



NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

**SCHOOL OF SCIENCES
DEPARTMENT OF INFORMATICS AND TELECOMMUNICATIONS**

POSTGRADUATE STUDIES

MASTER THESIS

MsC Thesis Template

Panayiotis I. Vlantis

Supervisor: Alex Delis, Professor

ATHENS

JULY 2018



ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

**ΣΧΟΛΗ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ
ΤΜΗΜΑ ΠΛΗΡΟΦΟΡΙΚΗΣ ΚΑΙ ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ**

ΠΡΟΓΡΑΜΜΑ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΣΠΟΥΔΩΝ

ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ

Πρότυπο για Διπλωματικές Εργασίες

Παναγιώτης Ι. Βλαντής

ΕΠΙΒΛΕΠΩΝ: Αλέξης Δελής, Καθηγητής

ΑΘΗΝΑ

ΙΟΥΛΙΟΣ 2018

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Maria Roussou, Assistant Professor

July 2018

ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ

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A.M.: M1387

ΕΠΙΒΛΕΠΩΝ: Αλέξης Δελής, Καθηγητής

ΕΞΕΤΑΣΤΙΚΗ ΕΠΙΤΡΟΠΗ: Αλέξης Δελής, Καθηγητής
Μαρία Ρούσσου, Επίκουρη Καθηγήτρια

Ιούλιος 2018

ABSTRACT

English Abstract...

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

SUBJECT AREA:

Big Data

KEYWORDS:

big data, latex, thesis, template

ΠΕΡΙΛΗΨΗ

Περίληψη στα Ελληνικά....

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

ΘΕΜΑΤΙΚΗ ΠΕΡΙΟΧΗ:

Δεδομένα Υψηλής Κλίμακας

ΛΕΞΕΙΣ ΚΛΕΙΔΙΑ:

δεδομένα υψηλής κλίμακας, πρότυπο, διπλωματική

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1. INTRODUCTION

1.1 How to do some things

1.1.1 How to work with figures

I use Inkscape [1] to create figures in SVG format. I prefer working with SVG images but I would like to use their EPS version in the latex document. I achieve that by saving the SVG image in the figures directory and generate the EPS version using inkscape from command line.

```
inkscape --export-eps=figures/build/myimage.eps figures/myimage.svg
```



Figure 1: This photograph of a gull was the first Quality image to be promoted to Featured Pictures status in Wikiedia Commons.

Package todonotes provides inline notes like this.

To add file figures/gull.png as a figure:

```
\begin{figure}[h!]
\centering
\includegraphics[width=0.6\textwidth]{gull}
\caption[Example gull photo]{
  This photograph of a gull was the first Quality
  image to be promoted to Featured Pictures status
  in Wikiedia Commons.
}
\label{fig:gull}
\end{figure}
```

1.1.2 How to add a table with caption on top

Tables are a common feature in academic writing, often used to summarize research results. Mastering the art of table construction in LaTeX is therefore necessary to produce quality papers and with sufficient practice one can print beautiful tables of any kind. [2]

Table 1: Notice how the table's caption is on top of the table and centered.

Day	Min Temp	Max Temp	Summary
Monday	11C	22C	A clear day with lots of sunshine. However, the strong breeze will bring down the temperatures.
Tuesday	9C	19C	Cloudy with rain, across many northern regions. Clear spells across most of Scotland and Northern Ireland, but rain reaching the far northwest.
Wednesday	10C	21C	Rain will still linger for the morning. Conditions will improve by early afternoon and continue throughout the evening.

```

\begin{table}[h!]
  \centering
  \caption[Example table with caption on top (List of Tables caption)]{
    Notice how the table's caption is on top of the table and centered.
  }
  \begin{tabular}{|p{25mm}|p{20mm}|p{20mm}|p{80mm}|}
    \hline
    Day & Min Temp & Max Temp & Summary \\
    \hline
    Monday & 11C & 22C & A clear day... \\
    \hline
    Tuesday & 9C & 19C & Cloudy with rain... \\
    \hline
    Wednesday & 10C & 21C & Rain will still... \\
    \hline
  \end{tabular}
\end{table}

```

1.1.3 How to add a plot

PGFPlots draws high-quality function plots. The user supplies axis labels, legend entries and the plot coordinates for one or more plots and PGFPlots applies axis scaling, computes any logarithms and axis ticks and draws the plots, supporting line plots, scatter plots, piecewise constant plots, bar plots, area plots, mesh and surface plots and some more [3]. Examples of PGFPlots are available in pgfplots.sourceforge.net/gallery.html

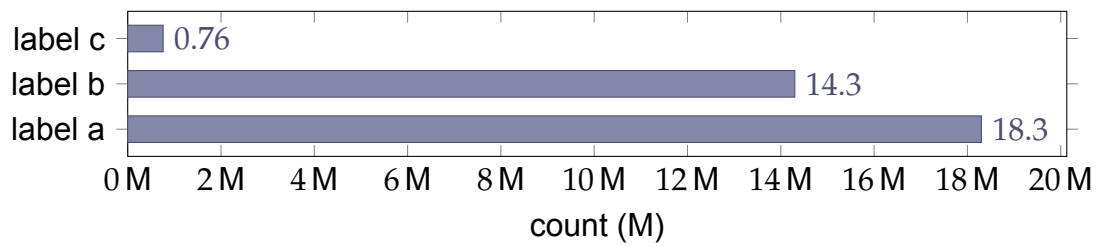


Figure 2: This is a horizontal plot with custom colors. More examples are available in pgfplots.sourceforge.net/gallery.html

1.2 How to build the pdf

Latexmk is used to build the pdf instead of calling xelatex directly. Latexmk is a perl script for running LaTeX *the correct number of times* to resolve cross references, etc; it also runs auxiliary programs like bibtex. Checkout the manual of Latexmk: mg.readthedocs.io/latexmk.html. Its configuration resides in the localfile `.latexmkrc`. There is also a Makefile but it is a wrapper around Latexmk. So either running `make all` or `latexmk` builds the pdf.

APPENDIX A. THESIS CLASS FILE

Minted package is used for code highlighting

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesClass{thesis}[2018/01/01 v3.391 University of Athens, DI Thesis Class]
3 \LoadClass[a4paper,12pt]{report}
4
5 %% This file has three sections:
6 %% line 11: Package Declarations and configurations
7 %% line 150: Formatting of Header, Footer, Section Titles, ToC, LoF, LoT
8 %% line 260: Formatting of the first 4 Titlepages and next 2 Abstract pages
9
10
11 %% Page Margins
12 %
13 \RequirePackage{geometry}
14 \geometry{
15     a4paper,
16     head=12.5mm,
17     foot=12.5mm,
18     bindingoffset=0cm,
19     left=25mm,
20     top=32.5mm,
21     right=20mm,
22     bottom=32.5mm,
23     % marginpar=25mm
24 }
25
26 %% Fonts
27 %
28 \RequirePackage{fontspec}
29 \setmainfont{Arial}
30 % \setsansfont[Scale=MatchLowercase]{DejaVu Sans}
31 \setmonofont[Scale=1]{DejaVu Sans Mono}
32
33 %% Mathematics
34 %
35 \RequirePackage{amsmath}
36 \RequirePackage{unicode-math} %provides \setmathfont{Asana Math}
37 \setmathfont{Asana Math}
38
39 %% Unicode text (XeLaTeX only)
40 %
41 \RequirePackage{xltextra}
42 \RequirePackage{xunicode}
43
44 %% Graphics
45 %
46 \RequirePackage{graphicx}
47 \graphicspath{{./figures/}{./figures/build/}}
48 % Important:
49 % Notice that SVG is not listed in the declared graphics extensions.
50 % This is becaus eps is preferred over svg and all svg images are converted to
51 % eps using Inkscape.
52 \DeclareGraphicsExtensions{.eps,.eps.gz,.png,.jpg}
53
54 %% Colors
55 %
56 \RequirePackage[usenames,dvipsnames,svgnames,table]{xcolor}
57
58 %% Todonotes
59 %
60 \RequirePackage[
61     bordercolor=LightSteelBlue,
62     linecolor=LightSteelBlue,

```

```

63     backgroundcolor=AliceBlue,
64     textsize=footnotesize,
65   ]{todonotes}
66
67   %% Hyperlinks
68   % example: \href{http://twitter.com/home}{Twitter}
69   %
70   \RequirePackage{hyperref}
71
72   %% Format paragraph spacing
73   %
74   \RequirePackage{titlesec}
75   % spacing: how to read {12pt plus 4pt minus 2pt}
76   %           12pt is what we would like the spacing to be
77   %           plus 4pt means that TeX can stretch it by at most 4pt
78   %           minus 2pt means that TeX can shrink it by at most 2pt
79   %           This is one example of the concept of, 'glue', in TeX
80   \titlespacing\paragraph{0pt}{2pt plus 2pt minus 1pt}{12pt}
81
82   %% Sloppy justification.
83   % Makes the text justified but dont expect optimal word spacing
84   %
85   \sloppy
86
87   % Set paragraph spacing
88   \setlength{\parskip}{6pt}
89
90   % Set paragraph indent
91   \setlength{\parindent}{0em}
92
93   %% Embed pdf documents
94   %
95   \RequirePackage[final]{pdfpages}
96
97   %% Code Highlighting
98   %
99   \RequirePackage[outputdir=build]{minted}
100  \setminted[tex]{style=tango}
101
102  %% Appendix
103  %
104  \RequirePackage{appendix}
105
106  %% Cite
107  %
108  \RequirePackage{cite}
109
110  %% Figure and Table captions
111  %
112  \RequirePackage[
113    font=footnotesize,
114    labelfont=bf,
115    textfont=bf,
116    tableposition=top,
117    centerlast
118  ]{caption}
119
120  %% Format Headers and footers
121  %
122  \RequirePackage{fancyhdr}
123
124  %% Inline lists
125  %
126  \RequirePackage{paralist}
127
128  %% Lorem ipsum generated text
129  %
130  \RequirePackage{blindtext}
131  \RequirePackage{lipsum}

```

```

132
133 %% Plots
134 %
135 \RequirePackage{pgfplots}
136 \pgfplotsset{compat=1.13}
137
138 %% Comment out blocks of latex text
139 %
140 \RequirePackage{comment}
141
142 %% Format sectional headings
143 %
144 \RequirePackage{sectsty}
145
146 %% Formatting ToC
147 %
148 \RequirePackage{tocloft}
149
150
151 %%
152 %% Formatting of Header, Footer, Section Titles, ToC, LoF, LoT
153 %%
154
155 %% Configure header and footer
156 %
157 \pagestyle{fancy}
158 \fancyhf{}
159 \lfoot{{\scriptsize \AuthorFooter}}
160 \lhead{{\scriptsize \Header}}
161 \renewcommand{\headrulewidth}{0pt}
162 \renewcommand{\footrulewidth}{0pt}
163 \rfoot{\scriptsize \thepage}
164 \fancypagestyle{plain} {
165     \lfoot{{\scriptsize \AuthorFooter}}
166     \lhead{{\scriptsize \Header}}
167 }
168
169 \newif\ifappendixstarted
170 \appendixstartedfalse
171
172 \def\@makechapterhead#1{
173     {\parindent \z@ \centering
174     \ifappendixstarted
175         {\large \bfseries \MakeUppercase{\@chapapp} \space \thechapter. \MakeUppercase{#1}}
176     \else
177         {\large \bfseries \thechapter. \uppercase{#1}}
178     \fi
179     \par\nobreak
180     \vskip 20\p@
181     }
182 }
183
184 \sectionfont{\fontsize{13}{15}\selectfont}
185 \subsectionfont{\fontsize{12}{13}\selectfont}
186 \renewcommand{\cfttoctitlefont}{\hspace*{\fill}\large\bfseries\MakeUppercase}
187 \renewcommand{\cftaftertoctitle}{\hspace*{\fill}}
188 \renewcommand{\cftlottitlefont}{\hspace*{\fill}\large\bfseries\MakeUppercase}
189 \renewcommand{\cftafterlottitle}{\hspace*{\fill}}
190 \renewcommand{\cftloftitlefont}{\hspace*{\fill}\large\bfseries\MakeUppercase}
191 \renewcommand{\cftafterloftitle}{\hspace*{\fill}}
192 \renewcommand{\cftchapaftersnum}{.\MakeUppercase}
193 \renewcommand{\cftfigpresnum}{Figure }
194 \renewcommand{\cftfigaftersnum}{:}
195 \renewcommand{\cfttabpresnum}{Table}
196 \renewcommand{\cfttabaftersnum}{:}
197
198 %% This is Bad.
199 %% It makes chapter headings uppercase
200 %

```

```

201 % Copy \l@chapter macro from
202 % http://mirror.utexas.edu/ctan/macros/latex/contrib/tocloft/tocloft.dtx
203 % just to add the \MakeUppercase directive
204 %
205 \renewcommand*{\l@chapter}[2]{
206   \ifnum \c@tocdepth >\m@ne
207     \addpenalty{-\@highpenalty}
208     \vskip \cftbeforechapskip
209     {\leftskip \cftchapindent\relax
210      \rightskip \@tocrmarg
211      \parfillskip -\rightskip
212      \parindent \cftchapindent\relax\@afterindenttrue
213      \interlinepenalty\@M
214      \leavevmode
215      \@tempdima \cftchapnumwidth\relax
216      \let\cftbsnum \cftchappresnum
217      \let\cftasnum \cftchapaftersnum
218      \let\cftasnumb \cftchapaftersnumb
219      \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
220      {\cftchapfont \MakeUppercase{#1}}\nobreak
221      \cftchapfillnum{#2}}
222   \fi
223 }
224
225 \renewcommand{\cftsecfont}{\bfseries}
226
227 \cftsetindents{chapter}{0em}{2.4em}
228 \cftsetindents{section}{0em}{2.4em}
229 \cftsetindents{subsection}{1em}{3.1em}
230 \cftsetindents{table}{0em}{4em}
231 \cftsetindents{figure}{0em}{5em}
232 \setlength{\cftparskip}{0.4em}
233 \setlength{\cftbeforechapskip}{2em}
234 \setlength{\cftbeforesecskip}{0.3em}
235
236 \tocloftpagestyle{empty}
237
238 \renewcommand{\cftbeforetoctitleskip}{0em}
239 \renewcommand{\cftbeforeloftitleskip}{0em}
240 \renewcommand{\cftbeforelottitleskip}{0em}
241
242 % Continuous figure and table numbering
243 \RequirePackage{chngcntr}
244 \counterwithout{figure}{chapter}
245 \counterwithout{table}{chapter}
246
247 % https://tex.stackexchange.com/questions/93859
248 \let\oldthebibliography\thebibliography
249 \let\endoldthebibliography\endthebibliography
250 \renewenvironment{thebibliography}[1]{
251   \begin{oldthebibliography}{#1}
252     \setlength{\itemsep}{1pt}
253     \setlength{\parskip}{1pt}
254     \fontsize{10}{10.6}\selectfont
255   }
256 {
257   \end{oldthebibliography}
258 }
259
260 % This is not good but it works
261 \renewcommand\bibname{\large\centerline{REFERENCES}\global\def\bibname{REFERENCES}}
262
263
264 %%
265 %% Formatting of the first 4 Titlepages
266 %% and next 2 Abstract pages
267 %%
268
269 \renewcommand{\title}[2]{

```



```

270 \gdef \Title{#1}
271 \gdef \GreekTitle{#2}
272 }
273
274 \renewcommand{\author}[4]{
275 \gdef\Author{#1}
276 \gdef\GreekAuthor{#2}
277 \gdef\RegistryNumber{#3}
278 \gdef\AuthorFooter{#4}
279 }
280
281 \renewcommand{\date}[3]{
282 \gdef\Date{#1}
283 \gdef\GreekDate{#2}
284 \gdef\GreekDateWithoutAccent{#3}
285 }
286
287 \newcommand{\header}[1]{
288 \gdef\Header{#1}
289 }
290
291 \newcommand{\supervisor}[4]{
292 \gdef\Supervisor{#1}
293 \gdef\SupervisorTitle{#2}
294 \gdef\GreekSupervisor{#3}
295 \gdef\GreekSupervisorTitle{#4}
296 }
297
298 \newcommand{\committee}[8]{
299 \gdef\CommitteeA{#1}
300 \gdef\CommitteeATitle{#2}
301 \gdef\GreekCommitteeA{#3}
302 \gdef\GreekCommitteeATitle{#4}
303 \gdef\CommitteeB{#5}
304 \gdef\CommitteeBTitle{#6}
305 \gdef\GreekCommitteeB{#7}
306 \gdef\GreekCommitteeBTitle{#8}
307 }
308
309 \newcommand{\subject}[2]{
310 \gdef\Subject{#1}
311 \gdef\GreekSubject{#2}
312 }
313
314 \newcommand{\keywords}[2]{
315 \gdef\Keywords{#1}
316 \gdef\GreekKeywords{#2}
317 }
318
319 \renewcommand{\abstract}[2]{
320 \gdef \Abstract{#1}
321 \gdef \GreekAbstract{#2}
322 }
323
324 \renewcommand{\maketitle}{
325
326 \begin{titlepage}
327 \vspace*{-20mm}
328 \begin{center}
329 \includegraphics[height=3.5cm]{figures/logo}
330 \end{center}
331 \begin{center}
332 {\bf \large NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS}
333 \vskip 5mm
334 {\bf SCHOOL OF SCIENCES \\\
335 DEPARTMENT OF INFORMATICS AND TELECOMMUNICATIONS
336 }
337 \vskip 5mm
338 {\bf POSTGRADUATE STUDIES}

```

```

339 \vskip 20mm
340 {\bf MASTER THESIS}
341 \vskip 7mm
342 {\bf \fontsize{16pt}{20pt}\selectfont \Title \par}
343 \vskip 10mm
344 {\bf \Author}
345 \vskip 50mm
346 {\bf Supervisor:} {\bf \Supervisor }, \SupervisorTitle
347 \vfill
348 \vskip 15mm
349 {\bf ATHENS}
350 \vskip 5mm
351 {\bf \MakeUppercase \Date}
352 \vskip 20mm
353 \end{center}
354 \end{titlepage}
355
356 \begin{titlepage}
357 \vspace*{-20mm}
358 \begin{center}
359 \includegraphics[height=3.5cm]{figures/logo}
360 \end{center}
361 \begin{center}
362 {\bf \large ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ}
363 \vskip 5mm
364 {\bf ΣΧΟΛΗ ΘΕΤΙΚΩΝ ΕΠΙΣΤΗΜΩΝ \ \ ΤΜΗΜΑ ΠΛΗΡΟΦΟΡΙΚΗΣ ΚΑΙ ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ}
365 \vskip 5mm
366 {\bf ΠΡΟΓΡΑΜΜΑ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΣΠΟΥΔΩΝ}
367 \vskip 20mm
368 {\bf ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ}
369 \vskip 7mm
370 {\bf \fontsize{16pt}{22pt}\selectfont \GreekTitle \par}
371 \vskip 10mm
372 {\bf \GreekAuthor}
373 \vskip 50mm
374 {\bf ΕΠΙΒΛΕΠΩΝ:} {\bf \GreekSupervisor }, \GreekSupervisorTitle \ \
375 \vfill
376 \vskip 15mm
377 {\bf ΑΘΗΝΑ}
378 \vskip 5mm
379 {\bf \MakeUppercase \GreekDateWithoutAccent}
380 \vskip 20mm
381 \end{center}
382 \end{titlepage}
383
384 \begin{titlepage}
385 \vspace*{-10mm}
386 \begin{center}
387 {\bf MASTER THESIS}
388 \vskip 10mm
389 \Title
390 \vskip 10mm
391 {\bf \Author}\par
392 {\bf R.N.:} \RegistryNumber
393 \vskip 40mm
394 {\bf Supervisor:} {\bf \Supervisor }, \SupervisorTitle
395 \vskip 50mm
396 \begin{tabular}{ll}
397 {\bf THESIS COMMITTEE:}
398 & {\bf \CommitteeA}, \CommitteeATitle \ \
399 & {\bf \CommitteeB}, \CommitteeBTitle
400 \end{tabular}
401 \vfill
402 {\Date}
403 \end{center}
404 \end{titlepage}
405
406 \begin{titlepage}
407 \vspace*{-10mm}

```

```

408     \begin{center}
409         {\bf ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ}
410         \vskip 10mm
411         \Title
412         \vskip 10mm
413         {\bf \GreeksAuthor}\par
414         {\bf A.M.:} \RegistryNumber
415         \vskip 40mm
416         {\bf ΕΠΙΒΛΕΠΩΝ:} {\bf \GreekSupervisor }, \GreekSupervisorTitle
417         \vskip 50mm
418         \begin{tabular}{ll}
419             {\bf ΕΞΕΤΑΣΤΙΚΗ ΕΠΙΤΡΟΠΗ:}
420             & {\bf \GreeksCommitteeA}, \GreeksCommitteeATitle \\
421             & {\bf \GreeksCommitteeB}, \GreeksCommitteeBTitle
422         \end{tabular}
423         \vfill
424         {\GreeksDate}
425     \end{center}
426 \end{titlepage}
427
428 \begin{titlepage}
429     \begin{center}
430         {\bf \fontsize{14pt}{14pt}\selectfont ABSTRACT \par}
431     \end{center}
432     \vspace*{10mm}
433     \Abstract
434     \vfill
435     \begin{tabular}{p{5cm}p{10cm}}
436         {\bf SUBJECT AREA:} & {\bf \Subject} \\
437         {\bf KEYWORDS:} & {\bf \Keywords}
438     \end{tabular}
439 \end{titlepage}
440
441 \begin{titlepage}
442     \begin{center}
443         {\bf \fontsize{14pt}{14pt}\selectfont ΠΕΡΙΛΗΨΗ \par}
444     \end{center}
445     \vspace*{10mm}
446     \GreeksAbstract
447     \vfill
448     \begin{tabular}{p{5cm}p{10cm}}
449         {\bf ΘΕΜΑΤΙΚΗ ΠΕΡΙΟΧΗ:} & {\bf \GreeksSubject} \\
450         {\bf ΛΕΞΕΙΣ ΚΛΕΙΔΙΑ:} & {\bf \GreeksKeywords}
451     \end{tabular}
452 \end{titlepage}
453
454 \setcounter{page}{7}
455
456 \global\let\title\relax
457 \global\let\author\relax
458 \global\let\date\relax
459 \global\let\supervisor\relax
460 \global\let\subject\relax
461 \global\let\keywords\relax
462 \global\let\maketitle\relax
463 \global\let\abstract\relax
464 \global\let\header\relax
465 } % end maketitle

```

REFERENCES

- [1] Inkscape, “Draw Freely.” [Online]. Available: <https://inkscape.org/en/>
- [2] WIKIBOOKS, “Latex tables.” [Online]. Available: <https://en.wikibooks.org/wiki/LaTeX/Tables>
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