{ll l}%
2660         \UI@label@setAt & : & \UI@kota \\\
2661         \UI@label@date & : & \tanggalLulus \\\
2662     \end{tabular}%
2663 }%
2664 }%
2665 }%
2666 \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2667 \newpage
2668 }
2669
2670 %--- Pernyataan Penggunaan Kecerdasan Artifisial ---%
2671 \newcommand{\UI@typeset@pernyataanAI}{%
2672     \clearpage
2673     \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2674     \UI@frontpageHead{\UI@label@pernyataanAI}%
2675     \if@UImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2676     \vspace*{\UI@frontpage@bodyTopGap}%
2677     \begin{center}%
2678         \ifx\UI@content@AI\empty
2679         \ifx\blank\UI@aipatform
2680             \bo{\UI@label@aiBodyNone}%
2681         \else
2682             \bo{\UI@label@aiBodyUsed}%
2683         \fi
2684     \else
2685         \UI@content@AI
2686     \fi
2687 \end{center}%
2688 \vspace{\UI@frontpage@bodyToSignatureGap}%
2689 \noindent\begin{minipage}{\linewidth}%
2690     \begin{center}%
2691         \UI@sigTable
2692     \end{center}%
2693 \end{minipage}%
2694 \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2695 \newpage
2696 }
2697
2698 %--- Surat Pernyataan ---%

```

```

2699 \newcommand{\UI@typeset@suratPernyataan}{%
2700 \clearpage
2701 \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2702 {%
2703 \setlength{\UI@frontpage@topskip}{\UI@suratHeadingTopskip}%
2704 \setlength{\UI@frontpage@afterskip}{\UI@suratHeadingAfterSkip}%
2705 \UI@frontpageHead{\UI@label@suratPernyataan}%
2706 }%
2707 \if@UImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2708 \ifx\UI@content@suratPernyataan\empty
2709 \noindent\UI@label@suratPernyataanBody\par
2710 \vspace*{\UI@suratIdentityToMetaGap}%
2711 \noindent\begin{tabularx}{\linewidth}{p{4.2cm} c X}
2712 \UI@label@authorName & : &
2713 \UI@IfSingleAuthor{\penulisSatu}%
2714 {\penulisSatu,~\penulisDua\UI@IfThirdAuthor{,~\penulisTiga}{}} \\\
2715 \UI@label@authorNPM & : &
2716 \UI@IfSingleAuthor{\npmSatu}%
2717 {\npmSatu~/~\npmDua\UI@IfThirdAuthor{~/~\npmTiga}{}} \\\
2718 \UI@label@studyProgram & : & \UI@studyProgramAllDisplay \\\
2719 \UI@label@academicYear & : & \UI@academicYear \\\
2720 \end{tabularx}\par
2721 \vspace*{\UI@suratParagraphGap}%
2722 \noindent\UI@label@suratPernyataanPlagiarism\par
2723 \begin{center}%
2724 \textbf{'\MakeUppercase{\if@UIenglish\judulInggris\else\judul\fi}'}%
2725 \end{center}%
2726 \noindent\UI@label@suratPernyataanSanction\par
2727 \vspace*{\UI@suratParagraphGap}%
2728 \noindent\UI@label@suratPernyataanClosing\par
2729 \vspace*{\UI@frontpage@sectionGapL}%
2730 \begin{flushleft}
2731 \UI@kota, \tanggalSiapSidang\[\UI@frontpage@signatureDateGap]
2732 (\UI@IfSingleAuthor{\penulisSatu}{\UI@label@teamWriters})
2733 \end{flushleft}%
2734 \else
2735 \UI@content@suratPernyataan
2736 \fi
2737 \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2738 \newpage
2739 }
2740
2741 %--- Kata Pengantar ---%
2742 \newcommand{\UI@typeset@kataPengantar}{%
2743 \pagestyle{onlypage}%
2744 \chapter*{\UI@label@kataPengantar}%
2745 \thispagestyle{onlypage}%
2746 \UI@content@kataPengantar
2747 \vspace*{\UI@kataPengantarDateToNameGap}%
2748 \begin{flushright}%
2749 \UI@kota, \tanggalSiapSidang\[\UI@kataPengantarDateToNameGap]%
2750 \UI@IfSingleAuthor{%
2751 \vspace*{\UI@kataPengantarSingleAuthorSignGap}%
2752 \penulisSatu

```

```

2753     }{%
2754         \UI@label@teamWriters%
2755     }%
2756 \end{flushright}%
2757 \newpage
2758 }
2759
2760 %--- Persetujuan Publikasi ---%
2761 \newcommand{\UI@typeset@publikasi}{%
2762     \clearpage
2763     \if@UImonograph\thispagestyle{onlypage}\else\thispagestyle{journal-front}\fi
2764     \global\@topnum\z@
2765     \@afterindentfalse
2766     \if@UImonograph
2767         {\parindent\z@\centering\singlespacing\normalfont\bfseries
2768             \interlinepenalty\@M
2769             \MakeUppercase{\UI@label@publikasiHead}%
2770             \vskip \UI@publikasiHeadingAfterGap}%
2771     \else
2772         {\parindent\z@\centering\singlespacing\normalfont\bfseries
2773             \vspace*{\UI@frontpage@topskip}\par
2774             \MakeUppercase{\UI@label@publikasiHead}\par
2775             \vskip \UI@publikasiHeadingAfterGap}%
2776     \fi
2777     {\parskip=0pt\relax\hrule height 1.5pt\vspace*{\UI@publikasiRuleInnerGap}\hrule height 1.5pt}
2778     \vspace*{\UI@frontpage@sectionGapS}%
2779     \noindent\UI@label@pubBody
2780
2781     \vspace*{\UI@frontpage@sectionGapS}%
2782     \if@UImonograph\pagestyle{onlypage}\else\pagestyle{journal-front}\fi
2783     \ifx\UI@content@publikasi\empty
2784         \begin{center}%
2785             \noindent\begin{tabularx}{\linewidth-2\parindent}{p{4.2cm} c X}%
2786                 \UI@label@authorName & : & \\
2787                 \UI@IfSingleAuthor{\penulisSatu}%
2788                 {\penulisSatu~/~/\penulisDua\UI@IfThirdAuthor{~/~/\penulisTiga}{}} \\\
2789                 \UI@label@authorNPM & : & \\
2790                 \UI@IfSingleAuthor{\npmSatu}%
2791                 {\npmSatu~/~/\npmDua\UI@IfThirdAuthor{~/~/\npmTiga}{}} \\\
2792                 \UI@label@studyProgram & : & \UI@studyProgramAllDisplay \\\
2793                 \UI@label@workType & : & \UI@type@display \\\
2794             \end{tabularx}%
2795         \end{center}%
2796
2797         \vspace*{\UI@frontpage@sectionGapS}%
2798         \noindent\UI@label@pubMiddle
2799         \begin{center}%
2800             \if@UIenglish\judulInggris\else\judul\fi
2801         \end{center}%
2802         \noindent\UI@label@pubEnd
2803
2804         \noindent\begin{minipage}{\linewidth}%
2805         \begin{center}%
2806             \vspace*{\UI@frontpage@sectionGapXS}\vspace*{\UI@frontpage@sectionGapL}%

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```

2807 \begin{tabular}{lll}%
2808 \UI@label@pubCity & : & \UI@kota \\
2809 \UI@label@pubSignDate & : & \tanggalSiapSidang \\
2810 \end{tabular}\\%
2811 \par
2812 \vspace*{\UI@frontpage@sectionGapS}%
2813 \UI@label@pubSigner\\%
2814 \UI@IfSingleAuthor{%
2815 \vspace*{\UI@frontpage@bodyTopGap}%
2816 (\penulisSatu)\\%
2817 }{%
2818 \UI@IfThirdAuthor{%
2819 \begin{tabular}{@{}>{\centering\arraybackslash}p{0.30\linewidth}@{\hspace{0.05\linewidth}}%
2820 \rule{0pt}{2cm} & & \tabularnewline
2821 (\penulisSatu) & (\penulisDua) & (\penulisTiga)\tabularnewline%
2822 \end{tabular}%
2823 }{%
2824 \begin{tabular}{@{}>{\centering\arraybackslash}p{0.45\linewidth}@{\hspace{0.10\linewidth}}%
2825 \rule{0pt}{2cm} & & \tabularnewline
2826 (\penulisSatu) & (\penulisDua)\tabularnewline%
2827 \end{tabular}%
2828 }%
2829 }%
2830 \end{center}%
2831 \end{minipage}%
2832 \else
2833 \UI@content@publikasi
2834 \fi
2835 \newpage
2836 }
2837
2838 %--- Abstrak (Bahasa Indonesia) ---%
2839 \newcommand{\UI@typeset@abstrak}{%
2840 \if@UImonograph
2841 \chapter*{Abstrak}%
2842 \thispagestyle{first-pages}%
2843 \singlespacing
2844 \noindent\begin{tabularx}{\linewidth}{l l X}%
2845 \UI@IfSingleAuthor{%
2846 Nama & : & \penulisSatu \\
2847 Program Studi & : & \programSatu \\
2848 }{%
2849 Nama Penulis 1 / Program Studi & : & \penulisSatu- / \programSatu \\
2850 Nama Penulis 2 / Program Studi & : & \penulisDua- / \programDua \\
2851 }%
2852 \UI@IfThirdAuthor{%
2853 Nama Penulis 3 / Program Studi & : & \penulisTiga- / \programTiga \\
2854 }{%
2855 Judul & : & \judul \\
2856 \UI@abstrakCounselorRows{Pembimbing}%
2857 \end{tabularx}\par
2858 \vspace*{\UI@abstrakMonoMetaToBodyGap}%
2859 \else
2860 \thispagestyle{first-pages}%

```

```

2861 {\\singlespacing
2862 \\begin{center}%
2863 {\\fontsize{12}{15}\\selectfont\\bo{\\if@UIenglish\\judulInggris\\else\\judul\\fi}}\\%
2864 \\penulisSatu%
2865 \\UI@IfSingleAuthor{}{, \\penulisDua\\UI@IfThirdAuthor{, \\penulisTiga}{}}%
2866 \\UI@abstrakCounselorInline%
2867 \\end{center}%
2868 \\vspace*{\\UI@journalTitleToStudyGap}%
2869 \\noindent{\\centering\\if@UIenglish\\studyProgramSatu, \\fakultasEN\\else\\programSatu, \\fak
2870 \\vspace*{\\UI@journalStudyToAbstrakGap}%
2871 \\noindent{\\centering\\bo{ABSTRAK}\\par}%
2872 \\noindent\\UI@content@abstrakID\\par
2873 \\vspace*{\\UI@journalAbstrakToKeywordsGap}%
2874 \\noindent\\textbf{Kata kunci:} \\UI@keywords@ID\\par
2875 }%
2876 \\fi
2877 \\if@UImonograph
2878 \\noindent\\UI@content@abstrakID\\
2879 \\vspace*{\\UI@abstrakMonoBodyToKeywordsGap}%
2880 \\noindent\\textbf{Kata kunci:} \\UI@keywords@ID\\
2881 \\vspace*{\\UI@abstrakMonoAfterKeywordsGap}%
2882 \\fi
2883 \\UI@restoreMainSpacing%
2884 \\if@UImonograph\\newpage\\fi
2885 }
2886
2887 %--- Abstract (English) ---%
2888 \\newcommand{\\UI@typeset@abstract}{%
2889 \\if@UImonograph
2890 \\chapter*{ABSTRACT}%
2891 \\thispagestyle{first-pages}%
2892 \\singlespacing
2893 \\noindent\\begin{tabularx}{\\linewidth}{l l X}%
2894 \\UI@IfSingleAuthor{%
2895 Name & : & \\penulisSatu \\
2896 Study Program & : & \\studyProgramSatu \\
2897 }{%
2898 Writer 1 / Study Program & : & \\penulisSatu~/ \\studyProgramSatu \\
2899 Writer 2 / Study Program & : & \\penulisDua~/ \\studyProgramDua \\
2900 }%
2901 \\UI@IfThirdAuthor{%
2902 Writer 3 / Study Program & : & \\penulisTiga~/ \\studyProgramTiga \\
2903 }{%
2904 Title & : & \\judulInggris \\
2905 \\UI@abstrakCounselorRows{Counselor}%
2906 \\end{tabularx}\\par
2907 \\vspace*{\\UI@abstractMonoMetaToBodyGap}%
2908 \\else
2909 \\thispagestyle{first-pages}%
2910 {\\singlespacing
2911 \\vspace*{\\UI@journalKeywordsToAbstractGap}%
2912 \\noindent{\\centering\\textbf{\\textit{ABSTRACT}}\\par}%
2913 \\noindent\\textit{\\UI@content@abstractEN}\\par
2914 \\vspace*{\\UI@journalAbstractToKeywordsGap}%

```

```

2915         \noindent\textit{\textbf{Keywords:} \UI@keywords@EN}\par
2916     }%
2917 \fi
2918 \if@UImonograph
2919     \noindent\UI@content@abstractEN\
2920     \vspace*{\UI@abstractMonoBodyToKeywordsGap}%
2921     \noindent\textbf{Keywords:} \UI@keywords@EN\
2922 \fi
2923 \if@UImonograph
2924     \vspace*{\UI@abstractMonoAfterKeywordsGap}%
2925 \fi
2926 \UI@restoreMainSpacing%
2927 \newpage
2928 }
2929
2930
2931 %=====
2932 % FRONT MATTER: PERAKITAN HALAMAN DEPAN (\makefrontmatter)
2933 %=====
2934
2935 \newcommand{\makefrontmatter}{%
2936     \if@UImonograph
2937         %--- Alur monograf ---%
2938         \UI@typeset@sampul
2939         \UI@insertdummyblank
2940         \pagenumbering{roman}%
2941
2942         % Halaman Judul Dalam (dilewati untuk Kampus Merdeka)
2943         \strcompare{Kampus Merdeka}{\UI@type}{}{%
2944             \addChapter{\UI@label@halamanJudul}%
2945             \UI@typeset@judulDalam
2946             \UI@insertdummyblankonlypage
2947         }
2948
2949         % Halaman Orisinalitas (dilewati untuk KP dan MBKM)
2950         \strcompare{Laporan Kerja Praktik}{\UI@type}{}{%
2951             \strcompare{Kampus Merdeka}{\UI@type}{}{%
2952                 \addChapter{\UI@label@orisinalitas}%
2953                 \UI@typeset@orisinalitas
2954                 \UI@insertdummyblankonlypage
2955             }}
2956
2957         % Tentukan nomor awal halaman romawi
2958         \strcompare{Laporan Kerja Praktik}{\UI@type}{%
2959             \setcounter{page}{2}%
2960         }{%
2961             \strcompare{Kampus Merdeka}{\UI@type}{%
2962                 \setcounter{page}{2}%
2963             }{%
2964                 \setcounter{page}{3}%
2965             }%
2966         }
2967
2968         % Lembar Pengesahan

```

```

2969 \addChapter{\UI@label@pengesahan}%
2970 \ifx\UI@pengesahanPDFfile\empty
2971   \UI@typeset@pengesahan
2972 \else
2973   \includepdf[pages=-,pagecommand={\if@UImonograph\thispagestyle{onlypage}\else\thispage
2974   \newpage
2975 \fi
2976 \UI@insertdummyblankonlypage
2977
2978 % Pernyataan Penggunaan AI (semua tipe)
2979 \addChapter{\UI@label@pernyataanAI}%
2980 \UI@typeset@pernyataanAI
2981 \UI@insertdummyblankonlypage
2982
2983 % Surat Pernyataan (semua tipe)
2984 \addChapter{\UI@label@suratPernyataan}%
2985 \UI@typeset@suratPernyataan
2986 \UI@insertdummyblankonlypage
2987
2988 % Kata Pengantar & Persetujuan Publikasi (dilewati untuk KP dan MBKM)
2989 \strcompare{Laporan Kerja Praktik}{\UI@type}{}{\%
2990 \strcompare{Kampus Merdeka}{\UI@type}{}{\%
2991   \addChapter{\UI@label@kataPengantar}%
2992   \UI@typeset@kataPengantar
2993   \UI@insertdummyblankonlypage
2994
2995   \addChapter{\UI@label@publikasi}%
2996   \UI@typeset@publikasi
2997   \UI@insertdummyblankonlypage
2998 }}
2999
3000 % Abstrak dan daftar-daftar
3001 \pagestyle{first-pages}%
3002 \addChapter{\UI@label@abstrak}%
3003 \UI@typeset@abstrak
3004 \UI@typeset@abstract
3005
3006 % Conditional list decisions use counts from the PREVIOUS successful run.
3007 % After clean builds or structural edits, run LaTeX at least twice.
3008 \addDefaultListPage{\tableofcontents}%
3009 \UI@condListPage{\UI@prev@count@lof}{\addDefaultListPage{\listoffigures}}%
3010 \UI@condListPage{\UI@prev@count@lot}{\addDefaultListPage{\listoftables}}%
3011 \UI@condListPage{\UI@prev@count@lol}{\addCustomListPage{\listoflistings}{\lstlistlisting
3012 \UI@condListPage{\UI@prev@count@loe}{\addCustomListPage{\listofequ}{\listofequaname}}%
3013 \addCustomListPage{\listofappendix}{\listofappendixname}%
3014 % Keep user-defined lists in the same flushed front-matter block so page
3015 % numbering and footer style match the built-in list pages.
3016 \UI@renderFrontmatterLists
3017
3018 \noCAPinToC
3019 \ifUI@twosideprint
3020   \ifodd\numexpr\value{UI@physicalpage}+1\relax\forceclearchapter\else\clearpage\fi
3021 \else
3022   \clearpage

```

```

3023 \fi
3024
3025 \global\UI@chapterstartedfalse
3026 \global\UI@chapterautoclearenabledtrue
3027 \pagenumbering{arabic}%
3028 \pagestyle{standard}%
3029 \setoddevenheader
3030
3031 \else
3032 %--- Alur jurnal ---%
3033 \pagenumbering{roman}%
3034 \setcounter{page}{1}%
3035 \pagestyle{journal-front}%
3036 \newgeometry{left=3cm,top=3cm,right=3cm,bottom=3cm}%
3037 \UI@syncPageStyleWidth
3038 \UI@typeset@sampul
3039 \disableboldchapterintoc
3040
3041 % Halaman Judul Dalam
3042 \addChapter{\UI@label@halamanJudul}%
3043 \UI@typeset@judulDalam
3044
3045 % Orisinalitas (dilewati untuk KP)
3046 \strcompare{Laporan Kerja Praktik}{\UI@type}{\UI@type}%
3047 \UI@typeset@orisinalitas
3048 }
3049
3050 % Lembar Pengesahan
3051 \addChapter{\UI@label@pengesahan}%
3052 \UI@typeset@pengesahan
3053
3054 % Pernyataan Penggunaan AI
3055 \addChapter{\UI@label@pernyataanAI}%
3056 \UI@typeset@pernyataanAI
3057
3058 % Surat Pernyataan
3059 \addChapter{\UI@label@suratPernyataan}%
3060 \UI@typeset@suratPernyataan
3061
3062 % Persetujuan Publikasi
3063 \addChapter{\UI@label@publikasi}%
3064 \UI@typeset@publikasi
3065
3066 % Abstrak (jurnal: gunakan bahasa yang dipilih)
3067 \restoregeometry
3068 \UI@syncPageStyleWidth
3069 \pagenumbering{arabic}%
3070 \setcounter{page}{1}%
3071 \pagestyle{first-pages}%
3072 \addChapter{\UI@label@abstrak}%
3073 \UI@typeset@abstrak
3074 \UI@typeset@abstract
3075 \clearpage
3076 \global\UI@chapterautoclearenabledfalse

```

```

3077 \global\UI@chapterstartedfalse
3078 \UI@restoreMainSpacing
3079 \pagestyle{standard}%
3080 % Aktifkan dua kolom jika diminta (jurnal)
3081 \if@UITwocolumn
3082 % Keep a conference-like gutter; narrow enough to preserve readable column width.
3083 \setlength{\columnsep}{0.25in}%
3084 \setlength{\tabcolsep}{4pt}%
3085 \twocolumn
3086 \fi
3087 \fi
3088 }
3089
3090
3091 %=====
3092 % METADATA API: PERINTAH PENGATURAN DOKUMEN (acmart-style accumulator)
3093 %=====
3094
3095 %--- Inisialisasi slot (diisi oleh accumulator) ---%
3096 \def\penulisSatu{}\def\penulisDua{}\def\penulisTiga{}
3097 \def\npmSatu{}\def\npmDua{}\def\npmTiga{}
3098 \def\programSatu{}\def\programDua{}\def\programTiga{}
3099 \def\studyProgramSatu{}\def\studyProgramDua{}\def\studyProgramTiga{}
3100 \def\UI@academicYear{}
3101 \def\pembimbingSatu{}\def\pembimbingDua{}\def\pembimbingTiga{}
3102 \def\pengujiSatu{}\def\pengujiDua{}\def\pengujiTiga{}
3103 \def\pengujiEmpat{}\def\pengujiLima{}\def\pengujiEnam{}
3104
3105 %--- Inisialisasi medan skalar dengan guard \ifx\blank ---%
3106 \def\UI@aiplatform{}\def\UI@tujuanai{}
3107 \def\UI@kampusMerdekaType{}\def\partnerPosition{}\def\partnerInstance{}
3108
3109 %--- Penghitung accumulator ---%
3110 \newcounter{@UI@penuliscount}
3111 \newcounter{@UI@pembimbingcount}
3112 \newcounter{@UI@pengujicount}
3113
3114 %--- \penulis{Nama} -> memulai blok penulis baru ---%
3115 \newcommand{\penulis}[1]{%
3116 \stepcounter{@UI@penuliscount}%
3117 \ifnum\c@UI@penuliscount=1\def\penulisSatu{#1}\fi
3118 \ifnum\c@UI@penuliscount=2\def\penulisDua{#1}\fi
3119 \ifnum\c@UI@penuliscount=3\def\penulisTiga{#1}\fi
3120 }
3121
3122 %--- \npm{NPM} -> menempel ke \penulis terakhir ---%
3123 \newcommand{\npm}[1]{%
3124 \ifnum\c@UI@penuliscount=1\def\npmSatu{#1}\fi
3125 \ifnum\c@UI@penuliscount=2\def\npmDua{#1}\fi
3126 \ifnum\c@UI@penuliscount=3\def\npmTiga{#1}\fi
3127 }
3128
3129 %--- \programStudi{Nama PS ID}{Study Program EN} ---%
3130 \newcommand{\programStudi}[2]{%

```

```

3131 \ifnum\c@UI@penuliscount=1\def\programSatu{#1}\def\studyProgramSatu{#2}\fi
3132 \ifnum\c@UI@penuliscount=2\def\programDua{#1}\def\studyProgramDua{#2}\fi
3133 \ifnum\c@UI@penuliscount=3\def\programTiga{#1}\def\studyProgramTiga{#2}\fi
3134 }
3135 \newcommand{\tahunAkademik}[1]{\gdef\UI@academicYear{#1}}
3136
3137 % Language-aware study-program display helpers.
3138 % Use these to keep rendering logic consistent and avoid duplicated conditionals.
3139 % Helper: resolve study-program label for the active language.
3140 % #1 = slot suffix (Satu/Dua/Tiga).
3141 \newcommand{\UI@studyProgramLabel}[1]{%
3142   \if@UIenglish\csname studyProgram#1\endcsname\else\csname program#1\endcsname\fi}
3143 \newcommand{\UI@studyProgramSatuDisplay}{\UI@studyProgramLabel{Satu}}
3144 \newcommand{\UI@studyProgramDuaDisplay}{\UI@studyProgramLabel{Dua}}
3145 \newcommand{\UI@studyProgramTigaDisplay}{\UI@studyProgramLabel{Tiga}}
3146 \newcommand{\UI@StudyProgramSatuDisplay}{\MakeUppercase{\UI@studyProgramLabel{Satu}}}
3147 \newcommand{\UI@StudyProgramDuaDisplay}{\MakeUppercase{\UI@studyProgramLabel{Dua}}}
3148 \newcommand{\UI@StudyProgramTigaDisplay}{\MakeUppercase{\UI@studyProgramLabel{Tiga}}}
3149 \newcommand{\UI@studyProgramUniqueDisplay}{%
3150   \UI@studyProgramSatuDisplay%
3151   \UI@ifSingleAuthor{}%
3152   \ifx\programSatu\programDua\else~/~\UI@studyProgramDuaDisplay\fi%
3153 }%
3154 \UI@ifThirdAuthor{%
3155   \ifx\programSatu\programTiga\else%
3156     \UI@ifSingleAuthor{%
3157       ~/~\UI@studyProgramTigaDisplay%
3158     }%
3159     \ifx\programDua\programTiga\else~/~\UI@studyProgramTigaDisplay\fi%
3160   }%
3161   \fi%
3162 }{}%
3163 }%
3164 \newcommand{\UI@studyProgramUniqueDisplayUpper}{\MakeUppercase{\UI@studyProgramUniqueDisplay}}
3165 \newcommand{\UI@studyProgramAllDisplay}{%
3166   \UI@studyProgramSatuDisplay%
3167   \UI@ifSingleAuthor{}/~/~\UI@studyProgramDuaDisplay}%
3168   \UI@ifThirdAuthor{}/~/~\UI@studyProgramTigaDisplay}{}%
3169 }%
3170 \newcommand{\UI@studyProgramAllDisplayUpper}{\MakeUppercase{\UI@studyProgramAllDisplay}}
3171
3172 %--- \pembimbing{Nama} -> accumulator dosen pembimbing ---%
3173 \newcommand{\pembimbing}[1]{%
3174   \stepcounter{@UI@pembimbingcount}%
3175   \ifnum\c@UI@pembimbingcount=1\def\pembimbingSatu{#1}\fi
3176   \ifnum\c@UI@pembimbingcount=2\def\pembimbingDua{#1}\fi
3177   \ifnum\c@UI@pembimbingcount=3\def\pembimbingTiga{#1}\fi
3178 }
3179
3180 %--- \penguji{Nama} -> accumulator dosen penguji ---%
3181 \newcommand{\penguji}[1]{%
3182   \stepcounter{@UI@pengujicount}%
3183   \ifnum\c@UI@pengujicount=1\def\pengujiSatu{#1}\fi
3184   \ifnum\c@UI@pengujicount=2\def\pengujiDua{#1}\fi

```

```

3185 \ifnum\c@UI@pengujicount=3\def\pengujiTiga{#1}\fi
3186 \ifnum\c@UI@pengujicount=4\def\pengujiEmpat{#1}\fi
3187 \ifnum\c@UI@pengujicount=5\def\pengujiLima{#1}\fi
3188 \ifnum\c@UI@pengujicount=6\def\pengujiEnam{#1}\fi
3189 }
3190
3191 %--- \mitra{Jabatan}{Instansi} -> penanggung jawab Kampus Merdeka ---%
3192 \newcommand{\mitra}[2]{%
3193 \def\partnerPosition{#1}%
3194 \def\partnerInstance{#2}%
3195 }
3196
3197 %--- Perintah skalar (mendefinisikan ulang diri sendiri) ---%
3198 \newcommand{\aiplatform}[1]{\gdef\UI@aiplatform{#1}}
3199 \newcommand{\tujuanai}[1]{\gdef\UI@tujuanai{#1}}
3200 \newcommand{\kampusMerdekaType}[1]{\gdef\UI@kampusMerdekaType{#1}}
3201 \newcommand{\judul}[1]{\gdef\judul{#1}}
3202 \newcommand{\judulInggris}[1]{\gdef\judulInggris{#1}}
3203 \newcommand{\fakultas}[2]{\gdef\fakultasID{#1}\gdef\fakultasEN{#2}}
3204 \newcommand{\gelar}[1]{\gdef\gelar{#1}}
3205 \newcommand{\bulanTahun}[1]{\gdef\bulanTahun{#1}}
3206 \newcommand{\tanggalSiapSidang}[1]{\gdef\tanggalSiapSidang{#1}}
3207 \newcommand{\tanggalLulus}[1]{\gdef\tanggalLulus{#1}}
3208
3209 % Kota (default: Depok; dapat diubah dengan \kota{Jakarta} di settings.tex)
3210 \def\UI@kota{Depok}
3211 \newcommand{\kota}[1]{\gdef\UI@kota{#1}}
3212
3213 % Berkas PDF Lembar Pengesahan eksternal (opsional)
3214 % Jika diisi, halaman pengesahan bawaan digantikan oleh PDF yang diberikan.
3215 % Gunakan: \pengesahanPDF{nama-berkas-tanpa-ekstensi}
3216 \def\UI@pengesahanPDFfile{}
3217 \newcommand{\pengesahanPDF}[1]{\gdef\UI@pengesahanPDFfile{#1}}
3218
3219
3220 %=====
3221 % MATERI BELAKANG: KONFIGURASI LAMPIRAN
3222 %=====
3223
3224 % Penghitung lampiran & judul berjalan.
3225 \def\UI@lampiran@header{}
3226
3227 \if@UIenglish
3228 \def\UI@label@lampiranCont{(continued)}
3229 \else
3230 \def\UI@label@lampiranCont{(lanjutan)}
3231 \fi
3232
3233 % Gaya halaman lampiran: halaman pertama tanpa sufiks, halaman berikutnya
3234 % dengan sufiks lanjutan.
3235 \if@UImonograph
3236 \ifUI@plagiarismcheck
3237 \fancypagestyle{lampiran-first}{\fancyhf{}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}}
3238 \fancypagestyle{lampiran}{\fancyhf{}\renewcommand{\headrulewidth}{0pt}\renewcommand{\footrulewidth}{0pt}}

```

```

3239 \else
3240 \fancypagestyle{lampiran-first}{%
3241 \fancyhf{}%
3242 \renewcommand{\headrulewidth}{0.0pt}%
3243 \ifUI@twosideprint
3244 \fancyfoot[L]{\UI@showOnPhysEven{\UI@footerText}}%
3245 \fancyfoot[R]{\UI@showOnPhysOdd{\UI@footerText}}%
3246 \fancyhead[L]{\UI@showOnPhysEven{\UI@pageNumberText\\[\UI@lampiranHeaderLineGap]}}%
3247 \fancyhead[R]{\UI@showOnPhysOdd{\UI@pageNumberText\\[\UI@lampiranHeaderLineGap]\UI@1
3248 \else
3249 \fancyfoot[R]{\UI@footerText}%
3250 \fancyhead[R]{\UI@pageNumberText\\[\UI@lampiranHeaderLineGap]\UI@lampiran@header}%
3251 \fi
3252 }
3253 \fancypagestyle{lampiran}{%
3254 \fancyhf{}%
3255 \renewcommand{\headrulewidth}{0.0pt}%
3256 \ifUI@twosideprint
3257 \fancyfoot[L]{\UI@showOnPhysEven{\UI@footerText}}%
3258 \fancyfoot[R]{\UI@showOnPhysOdd{\UI@footerText}}%
3259 \fancyhead[L]{\UI@showOnPhysEven{\UI@pageNumberText\\[\UI@lampiranHeaderLineGap]}}%
3260 \fancyhead[R]{\UI@showOnPhysOdd{\UI@pageNumberText\\[\UI@lampiranHeaderLineGap]\UI@1
3261 \else
3262 \fancyfoot[R]{\UI@footerText}%
3263 \fancyhead[R]{\UI@pageNumberText\\[\UI@lampiranHeaderLineGap]\UI@lampiran@header~\UI
3264 \fi
3265 }
3266 \fi
3267 \fi
3268
3269 % Daftar Lampiran
3270 \newcommand{\listofappendixname}{Daftar \apdx}
3271 \newlistof{appendix}{lox}{\listofappendixname}
3272 \newcommand{\addappendix}[1]{%
3273 \refstepcounter{appendix}%
3274 \addcontentsline{lox}{appendix}%
3275 {\apdx~\protect\numberline{\theappendix.}{\ignorespaces #1}}\par
3276 }
3277
3278 % Simpan headheight lama agar dipulihkan saat environment berakhir.
3279 \newlength{\UI@lamp@hh}
3280 \setlength{\UI@lamp@hh}{0pt}
3281 \newlength{\UI@lamp@prevhh}
3282 \setlength{\UI@lamp@prevhh}{0pt}
3283
3284 % Environment lampiran bernomor dengan header berjalan.
3285 \newenvironment{lampiranBab}[1]{%
3286 \if@UImonograph\clearpage\fi
3287 \addappendix{#1}%
3288 \gdef\UI@lampiran@header{\apdx~\theappendix: #1}%
3289 \if@UImonograph
3290 \setlength{\UI@lamp@prevhh}{\headheight}%
3291 \setlength{\UI@lamp@hh}{\dimexpr 2\baselineskip + 1em\relax}%
3292 \setlength{\headheight}{\UI@lamp@hh}%

```

```

3293     \thispagestyle{lampiran-first}%
3294     \pagestyle{lampiran}%
3295 \else
3296     % Jurnal: judul lampiran ditampilkan sebagai heading bab.
3297     \@makeschapterhead{\apdx~\theappendix: #1}%
3298     \thispagestyle{plain}%
3299 \fi
3300 }{%
3301 \if@UImonograph
3302     \clearpage
3303     \setlength{\headheight}{\UI@lamp@prevhh}%
3304 \fi
3305 }
3306
3307
3308 %=====
3309 % MATERI BELAKANG: PENGELOLA (\makebibliography, \makeglossarypage, \makeappendixseparator)
3310 %=====
3311
3312 % \makeglossarypage -> mencetak Daftar Istilah (glossary) ke dalam dokumen.
3313 % Hanya efektif pada format monograf.
3314 %
3315 % Hindari duplikasi entri ToC dengan TETAP mempertahankan heading glossary:
3316 % kita tidak menambahkan entri ToC manual di sini. Heading bawaan dari
3317 % glossaries (\glossarysection) tetap dipakai.
3318 \newcommand{\makeglossarypage}{%
3319 \if@UImonograph
3320     \singlespacing
3321     \printglossaries
3322     \UI@restoreMainSpacing%
3323     \clearchapter
3324 \fi
3325 }
3326
3327 % \makebibliography -> mencetak daftar referensi ke dalam dokumen dan ToC.
3328 % Menangani CAPinToC dan page break secara otomatis.
3329 % Judul otomatis disesuaikan dengan bahasa kelas.
3330 \newcommand{\makebibliography}{%
3331 \if@UITwocolumn
3332     % Two-column journal: no page break; bibliography continues from last chapter.
3333 \else
3334     \clearpage
3335 \fi
3336 \CAPinToC%
3337 \if@UIenglish
3338     \printbibliography[heading=bibintoc, title={References}]%
3339 \else
3340     \printbibliography[heading=bibintoc, title={Daftar Referensi}]%
3341 \fi%
3342 \clearchapter%
3343 }
3344
3345 % \makeappendixseparator -> menyisipkan halaman pemisah "LAMPIRAN" sebelum lampiran.
3346 % Hanya efektif pada format monograf; untuk jurnal tidak menghasilkan halaman.

```

```

3347 % Nomor halaman dipulihkan ke nilai sebelum halaman pemisah.
3348 \newcounter{UI@appendix@pagetemp}
3349 \newcommand{\makeappendixseparator}{%
3350   \if@UImonograph
3351     \ifUI@plagiarismcheck
3352       \clearpage
3353     \else
3354       % Ensure separator starts on right physical page in twoside mode.
3355       \UI@insertdummyblank
3356       \setcounter{UI@appendix@pagetemp}{\value{page}}%
3357       \begin{titlepage}%
3358         \phantomsection
3359         \thispagestyle{empty}%
3360         \centering
3361         \vspace*{\UI@appendixSeparatorTopGap}
3362         \if@UIenglish%
3363           \noindent\Huge{APPENDIX}%
3364         \else
3365           \noindent\Huge{LAMPIRAN}%
3366         \fi%
3367       \end{titlepage}%
3368       \setcounter{page}{\value{UI@appendix@pagetemp}}%
3369       \clearchapter
3370     \fi
3371 \fi
3372 }
3373
3374
3375 %=====
3376 % STYLING NON-ALUR: DEFINISI BAHASA PEMROGRAMAN BAWAAN
3377 %=====
3378 % Semua warna memenuhi rasio kontras WCAG AA ( $\geq 4.5:1$ ) pada latar putih.
3379 % Alias \keywordcolor, \typecolor, dan \greencomments didefinisikan di atas
3380 % bersama \lstdefinestyle{uistyle}.
3381 % Kelompok bahasa pada bagian ini:
3382 % (1) Domain-specific & markup
3383 % (2) Systems, game, and shader languages
3384 % (3) JVM ecosystem
3385 % (4) Script and functional languages
3386 % (5) Compiled and general-purpose languages
3387 % (6) Config and data formats
3388 %=====
3389
3390 %--- (1) Domain-specific & markup ---%
3391 %--- ABS (Abstract Behavioural Specification) ---%
3392 \lstdefinelanguage{ABS}{
3393   escapeinside={(\$)\$},
3394   basicstyle=\small\ttfamily,
3395   keywords={package,relative,init,base,product,with,unique,do,assert,this,new,data,type,de
3396 extends,implements,if,then,else,await,get,Fut,return,skip,while,module,
3397 import,export,from,to,suspend,delta,adds,modifies,removes,original,productline,
3398 features,core,corefeatures,optionalfeatures,after,when,product,hasAttribute,
3399 hasMethod,hasField,hasInterface,uses,root,extension,group,allof,oneof,require,
3400 stateupdate,objectupdate,classupdate,

```

```

3401     exclude,original,ifin,ifout,opt,null,
3402     newgroup,data,thiscomp,in,joins,leaves,subtypeOf,wait,acquire,except,as,component,Pre1,A
3403 },
3404 keywordstyle=\color{keywordcolor}\small\bfseries\sffamily,
3405 morekeywords=[2]{Unit, Int, Bool, Rat, List, Set, Pair, Fut, Maybe, String, Triple, Eith
3406 keywordstyle=[2]\color{typecolor},
3407 morekeywords=[3]{JMdl,JProj,Pkg,PkgC,PkgD,Decl,MDecl,requires,exports,MdlP,AO,AD,HD,tC,P
3408 keywordstyle=[3]\small\fontfamily{phv}\selectfont\textsl,
3409 sensitive=true,
3410 comment=[1]{//},
3411 morecomment=[s]{/*}{*/},
3412 morestring=[b]"
3413 }
3414
3415 %--- Acceleo (text-to-text transformation) ---%
3416 \lstdefinelanguage{acceleo}{
3417     morekeywords=[1]{template,self,query,comment,for,if,elseif,else,file,let,protected,super
3418     morekeywords=[2]{false,null,true,boolean,number,undefined,
3419         Array,Boolean,Date,Math,Number,String,Object,Sequence,Bag,Set},
3420     morekeywords=[3]{ViewContainer,DataBinding,List,Form,Details,
3421         InteractionFlowModelElement,ViewElement,ViewComponent,IFMLAction,
3422         IFMLParameter},
3423     morecomment=[s]{/**}{*/},
3424     morecomment=[s]{[/comment]}{[/comment]},
3425     morestring=[b]',
3426 }[keywords,comments,strings]
3427
3428 %--- CSS ---%
3429 \lstdefinelanguage{CSS}{
3430     keywords={accelerator,azimuth,background,background-attachment,
3431         background-color,background-image,background-position,
3432         background-position-x,background-position-y,background-repeat,
3433         behavior,border,border-bottom,border-bottom-color,
3434         border-bottom-style,border-bottom-width,border-collapse,
3435         border-color,border-left,border-left-color,border-left-style,
3436         border-left-width,border-right,border-right-color,
3437         border-right-style,border-right-width,border-spacing,
3438         border-style,border-top,border-top-color,border-top-style,
3439         border-top-width,border-width,bottom,caption-side,clear,
3440         clip,color,content,counter-increment,counter-reset,cue,
3441         cue-after,cue-before,cursor,direction,display,elevation,
3442         empty-cells,filter,float,font,font-family,font-size,
3443         font-size-adjust,font-stretch,font-style,font-variant,
3444         font-weight,height,ime-mode,include-source,
3445         layer-background-color,layer-background-image,layout-flow,
3446         layout-grid,layout-grid-char,layout-grid-char-spacing,
3447         layout-grid-line,layout-grid-mode,layout-grid-type,left,
3448         letter-spacing,line-break,line-height,list-style,
3449         list-style-image,list-style-position,list-style-type,margin,
3450         margin-bottom,margin-left,margin-right,margin-top,
3451         marker-offset,marks,max-height,max-width,min-height,
3452         min-width,transition-duration,transition-property,
3453         transition-timing-function,transform,
3454         -moz-transform,-moz-binding,-moz-border-radius,

```

```

3455     -moz-border-radius-topleft,-moz-border-radius-topright,
3456     -moz-border-radius-bottomright,-moz-border-radius-bottomleft,
3457     -moz-border-top-colors,-moz-border-right-colors,
3458     -moz-border-bottom-colors,-moz-border-left-colors,-moz-opacity,
3459     -moz-outline,-moz-outline-color,-moz-outline-style,
3460     -moz-outline-width,-moz-user-focus,-moz-user-input,
3461     -moz-user-modify,-moz-user-select,orphans,outline,
3462     outline-color,outline-style,outline-width,overflow,
3463     overflow-X,overflow-Y,padding,padding-bottom,padding-left,
3464     padding-right,padding-top,page,page-break-after,
3465     page-break-before,page-break-inside,pause,pause-after,
3466     pause-before,pitch,pitch-range,play-during,position,quotes,
3467     -replace,richness,right,ruby-align,ruby-overhang,
3468     ruby-position,-set-link-source,size,speak,speak-header,
3469     speak-numeral,speak-punctuation,speech-rate,stress,
3470     scrollbar-arrow-color,scrollbar-base-color,
3471     scrollbar-dark-shadow-color,scrollbar-face-color,
3472     scrollbar-highlight-color,scrollbar-shadow-color,
3473     scrollbar-3d-light-color,scrollbar-track-color,table-layout,
3474     text-align,text-align-last,text-decoration,text-indent,
3475     text-justify,text-overflow,text-shadow,text-transform,
3476     text-autospace,text-kashida-space,text-underline-position,top,
3477     unicode-bidi,-use-link-source,vertical-align,visibility,
3478     voice-family,volume,white-space,widows,width,word-break,
3479     word-spacing,word-wrap,writing-mode,z-index,zoom},
3480     sensitive=true,
3481     morecomment=[l]{//},
3482     morecomment=[s]{/*}{*/},
3483     morestring=[b]',
3484     morestring=[b]",
3485     alsoletter={:},
3486     alsodigit={-}
3487 }
3488
3489 %--- (2) Systems, game, and shader languages ---%
3490 %--- D language ---%
3491 \lstdefinelanguage{D}{
3492     morekeywords=[1]{
3493         abstract,alias,align,auto,body,break,cast,catch,class,const,
3494         continue,debug,delegate,delete,deprecated,do,else,enum,export,
3495         false,final,finally,for,foreach,foreach_reverse,function,goto,if,
3496         immutable,import,in,inout,interface,invariant,is,lazy,macro,mixin,
3497         module,new,nothrow,null,out,override,package,pragma,private,
3498         protected,public,pure,ref,return,shared,static,struct,super,
3499         switch,synchronized,template,this,throw,true,try,typedef,typeid,
3500         typeof,union,unittest,volatile,while,with
3501     },
3502     morekeywords=[2]{enforce},
3503     morekeywords=[3]{
3504         __DATE__,__EOF__,__FILE__,__LINE__,__TIMESTAMP__,__TIME__,__VENDOR__,
3505         __VERSION__,__ctfe__,__gshared__,__monitor__,__thread__,__vptr__,__argptr,
3506         _arguments,_ctor,_dtor
3507     },
3508     morekeywords=[4]{

```

```

3509     byte,ubyte,short,ushort,int,uint,long,ulong,cent,ucent,void,
3510     bool,bit,float,double,real,char,wchar,dchar,string,wstring,dstring,
3511     ireal,ifloat,idouble,creal,cfloat,cdouble,size_t,ptrdiff_t,
3512     sizediff_t,equals_t,hash_t
3513 },
3514 morestring=[b]{"},
3515 morestring=[b]{'},
3516 morestring=[b]{'},
3517 comment=[l]{//},
3518 morecomment=[s]{/*}{*/},
3519 morecomment=[s][\color{blue}]{/**}{*/},
3520 morecomment=[n]{/}{+}{+},
3521 morecomment=[n][\color{rgb}{0,0,0.75}]{/++}{++},
3522 sensitive=true
3523 }
3524
3525 %--- Dart ---%
3526 \lstdefinelanguage{Dart}{
3527     morekeywords={
3528         abstract,as,assert,async,await,break,case,catch,class,const,continue,
3529         covariant,default,deferred,do,dynamic,else,enum,export,extends,extension,
3530         external,factory,false,final,finally,for,Function,get,hide,if,implements,
3531         import,in,interface,is,late,library,mixin,new,null,on,operator,part,
3532         required,throw,return,set,show,static,super,switch,sync,this,throw,
3533         true,try,typedef,var,void,while,with,yield
3534     },
3535     sensitive=true,
3536     morecomment=[l]{//},
3537     morecomment=[s]{/*}{*/},
3538     morestring=[b]{"},
3539     morestring=[b]{'}'
3540 }
3541
3542 %--- Dockerfile ---%
3543 \lstdefinelanguage{Docker}{
3544     morekeywords={
3545         FROM,MAINTAINER,RUN,CMD,LABEL,EXPOSE,ENV,ADD,COPY,ENTRYPOINT,VOLUME,USER,WORKDIR,ARG
3546     },
3547     sensitive=true,
3548     morecomment=[l]{\#},
3549     morestring=[b]{"},
3550     morestring=[b]{'}'
3551 }
3552
3553 %--- F# ---%
3554 \lstdefinelanguage{FSharp}{
3555     morekeywords={let,new,match,with,rec,open,module,namespace,type,of,member,and,for,in,do,
3556     sensitive=false,
3557     morecomment=[l][\color{greencomments}]{///},
3558     morecomment=[l][\color{greencomments}]{//},
3559     morecomment=[s][\color{greencomments}]{(*}{*)},
3560     morestring=[b]"
3561 }
3562

```

```

3563 %--- GDScript (Godot) ---%
3564 \lstdefinelanguage{GDScript}{
3565     morekeywords={
3566         and,in,not,or,as,assert,break,class,class_name,const,continue,elif,else,enum,export,
3567         func,if,is,onready,pass,preload,return,setget,signal,static,tool,var,while,yield
3568     },
3569     sensitive=true,
3570     morecomment=[l]{\#},
3571     morecomment=[s]{""}{""},
3572     morestring=[b]{"},
3573     morestring=[b]{'}
3574 }
3575
3576 %--- GLSL (OpenGL Shading Language) ---%
3577 \lstdefinelanguage{GLSL}{
3578     morekeywords={
3579         attribute,const,uniform,varying,buffer,shared,coherent,volatile,restrict,readonly,wr
3580         atomic_uint,layout,centroid,flat,smooth,noperspective,patch,sample,break,continue,do
3581         switch,case,default,if,else,subroutine,in,out,inout,float,double,int,void,bool,true,
3582         invariant,discard,return,mat2,mat3,mat4,dmat2,dmat3,dmat4,mat2x2,mat2x3,mat2x4,mat3x
3583         mat3x4,mat4x2,mat4x3,mat4x4,dmat2x2,dmat2x3,dmat2x4,dmat3x2,dmat3x3,dmat3x4,dmat4x2,
3584         dmat4x4,vec2,vec3,vec4,ivec2,ivec3,ivec4,bvec2,bvec3,bvec4,dvec2,dvec3,dvec4,uint,uv
3585         uvec4,lowp,mediump,highp,precision,sampler1D,sampler2D,sampler3D,samplerCube,sampler
3586         sampler2DShadow,samplerCubeShadow,sampler1DArray,sampler2DArray,sampler1DArrayShadow
3587         isampler1D,isampler2D,isampler3D,isamplerCube,isampler1DArray,isampler2DArray,usampl
3588         usampler3D,usamplerCube,usampler1DArray,usampler2DArray,sampler2DRect,sampler2DRectS
3589         usampler2DRect,samplerBuffer,isamplerBuffer,usamplerBuffer,sampler2DMS,isampler2DMS,
3590         sampler2DMSArray,isampler2DMSArray,usampler2DMSArray,samplerCubeArray,samplerCubeArr
3591         isamplerCubeArray,usamplerCubeArray,image1D,iimage1D,uimage1D,image2D,iimage2D,uimag
3592         iimage3D,uimage3D,image2DRect,iimage2DRect,uimage2DRect,imageCube,iimageCube,uimageC
3593         iimageBuffer,uimageBuffer,image1DArray,iimage1DArray,uimage1DArray,image2DArray,iima
3594         image2DMS,iimage2DMS,uimage2DMS,image2DMSArray,iimage2DMSArray,uimage2DMSArray,struct
3595     },
3596     sensitive=true,
3597     morecomment=[l]{//},
3598     morecomment=[s]{/*}{*/},
3599     morestring=[b]{"},
3600     morestring=[b]{'}
3601 }
3602
3603 %--- HLSL (High-Level Shading Language) ---%
3604 \lstdefinelanguage{HLSL}{
3605     morekeywords={
3606         AppendStructuredBuffer,asm,asm_fragment,BlendState,bool,break,Buffer,ByteAddressBuffer
3607         centroid,class,column_major,compile,compile_fragment,CompileShader,const,continue,Comp
3608         ConsumeStructuredBuffer,default,DepthStencilState,DepthStencilView,discard,do,double,D
3609         dword,else,export,extern,false,float,for,fxgroup,GeometryShader,groupshared,half,Hulls
3610         inline,inout,InputPatch,int,interface,line,lineadj,linear,LineStream,matrix,min16float
3611         min16int,min12int,min16uint,namespace,nointerpolation,noperspective,NULL,out,OutputPat
3612         pass,pixelfragment,PixelShader,point,PointStream,precise,RasterizerState,RenderTargetV
3613         register,row_major,RWBuffer,RWByteAddressBuffer,RWStructuredBuffer,RWTexture1D,RWTextu
3614         RWTexture2D,RWTexture2DArray,RWTexture3D,sample,sampler,SamplerState,SamplerComparison
3615         snorm,stateblock,stateblock_state,static,string,struct,switch,StructuredBuffer,tbuffer
3616         technique10,technique11,texture,Texture1D,Texture1DArray,Texture2D,Texture2DArray,Text

```

```

3617 Texture2DMSArray,Texture3D,TextureCube,TextureCubeArray,true,typedef,triangle,triangle
3618 TriangleStream,uint,uniform,unorm,unsigned,vector,vertexfragment,VertexShader,void,vol
3619 },
3620 sensitive=true,
3621 morecomment=[l]{//},
3622 morecomment=[s]{/*}{*/},
3623 morestring=[b]{"},
3624 morestring=[b]{'}
3625 }
3626
3627 %--- (3) JVM ecosystem ---%
3628 %--- Java dialek (Java 9, ContextJ, DeltaJ, FOP) ---%
3629 \lstdefinlanguage[v9]{Java}[]{}{Java}{
3630     morekeywords={module,requires,provides,with,exports,local,optional,service}
3631 }
3632 \lstdefinlanguage[ContextJ]{Java}[]{}{Java}{
3633     morekeywords={layer,with,without,proceed,before,after}
3634 }
3635 \lstdefinlanguage[DeltaJ]{Java}[]{}{Java}{
3636     morekeywords={SPL,Features,Deltas,Constraints,Partitions,Products,when}
3637 }
3638 \lstdefinlanguage[FOP]{Java}[]{}{Java}{
3639     morekeywords={refines,original,Super}
3640 }
3641
3642 %--- Groovy ---%
3643 \lstdefinlanguage{Groovy}[]{}{Java}{
3644     keywords=[3]{each,findAll,groupBy,collect,inject,eachWithIndex},
3645     morekeywords={def,as,in,use},
3646     moredelim=[is][\textcolor{darkgray}]{\%\%}{\%\%},
3647     moredelim=[il][\textcolor{darkgray}]{\$\$}
3648 }
3649
3650 %--- Kotlin ---%
3651 \lstdefinlanguage{Kotlin}{
3652     comment=[l]{//},
3653     commentstyle={\color{darkgray}\ttfamily},
3654     emph={filter,first,firstOrNull,forEach,lazy,map,mapNotNull,println},
3655     emphstyle={\color{BrickRed}},
3656     identifierstyle=\color{black},
3657     keywords={!in,!is,abstract,actual,annotation,as,as?,break,by,catch,class,companion,const,c
3658     keywordstyle={\color{NavyBlue}\bfseries},
3659     morecomment=[s]{/*}{*/},
3660     morestring=[b]",
3661     morestring=[s]{""}{*""},
3662     ndkeywords={@Deprecated,@JvmField,@JvmName,@JvmOverloads,@JvmStatic,@JvmSynthetic,Array,By
3663     ndkeywordstyle={\color{Mahogany}\bfseries},
3664     sensitive=true,
3665     stringstyle={\color{OliveGreen}\ttfamily},
3666 }
3667
3668 %--- (4) Script and functional languages ---%
3669 %--- JavaScript / ECMAScript2015 / TypeScript ---%
3670 \lstdefinlanguage[ECMAScript2015]{JavaScript}[]{}{JavaScript}{

```

```

3671 morekeywords=[1]{await,async,case,catch,class,const,default,do,
3672   enum,export,extends,finally,from,implements,import,instanceof,
3673   let,static,super,switch,throw,try},
3674 morestring=[b] `
3675 }
3676 \lstdefinelanguage{JavaScript}{
3677   morekeywords=[1]{break,continue,delete,else,for,function,if,in,
3678     new,return,this,typeof,var,void,while,with},
3679   morekeywords=[2]{false,null,true,boolean,number,undefined,
3680     Array,Boolean,Date,Math,Number,String,Object},
3681   morekeywords=[3]{eval,parseInt,parseFloat,escape,unescape},
3682   sensitive,
3683   morecomment=[s]{/*}{*/},
3684   morecomment=[l]{//},
3685   morecomment=[s]{/**}{*/},
3686   morestring=[b] ',
3687   morestring=[b] "
3688 }[keywords,comments,strings]
3689 \lstalias[] {ES6} [ECMAScript2015] {JavaScript}
3690 \lstalias[] {TypeScript} [ECMAScript2015] {JavaScript}
3691 \lstalias[] {TS} [ECMAScript2015] {JavaScript}
3692 \lstalias[] {JS} [] {JavaScript}
3693
3694 %--- Julia ---%
3695 \lstdefinelanguage{Julia}{
3696   morekeywords={abstract,break,case,catch,const,continue,do,else,elseif,
3697     end,export,false,for,function,immutable,import,importall,if,in,
3698     macro,module,otherwise,quote,return,switch,true,try,type,typealias,
3699     using,while},
3700   sensitive=true,
3701   alsoother={\$},
3702   morecomment=[l]\#,
3703   morecomment=[n]{\#}={\#},
3704   morestring=[s]{"}{"},
3705   morestring=[m]{'}{'},
3706 }[keywords,comments,strings]
3707
3708 %--- Clojure ---%
3709 \lstdefinelanguage{Clojure}[] {Lisp}{
3710   morekeywords={*,*1,*2,*3,*agent*,*allow-unresolved-vars*,*assert*,*clojure-version*,
3711     *command-line-args*,*compile-files*,*compile-path*,*e*,*err*,*file*,
3712     *flush-on-newline*,*in*,*macro-meta*,*math-context*,*ns*,*out*,*print-dup*,
3713     *print-length*,*print-level*,*print-meta*,*print-readably*,*read-eval*,
3714     *source-path*,*use-context-classloader*,*warn-on-reflection*,+,-,->,->>,.../,
3715     :else,<,<=,=,==,>,>=,@,accessor,aclone,add-classpath,add-watch,agent,
3716     agent-errors,aget,alength,alias,all-ns,alter,alter-meta!,alter-var-root,amap,
3717     ancestors,and,apply,areduce,array-map,aset,aset-boolean,aset-byte,aset-char,
3718     aset-double,aset-float,aset-int,aset-long,aset-short,assert,assoc,assoc!,
3719     assoc-in,associative?,atom,await,await-for,await1,bases,bean,bigdec,bigint,
3720     binding,bit-and,bit-and-not,bit-clear,bit-flip,bit-not,bit-or,bit-set,
3721     bit-shift-left,bit-shift-right,bit-test,bit-xor,boolean,boolean-array,
3722     booleans,bound-fn,bound-fn*,butlast,byte,byte-array,bytes,cast,char,
3723     char-array,char-escape-string,char-name-string,char?,chars,chunk,chunk-append,
3724     chunk-buffer,chunk-cons,chunk-first,chunk-next,chunk-rest,chunked-seq?,class,

```

```

3725 class?,clear-agent-errors,clojure-version,coll?,comment,commute,comp,
3726 comparator,compare,compare-and-set!,compile,complement,concat,cond,condp,
3727 conj,conj!,cons,constantly,construct-proxy,contains?,count,counted?,
3728 create-ns,create-struct,cycle,dec,decimal?,declare,def,definline,defmacro,
3729 defmethod,defmulti,defn,defn-,defonce,defprotocol,defstruct,deftype,delay,
3730 delay?,deliver,deref,derive,descendants,destructure,disj,disj!,dissoc,dissoc!,
3731 distinct,distinct?,do,doall,doc,dorun,doseq,dosync,dotimes,doto,double,
3732 double-array,doubles,drop,drop-last,drop-while,empty,empty?,ensure,
3733 enumeration-seq,eval,even?,every?,false,false?,ffirst,file-seq,filter,
3734 finally,find,find-doc,find-ns,find-var,first,float,float-array,float?,
3735 floats,flush,fn,fn?,fnext,for,force,format,future,future-call,future-cancel,
3736 future-cancelled?,future-done?,future?,gen-class,gen-interface,gensym,get,
3737 get-in,get-method,get-proxy-class,get-thread-bindings,get-validator,hash,
3738 hash-map,hash-set,identical?,identity,if,if-let,if-not,ifn?,import,in-ns,
3739 inc,init-proxy,instance?,int,int-array,integer?,interleave,intern,interpose,
3740 into,into-array,ints,io!,isa?,iterate,iterator-seq,juxt,key,keys,keyword,
3741 keyword?,last,lazy-cat,lazy-seq,let,letfn,line-seq,list,list*,list?,load,
3742 load-file,load-reader,load-string,loaded-libs,locking,long,long-array,longs,
3743 loop,macroexpand,macroexpand-1,make-array,make-hierarchy,map,map?,mapcat,
3744 max,max-key,memfn,memoize,merge,merge-with,meta,method-sig,methods,min,
3745 min-key,mod,monitor-enter,monitor-exit,name,namespace,neg?,new,newline,next,
3746 nfirst,nil,nil?,nnext,not,not-any?,not-empty,not-every?,not=,ns,ns-aliases,
3747 ns-imports,ns-interns,ns-map,ns-name,ns-publics,ns-refers,ns-resolve,
3748 ns-unalias,ns-unmap,nth,nthnext,num,number?,odd?,or,parents,partial,partition,
3749 pcalls,peek,persistent!,pmap,pop,pop!,pos?,pr,pr-str,prefer-method,prefer,
3750 print,print-str,printf,println,println-str,prn,prn-str,promise,proxy,
3751 push-thread-bindings,pvalues,quot,rand,rand-int,range,ratio?,rational?,
3752 rationalize,re-find,re-groups,re-matcher,re-matches,re-pattern,re-seq,read,
3753 read-line,read-string,recur,reduce,ref,ref-history-count,ref-max-history,
3754 ref-min-history,ref-set,refer,refer-clojure,reify,release-pending-sends,rem,
3755 remove,remove-method,remove-ns,remove-watch,repeat,repeatedly,replace,
3756 replicate,require,reset!,reset-meta!,resolve,rest,resultset-seq,reverse,
3757 reversible?,rseq,rsubseq,second,select-keys,send,send-off,seq,seq?,seque,
3758 sequence,sequential?,set,set!,set-validator!,set?,short,short-array,shorts,
3759 shutdown-agents,slurp,some,sort,sort-by,sorted-map,sorted-map-by,sorted-set,
3760 sorted-set-by,sorted?,split-at,split-with,str,stream?,string?,struct,
3761 struct-map,subs,subseq,subvec,supers,swap!,symbol,symbol?,sync,take,
3762 take-last,take-nth,take-while,test,the-ns,throw,time,to-array,to-array-2d,
3763 trampoline,transient,tree-seq,true,true?,try,type,unchecked-add,unchecked-dec,
3764 unchecked-divide,unchecked-inc,unchecked-multiply,unchecked-negate,
3765 unchecked-remainder,unchecked-subtract,underive,unquote,unquote-splicing,
3766 update-in,update-proxy,use,val,vals,var,var-get,var-set,var?,vary-meta,vec,
3767 vector,vector?,when,when-first,when-let,when-not,while,with-bindings,
3768 with-bindings*,with-in-str,with-loading-context,with-local-vars,with-meta,
3769 with-open,with-out-str,with-precision,xml-seq,zero?,zipmap},
3770 sensitive,
3771 alsodigit=-,
3772 morecomment=[l];,
3773 morestring=[b]"
3774 }[keywords,comments,strings]
3775
3776 %--- Scheme ---%
3777 \lst@definlanguage[Scheme]{Lisp}{
3778   morekeywords=[1]{define,define-syntax,define-macro,lambda,define-stream,stream-lambda},

```

```

3779 morekeywords=[2]{begin,call-with-current-continuation,call/cc,
3780 call-with-input-file,call-with-output-file,case,cond,
3781 do,else,for-each,if,
3782 let*,let,let-syntax,letrec,letrec-syntax,
3783 let-values,let*-values,
3784 and,or,not,delay,force,
3785 quasiquote,quote,unquote,unquote-splicing,
3786 map,fold,syntax,syntax-rules,eval,environment,query},
3787 morekeywords=[3]{import,export},
3788 alsodigit=!\"$%&*+-./:<=>?@^_~,
3789 sensitive=true,
3790 morecomment=[1]{;},
3791 morecomment=[s]{\#|}{|\#},
3792 morestring=[b]",
3793 basicstyle=\small\ttfamily,
3794 keywordstyle=\bf\ttfamily\color{rgb}{0,.3,.7},
3795 commentstyle=\color{OliveGreen},
3796 stringstyle={\color{BrickRed}},
3797 upquote=true,
3798 literate={\'}{{\'}{1}}
3799 }
3800
3801 %--- Markdown ---%
3802 \lstdefinlanguage{Markdown}{
3803   morekeywords={
3804     \#, \#\#, \#\#\#, \#\#\#\#, \#\#\#\#\#, \#\#\#\#\#\#, *, **, ***, -, +, >, _, __, ', ' ' '
3805   },
3806   sensitive=false,
3807   morecomment=[1]{<!--},
3808   morecomment=[s]{<!--}{-->},
3809   morestring=[b]{"},
3810   morestring=[b]{'}
3811 }
3812
3813 %--- PowerShell ---%
3814 \lstdefinlanguage{PowerShell}{
3815   morekeywords={
3816     Add-Content, Add-PSSnapin, Clear-Content, Clear-History, Clear-Host, Clear-Item,
3817     Clear-ItemProperty, Clear-Variable, Compare-Object, Connect-PSSession,
3818     ConvertFrom-String, Convert-Path, Copy-Item, Copy-ItemProperty,
3819     Disable-PSBreakpoint, Disconnect-PSSession, Enable-PSBreakpoint,
3820     Enter-PSSession, Exit-PSSession, Export-Alias, Export-Csv, Export-PSSession,
3821     ForEach-Object, Format-Custom, Format-Hex, Format-List, Format-Table,
3822     Format-Wide, Get-Alias, Get-ChildItem, Get-Clipboard, Get-Command,
3823     Get-ComputerInfo, Get-Content, Get-History, Get-Item, Get-ItemProperty,
3824     Get-ItemPropertyValue, Get-Job, Get-Location, Get-Member, Get-Module,
3825     Get-Process, Get-PSBreakpoint, Get-PSCallStack, Get-PSDrive, Get-PSSession,
3826     Get-PSSnapin, Get-Service, Get-TimeZone, Get-Unique, Get-Variable,
3827     Get-WmiObject, Group-Object, help, Import-Alias, Import-Csv, Import-Module,
3828     Import-PSSession, Invoke-Command, Invoke-Expression, Invoke-History,
3829     Invoke-Item, Invoke-RestMethod, Invoke-WebRequest, Invoke-WmiMethod,
3830     Measure-Object, mkdir, Move-Item, Move-ItemProperty, New-Alias, New-Item,
3831     New-Module, New-PSDrive, New-PSSession, New-PSSessionConfigurationFile,
3832     New-Variable, Out-GridView, Out-Host, Out-Printer, Pop-Location,

```

```

3833 powershell_ise.exe,Push-Location,Receive-Job,Receive-PSSession,
3834 Remove-Item,Remove-ItemProperty,Remove-Job,Remove-Module,
3835 Remove-PSBreakpoint,Remove-PSDrive,Remove-PSSession,Remove-PSSnapin,
3836 Remove-Variable,Remove-WmiObject,Rename-Item,Rename-ItemProperty,
3837 Resolve-Path,Resume-Job,Select-Object,Select-String,Set-Alias,
3838 Set-Clipboard,Set-Content,Set-Item,Set-ItemProperty,Set-Location,
3839 Set-PSBreakpoint,Set-TimeZone,Set-Variable,Set-WmiInstance,Show-Command,
3840 Sort-Object,Start-Job,Start-Process,Start-Service,Start-Sleep,Stop-Job,
3841 Stop-Process,Stop-Service,Suspend-Job,Tee-Object,Trace-Command,Wait-Job,
3842 Where-Object,Write-Output
3843 },
3844 morekeywords={Do,Else,For,ForEach,Function,If,In,Until,While},
3845 alsodigit={-},
3846 sensitive=false,
3847 morecomment=[l]{\#},
3848 morecomment=[n]{<\#}{\#>},
3849 morestring=[b]{"},
3850 morestring=[b]{'},
3851 morestring=[s]{@'}{'@},
3852 morestring=[s]{@""}{"@"}
3853 }
3854
3855 %--- (5) Compiled and general-purpose languages ---%
3856 %--- Rust ---%
3857 \lstdefinelanguage{Rust}{
3858     sensitive,
3859     morecomment=[l]{//},
3860     morecomment=[s]{/*}{*/},
3861     moredelim=[s][\itshape\color{rgb}{0,0,0.75}}{\#[]{}},
3862     morestring=[b]{"},
3863     alsodigit={},
3864     alsoother={},
3865     alsoletter=!},
3866     morekeywords={break,continue,else,for,if,in,loop,match,return,while},
3867     morekeywords={as,const,let,move,mult,ref,static},
3868     morekeywords={dyn,enum,fn,impl,Self,self,struct,trait,type,union,use,where},
3869     morekeywords={crate,extern,mod,pub,super},
3870     morekeywords={unsafe},
3871     morekeywords={abstract,alignof,become,box,do,final,macro,offsetof,override,priv,proc,pure,
3872     morekeywords=[2]{Add,AddAssign,Any,AsMut,AsRef,Binary,BitAnd,BitAndAssign,BitOr,BitOrAssign
3873     morekeywords=[3]{bool,char,f32,f64,i8,i16,i32,i64,usize,str,u8,u16,u32,u64,unit,usize,i128
3874     morekeywords=[4]{Err,false,None,Ok,Some,true},
3875     morekeywords=[5]{assert!,assert_eq!,assert_ne!,cfg!,column!,compile_error!,concat!,debug_a
3876 }
3877
3878 %--- Scala ---%
3879 \lstdefinelanguage{Scala}{
3880     morekeywords={
3881         abstract,case,catch,class,def,do,else,extends,
3882         false,final,finally,for,forSome,if,implicit,import,lazy,
3883         match,new,null,object,override,package,private,protected,
3884         return,sealed,super,this,throw,trait,true,try,type,
3885         val,var,while,with,yield},
3886     otherkeywords={=>,<-,<\%,<:,>:, \#, @},

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3887     sensitive=true,
3888     morecomment=[l]{//},
3889     morecomment=[n]{/*}{*/},
3890     morestring=[b]",
3891     morestring=[b]',
3892     morestring=[b]"""
3893 }[keywords,comments,strings]
3894
3895 %--- Solidity ---%
3896 \lstdefinlanguage{Solidity}{
3897     keywords=[1]{anonymous,assembly,assert,balance,break,call,callcode,case,catch,class,
3898         constant,continue,constructor,contract,debugger,default,delegatecall,delete,
3899         do,else,emit,event,experimental,export,external,false,finally,for,function,gas,
3900         if,implements,import,in,indexed,instanceof,interface,internal,is,length,library,
3901         log0,log1,log2,log3,log4,memory,modifier,new,payable,pragma,private,protected,
3902         public,pure,push,require,return,returns,revert,selfdestruct,send,solidity,storage,
3903         struct,suicide,super,switch,then,this,throw,transfer,true,try,typeof,using,value,
3904         view,while,with,addmod,ecrecover,keccak256,mulmod,ripemd160,sha256,sha3},
3905     keywordstyle=[1]\color{NavyBlue}\bfseries,
3906     keywords=[2]{address,bool,byte,bytes,bytes1,bytes2,bytes3,bytes4,bytes5,bytes6,bytes7,
3907         bytes8,bytes9,bytes10,bytes11,bytes12,bytes13,bytes14,bytes15,bytes16,bytes17,
3908         bytes18,bytes19,bytes20,bytes21,bytes22,bytes23,bytes24,bytes25,bytes26,bytes27,
3909         bytes28,bytes29,bytes30,bytes31,bytes32,enum,int,int8,int16,int24,int32,int40,
3910         int48,int56,int64,int72,int80,int88,int96,int104,int112,int120,int128,int136,
3911         int144,int152,int160,int168,int176,int184,int192,int200,int208,int216,int224,
3912         int232,int240,int248,int256,mapping,string,uint,uint8,uint16,uint24,uint32,
3913         uint40,uint48,uint56,uint64,uint72,uint80,uint88,uint96,uint104,uint112,uint120,
3914         uint128,uint136,uint144,uint152,uint160,uint168,uint176,uint184,uint192,uint200,
3915         uint208,uint216,uint224,uint232,uint240,uint248,uint256,var,void,ether,finney,
3916         szabo,wei,days,hours,minutes,seconds,weeks,years},
3917     keywordstyle=[2]\color{teal}\bfseries,
3918     keywords=[3]{block,blockhash,coinbase,difficulty,gaslimit,number,timestamp,msg,data,gas,
3919     keywordstyle=[3]\color{Plum}\bfseries,
3920     identifierstyle=\color{black},
3921     sensitive=true,
3922     comment=[l]{//},
3923     morecomment=[s]{/*}{*/},
3924     commentstyle=\color{darkgray}\ttfamily,
3925     stringstyle=\color{BrickRed}\ttfamily,
3926     morestring=[b]',
3927     morestring=[b]"
3928 }
3929
3930 %--- Swift ---%
3931 \lstdefinlanguage{Swift}{
3932     morekeywords={
3933         open,catch,@escaping,nil,throws,func,if,then,else,for,in,while,do,switch,case,
3934         default,where,break,continue,fallthrough,return,typealias,struct,class,enum,
3935         protocol,var,func,let,get,set,willSet,didSet,inout,init,deinit,extension,
3936         subscript,prefix,operator,infix,postfix,precedence,associativity,left,right,none,
3937         convenience,dynamic,final,lazy,mutating,nonmutating,optional,override,required,
3938         static,unowned,safe,weak,internal,private,public,is,as,self,unsafe,dynamicType,
3939         true,false,nil,Type,Protocol,
3940     },

```

```

3941 morecomment=[l]{//},
3942 morecomment=[s]{/*}{*/},
3943 morestring=[b]",
3944 escapeinside={\%*}{*)}
3945 }
3946
3947 %--- (6) Config and data formats ---%
3948 %--- TOML ---%
3949 \lstdefinelanguage{TOML}{
3950     morekeywords={true,false,inf,nan,datetime},
3951     sensitive=true,
3952     morecomment=[l]{\#},
3953     morestring=[b]{"},
3954     morestring=[b]{'}
3955 }
3956
3957 %--- YAML ---%
3958 \lstdefinelanguage{YAML}{
3959     morekeywords={true,false,null,NULL,~,yes,no,on,off},
3960     sensitive=false,
3961     morecomment=[l]{\#},
3962     morestring=[b]{"},
3963     morestring=[b]{'}
3964 }
3965
3966 %=====
3967 % HOOK \AtBeginDocument
3968 %=====
3969
3970 \AtBeginDocument{%
3971     % Install addtocontents filter after package-level patches (e.g., biblatex).
3972     \let\addtocontents\UI@addtocontents
3973     % Keep ToC chapter spacing toggle in sync with list separator toggle.
3974     \UI@applytocchapterseparatorspaceing
3975     % Keep chapter transition spacing consistent across all list pages.
3976     % Apply only on numbered chapters (\@chapter), matching ToC/LoF/LoT behavior.
3977     \pretocmd{\@chapter}{\UI@addchapterlistseparatorspaceing}{-}{-}%
3978     % Patch \appendix: otomatis set \noCAPinToC dan sisipkan halaman pemisah
3979     % (halaman pemisah hanya muncul pada format monograf).
3980     \let\UI@orig@appendix\appendix%
3981     \renewcommand\appendix{%
3982         \noCAPinToC%
3983         \if@UImonograph
3984             \makeappendixseparator%
3985         \else
3986             \clearpage
3987         \fi
3988         \UI@orig@appendix%
3989     }%
3990     % Penamaan ulang string standar LaTeX
3991     \if@UIenglish
3992         \renewcommand{\bibname}{References}%
3993         \renewcommand{\contentsname}{Table of Contents}%
3994         \renewcommand{\listfigurename}{List of Figures}%

```

```

3995 \renewcommand{\listtablename}{List of Tables}%
3996 \renewcommand{\lstlistlistingname}{List of Code Listings}%
3997 \else
3998 \renewcommand{\bibname}{Daftar Referensi}%
3999 \renewcommand{\contentsname}{Daftar Isi}%
4000 \renewcommand{\listfigurename}{Daftar Gambar}%
4001 \renewcommand{\listtablename}{Daftar Tabel}%
4002 \renewcommand{\lstlistlistingname}{Daftar Kode Program}%
4003 \fi
4004 % Judul Daftar Istilah (glossaries-extra): disesuaikan per bahasa
4005 \if@UIenglish
4006 \renewcommand{\glossaryname}{Glossary}%
4007 \if@UImonograph\renewcommand{\acronymname}{Glossary}\fi%
4008 \else
4009 \renewcommand{\glossaryname}{Daftar Istilah}%
4010 \if@UImonograph\renewcommand{\acronymname}{Daftar Istilah}\fi%
4011 \fi
4012 % Setelah preamble, \kota tanpa argumen mengembang menjadi nama kota aktif.
4013 \let\kota\UI@kota
4014 % Varian huruf kapital -> dievaluasi saat digunakan agar perubahan metadata tetap tereflek
4015 \def\Judul{\MakeUppercase{\judul}}%
4016 \def\JudulInggris{\MakeUppercase{\judulInggris}}%
4017 \def\Type{\MakeUppercase{\UI@type}}%
4018 \def\PenulisSatu{\MakeUppercase{\penulisSatu}}%
4019 \def\PenulisDua{\MakeUppercase{\penulisDua}}%
4020 \def\PenulisTiga{\MakeUppercase{\penulisTiga}}%
4021 \def\Fakultas{\MakeUppercase{\UI@facultyDisplay}}%
4022 \def\ProgramSatu{\UI@StudyProgramSatuDisplay}%
4023 \def\ProgramDua{\UI@StudyProgramDuaDisplay}%
4024 \def\ProgramTiga{\UI@StudyProgramTigaDisplay}%
4025 % Compatibility aliases for manually-capitalized study-program macros.
4026 \def\StudyProgramSatu{\UI@StudyProgramSatuDisplay}%
4027 \def\StudyProgramDua{\UI@StudyProgramDuaDisplay}%
4028 \def\StudyProgramTiga{\UI@StudyProgramTigaDisplay}%
4029 \let\Penulis\PenulisSatu
4030 \let\Program\ProgramSatu
4031 % Format titik-titik di daftar isi (tocloft)
4032 \renewcommand{\cftpartleader}{\cftdotfill{\cftdotsep}}%
4033 \renewcommand{\cftchappleader}{\cftdotfill{\cftdotsep}}%
4034 \renewcommand{\cftchapaftersnum}{.}%
4035 % Format daftar gambar
4036 \renewcommand{\cftfigindent}{0pt}%
4037 \renewcommand{\cftfignumwidth}{70pt}%
4038 \renewcommand{\cftfigaftersnum}{.}%
4039 \renewcommand{\cftfigpresnum}{\pic~}%
4040 % Format daftar tabel
4041 \renewcommand{\cfttabindent}{0pt}%
4042 \renewcommand{\cfttabnumwidth}{60pt}%
4043 \renewcommand{\cfttabaftersnum}{.}%
4044 \renewcommand{\cfttabpresnum}{\tab~}%
4045 }
4046
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4048 % HOOK \AtEndDocument (menyimpan jumlah entri daftar ke run kompilasi berikutnya)

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4051 \AtEndDocument{%
4052   % Write all registered list counts to main .aux for the NEXT run.
4053   % Contributor note: use \immediate\write so values are present even when
4054   % build tools stop after this pass and rerun separately.
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4061   }%
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4065 }%
4066 }
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4069 %=====
4070 %   Akhir dari uithesis.cls
4071 %=====
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