UNIVERSITY OF CALIFORNIA,
IRVINE

TITLE OF THE THESIS

DISSERTATION

submitted in partial satisfaction of the requirements
for the degree of

DOCTOR OF PHILOSOPHY

in Informatics

by

Your name

Dissertation Committee:
[Assistant/Associate/Professor] First Last, Chair
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2026

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DEDICATION

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ACKNOWLEDGMENTS

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PUBLICATIONS

LaTeX Tagging Project. Tagging Status of LaTeX Packages and Classes. `https://latex3.github.io/tagging-project/tagging-status/`, 2026.

U. Libraries. (2026). Thesis / Dissertation Formatting Manual (2026).

ABSTRACT OF THE DISSERTATION

Title of the Thesis

By

Your name

Doctor of Philosophy in Informatics

University of California, Irvine, 2026

[Assistant/Associate/Professor] First Last, Chair

The abstract of your contribution goes here.

NOTE: The text must be double-spaced. It is recommended that the text be around 350 words in length. Use indent or flush left at the beginning of paragraphs, depending on the style manual you are following. Include a short statement of the problem you studied, a brief exposition of the methods and procedures employed in gathering the data, and a summary of your findings. No graphs, charts, or tables may be included.

Chapter 1

Introduction

This is an example using the LaTeX template for UCI theses and dissertation documents.

NOTE: All text is double spaced. All text and hyperlinks must be the same font, same font size (10-12pt), and in black colored text. All text must be the same justification, like left justified or fully justified. All text, figures/tables, captions, and equations must fit within the 1-inch margins. After your Abstract, the page numbers reset at 1, 2, 3.

See the UCI Thesis/Dissertation Manual for more information [3].

1.1 LaTeX Tagging Project

This template uses automatic tagging support from the LaTeX Tagging project [2], an ongoing effort by the LaTeX Project to make LaTeX-generated PDFs accessible by default. PDF tags describe the logical structure of the document (e.g., headings, lists, tables, figures, links, etc.), which allows assistive technologies and other tools to interpret the content meaningfully, rather than treating the document as a flat stream of text. The project is building tagging support directly into the LaTeX kernel and core packages, so that much of the doc-

ument structure can be tagged automatically. Authors still need to provide semantic and accessibility information where needed. See chapter 2 for details.

For auto tagging to work correctly, use TEX Live 2025 or newer. For the compiler, LuaLATEX is recommended, as it has the most complete tagging support. pdfLATEX also works with auto tagging but has some limitations. In Overleaf, you can configure the TEX Live version and compiler under Settings → Compiler.

Note that while LATEX tagging support is increasingly capable, the project is still under active development. Most commonly used packages are compatible with auto-tagging, but not all. Before adding a new package, check the Tagging Status of LATEX Packages and Classes [1], which is updated as support evolves.

Chapter 2

Accessibility Information

Accessible documents enable readers who use assistive technologies—such as screen readers, braille displays, or text-to-speech tools—to read and navigate content. This supports people with disabilities, including people who are blind, have low vision, or have other print disabilities. Accessible documents also benefit all readers: well-structured documents are easier to navigate, reflow better on small screens, and can be more reliably parsed by search engines and automated tools.

While this template provides auto-tagging support, it does not make a document fully accessible by itself. Authors still need to use semantic LaTeX commands and provide the information that cannot be inferred automatically, such as alt text for figures and table headers. The following sections include guidance on making content accessible.

2.1 Headings

Use LaTeX sectioning commands to create headings, so that they can be automatically tagged with the correct heading levels in the PDF and displayed by PDF viewers as a document

outline.

- `\thesistitle` creates the top level tag Title
- `\chapter` creates a level 1 heading (H1)
- `\section` creates a H2
- `\subsection` creates a H3
- `\subsubsection` creates a H4
- `\paragraph` creates a H5
- `\subparagraph` creates a H6

Make sure to use heading levels in order and avoid skipping heading levels.

2.2 Figures

NOTE: Figure captions go below figures and must use the "Caption" style in order to auto-populate a List of Figures.

NOTE: All images must include alt-text.

TEX Live 2025 or newer versions have auto tagging for figures. However, alt text still needs to be added manually in the LATEX source; it is not automatically generated when a figure is created.

To insert alt text, add the "`alt`" key inside the `\includegraphics` command, as in `alt={a green frog is lying in a pond}`. See the LATEX code example in Figure 2.1. This alt text will then be automatically included in the PDF tags.



Figure 2.1: A frog on a log

In general, useful alt text should begin with a high-level summary of the figure, followed by as much relevant detail as possible to help readers understand the figure's meaning or purpose. For more detailed guidance, see SIGACCESS's guide [4] on describing figures.

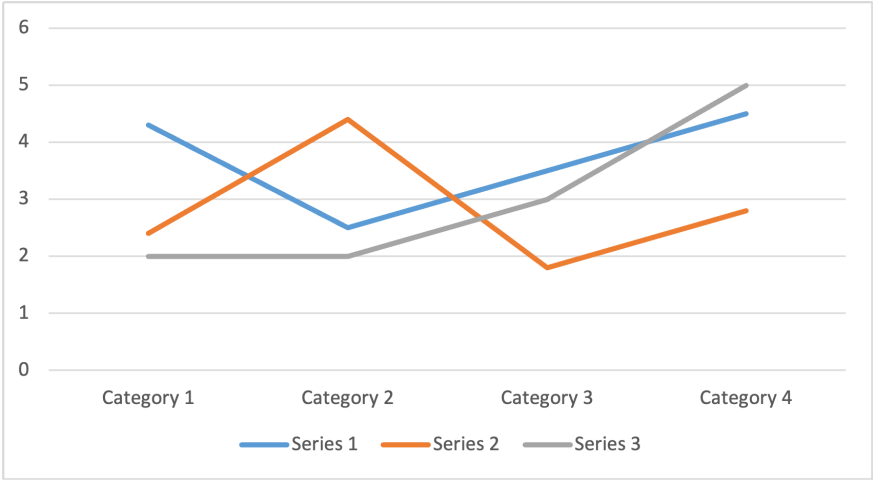


Figure 2.2: Example chart

Figure 2.3 is just for illustration purposes, as is Table 2.1. Note that these figures and tables are made of text and are highlightable. No images of text.

```
#include <iostream>
int main(int argc, char** argv) {
  std::cout << "Hello World." << std::endl;
  return 0;
}
```

Figure 2.3: Example source code.

2.3 Tables

NOTE: Table captions go above tables and auto-populate a List of Tables. If any caption is more than four lines, all captions must be single spaced. In general, we recommend single spacing captions.

Tables should be created as real LaTeX tables using the `tabular`, `tabularx`, or similar table environments, rather than inserted as images of tables.

Each table should have its header row defined. Typically, the header is the first row. To mark the first row as the header row, add `\tagpdfsetup{table/header-rows={1}}` above the table environment (before `\begin{table}`). See the LaTeX code example in Table 2.1. If the table has multiple header rows, list all header row numbers. For example, if rows 1 and 2 are both header rows, use `\tagpdfsetup{table/header-rows={1,2}}`.

Table 2.1: Example coordinates.

x	y	z
14	12	-2
0	33	-25
-3	11	22
4	4	6

If the first column contains row headers, use `\tagpdfsetup{table/header-columns={1}}`. For a table such as a distance matrix that has column headers in the first row and row headers in the first column (e.g., Table 2.2), combine both settings as `\tagpdfsetup{table/header-rows={1},table/header-columns={1}}`. See the LaTeX code example in Table 2.2.

Table 2.2: City or Town Distance Matrix

City or Town	Point A	Point B	Point C	Point D	Point E
Point A	—				
Point B	87	—			
Point C	64	56	—		
Point D	37	32	91	—	
Point E	93	35	54	43	—

2.4 Math Equations

TEX Live 2025 with the LuaLaTeX compiler auto tags math equations as "Formula" and attaches the corresponding MathML to the PDF. Compatible PDF viewers, such as Adobe Acrobat, can use this MathML to make equations available to assistive technologies such as screen readers. Associated MathML files can appear in Acrobat's Attachments panel.

$$\int_1^{12} \frac{x^2}{5-\sqrt{5}}\,dx$$

Equations can also be numbered with a label.

$$E = mc^2 \tag{2.1}$$

Then we can refer to Equation 2.1.

Bibliography

[1] LaTeX Tagging Project. Tagging Status of LaTeX Packages and Classes. https://latex3.github.io/tagging-project/tagging-status/, 2026.

[2] LaTeX Tagging Project. Using LaTeX to produce accessible PDF. https://latex3.github.io/tagging-project/documentation/usage-instructions, 2026.

[3] U. Libraries. Thesis / Dissertation Formatting Manual (2026). https://guides.lib.uci.edu/gradmanual/home, 2026.

[4] S. Trewin. Describing Figures | SIGACCESS. https://www.sigaccess.org/welcome-to-sigaccess/resources/describing-figures/, 2019.

Appendix A

Appendix Title

Supplementary material goes here.

A.1 Example Section

A.1.1 Example Sub Section