

DISSERTATION AND THESIS EXAMPLE FILE

By

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A DISSERTATION PRESENTED TO THE GRADUATE SCHOOL
OF THE UNIVERSITY OF FLORIDA IN PARTIAL FULFILLMENT
OF THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY

UNIVERSITY OF FLORIDA

2025

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ACKNOWLEDGMENTS

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Acknowledgments must be written in complete sentences and should not use direct address. For example, write “I thank my parents” rather than “Thanks, Mom and Dad!”

This template was developed with contributions from many $\text{\LaTeX}$ specialists. I thank Ron Smith, James Booth, Jason Nowell, December Slater, and Meg Renard for their contributions to and maintenance of this document.

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LIST OF ABBREVIATIONS

fractal	A geometric pattern that is repeated at ever smaller scales to produce irregular shapes and surfaces that cannot be represented by classical geometry. Fractals are used especially in computer modeling of irregular patterns and structures in nature.
intersection	The symbol $\cap$, denoting the intersection of sets.
polynomial	In one variable, an expression consisting of the sum of two or more terms, each of which is the product of a constant and a variable raised to an integral power; for example, $ax^2 + bx + c$.
summation	The symbol $\sum$, denoting the summation of a series of terms.

Abstract of Dissertation Presented to the Graduate School
of the University of Florida in Partial Fulfillment of the
Requirements for the Degree of Doctor of Philosophy

DISSERTATION AND THESIS EXAMPLE FILE

By

Martha Gator

May 2025

Chair: Claude Rains
Cochair: Jack Griffin
Major: Mathematics

This is the abstract tex file, which should have been set in the main file using the command
`\setAbstractFile{Drive:/file/location/abstractFile}`.

This is what will appear in the place of an abstract, no formatting or other content is
needed, just fill this file with your actual abstract, eg; In this paper we give examples of the
various files and configurations used in the graduate school $\text{\LaTeX}$ template for dissertations and
thesis papers. It should be 350 words or less.

CHAPTER 1 INTRODUCTION AND OPENING REMARKS

We automatically capitalize all chapters, but if you need to suppress this you can use the class option “`overrideTitles`” and/or “`overrideChapters`” to allow you to use non-capitalized letters in the title and/or chapter names respectively. For more detailed information on the template’s features and options, see the included file “`ufdissertation-Doc-and-Troubleshooting`”.

The class file contains the template’s UF formatting rules. Students generally should not edit `ufdissertation.cls`; use the documented commands and environments provided by the template instead.¹

1.1 First-Level Heading or Section Heading

This is a first-level or Section heading. They should always be in Title-Case. Title case is where all principal words are capitalized except prepositions, articles, and conjunctions. All non-chapter headers must be capitalized manually.

1.1.1 Second-Level or Subsection Heading

This is a second-level or subsection heading. They will always be in title-case but are left-aligned.

1.1.1.1 Third-level or subsubsections

The third level subheadings are left-aligned but in Sentence case. Only the first letter and any proper nouns are capitalized.

1.1.1.2 If you divide a section, you must divide it into two, or more, parts

What this means is that if you are going to break down text via subheading, you will want to make sure it is paired with at least one other subheading of the same “level.”

An un-numbered footnote - this is how you tell the readers that this chapter was previously published and then cite the Journal where it was published. It is typically formatted like “Reprinted with permission from [citation]”

¹Ordinary footnotes use Arabic numerals and automatically restart at 1 in each chapter.

Paragraph headings. There is no official fourth level heading. Do not use the Paragraph heading feature in LaTeX, simply apply the bold characteristic to the first few words of a paragraph followed by a colon or period.

1.1.2 Subsection

Ω Aliquam mi nisi, tristique at rhoncus quis, consectetur non mi. Phasellus blandit quam ligula, a viverra lacus commodo at. In iaculis nisl vel pretium sollicitudin. In efficitur massa vel elit sollicitudin, vel auctor sapien cursus. Proin feugiat sapien a mi tempus;

$$X - X' = D + D' \quad (1-1)$$

Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis. Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis.

This is an example of a block quote. A quotation longer than approximately three lines (about 40 words) should be single-spaced and indented one-half inch from both the left and right margins. Quotation marks are not needed around the block quotation itself.

Use a non-indented paragraph after a block quote or list when continuing the same train of thought. Start a normally indented paragraph when beginning a new idea.

Short and long lists. Use `UFSHORTBULLETS` or `UFSHORTNUMBERS` when every item

remains on one line. Use `UFLongBullets` or `UFLongNumbers` when any item wraps. Short lists are single-spaced with no extra space between items; long lists are single-spaced within each item with a blank line between items.

Transcribed dialogue. Use `UFDialogue` with `\UFDialogueLine` when quoting participants or presenting interview dialogue.

Name1: Dialog test presented in the transcript.

Name2: Response to the first speaker. A second speaker is not required when only one participant is being quoted.

Continue with a non-indented paragraph after the dialogue when remaining in the same train of thought; use a normally indented paragraph when beginning a new idea.

1.1.3 Subsection

Aliquam mi nisi, tristique at rhoncus quis, consectetur non mi. Phasellus blandit quam ligula, a viverra lacus commodo at. In iaculis nisl vel pretium sollicitudin. In efficitur massa vel elit sollicitudin, vel auctor sapien cursus. Proin feugiat sapien a mi tempus;

$$X - X' = D + D' \quad (1-2)$$

in consequat augue cursus. Nulla sed sagittis purus. Nunc eu consequat orci, eu laoreet enim. Ut euismod tincidunt sem, eget lacinia dui luctus eu. Aliquam mi augue, faucibus id semper vitae, porta ac ligula. Morbi sed ultrices odio. Mauris id luctus ex. Nulla ac libero dictum, interdum turpis lacinia, scelerisque leo. Praesent varius orci ac eros varius pharetra.

1.1.4 Subsection

Donec convallis scelerisque ante, in sollicitudin orci laoreet eu. Nam arcu magna, semper vel lorem eu, venenatis ultrices est. Nam aliquet ut erat ac scelerisque. Maecenas ut molestie mi. Phasellus ipsum magna, sollicitudin eu ipsum quis, imperdiet cursus turpis. Etiam pretium enim a fermentum accumsan. Morbi vel vehicula enim.

1.2 Objects

UF Objects are supplemental files such as audio, video, or large data files that you want to make available to the reader. Objects are numbered by chapter in the same manner as tables and

figures. The Object caption should identify the file (including useful information such as its type or size) and act as the hyperlink to the supplemental file. Zenodo is the recommended repository for ETD supplemental content; see <https://guides.uflib.ufl.edu/etds/supplemental>.

The template command is:

```
\addObject{https://example.org/my-file}
```

```
{Supplemental data file, CSV, 2.4 MB}
```

Object 1-1. [Example supplemental data file, CSV, 2.4 MB](#)

If your thesis or dissertation has no Objects, you may omit the List of Objects.

CHAPTER 2 EXAMPLE TABLE FORMATTING

2.1 Table Examples

UF tables use chapter- or appendix-based numbering and a single-spaced title above the table data. The table number should hang outside the caption text. Tables should use no vertical rules and only the minimum horizontal rules needed for clarity. Place notes below the table rather than inside it; lowercase superscript letters may be used as note keys. Numerical columns should be aligned by digit or decimal point rather than centered when appropriate. Most tables work best at the full text width, but tables may be positioned within the text width as appropriate; keep table placement and formatting consistent throughout the document.

For accessibility, identify data-table header rows so assistive technology can distinguish headings from data cells. This template provides `\UFTableHeaderRows{...}`; for the common single-header-row table, place `\UFTableHeaderRows{1}` immediately before `tabular` or `tabularx`. Table 2-1 demonstrates `tabularx`, while Tables 2-2 and 2-3 demonstrate `tabular`.

It is generally best to place tables and figures at the end of the chapter to avoid unnecessary white space. If they are placed within the chapter, keep the surrounding text flowing naturally before and after them rather than leaving large blank areas.

Table 2-1. A sample table using `tabularx`. This example spans the available text width.

First	Second	Third
12	45	26
17	32	93
text	51	can be there too.

Praesent fermentum felis nec massa interdum, vel dapibus mi luctus. Cras id fringilla mauris. Ut molestie eros mi, ut hendrerit nulla tempor et. Pellentesque tortor quam, mattis a scelerisque nec, euismod et odio. Mauris rhoncus metus sit amet risus mattis, eu mattis sem interdum.

- First item.
- Second item.

- Third item. This intentionally long item wraps onto multiple lines to demonstrate the spacing used by the UFLongBullets environment.

2.2 Additional Table Examples

Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis.

Ordinary table environments are floats, so $\text{\LaTeX}$ may move them to improve page layout while preserving the order of ordinary table floats. Placement specifiers such as h, t, and b permit particular locations. Use H only when a table truly must remain exactly where it occurs in the source; because H suppresses normal floating, mixing it with earlier pending table floats can make a later table appear before them.

2.3 Very Long Tables

Tables may continue onto following pages. On each continuation page use “Table X-X. Continued” rather than repeating the full title, and repeat the column and row headings. Table text may be reduced from 12 pt to 10 pt when needed to fit a large table; do not reduce it further. Table 2-6 shows a manual continuation; Table 2-7 uses longtable for automatic page breaking.

Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis. Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend

Table 2-2. A sample table using standard tabular

First	Second	Third
12	45	26
17	32	93
text	51	can be there too.

Table 2-3. Another sample table using standard tabular

First	Second	Third
12	45	26
17	32	93
text	51	can be there too.

elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis.

Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis. Augue sapien mattis leo, nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus.

Table 2-4. Caption location. Table titles belong above the table data, so place the \caption command before the tabular content.

First	Second	Third	Fourth
Some	Data	Goes	Here
Some	Data	Goes	Here
Some	Data	Goes	Here

Table 2-5. A proper table title location. This example also demonstrates the optional short title used for the List of Tables. The short title appears in square brackets and the complete title appears in braces.

First	Second	Third	Fourth
Some	Data	Goes	Here
Some	Data	Goes	Here
Some	Data	Goes	Here

Table 2-6. Feasible triples for highly variable Grid, MLMMH.

Time (s)	Triple chosen	Other feasible triples
0	(1, 11, 13725)	(1, 12, 10980), (1, 13, 8235), (2, 2, 0), (3, 1, 0)
2745	(1, 12, 10980)	(1, 13, 8235), (2, 2, 0), (2, 3, 0), (3, 1, 0)
5490	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
8235	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
10980	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
13725	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
16470	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
19215	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
21960	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
24705	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
27450	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
30195	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
32940	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
35685	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
38430	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
41175	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
43920	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
46665	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
49410	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
52155	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)

Table 2-6. Continued

Time (s)	Triple chosen	Other feasible triples
104310	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
107055	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
109800	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
112545	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
115290	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
118035	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
120780	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
123525	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
126270	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
129015	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
131760	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
134505	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
137250	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
139995	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
142740	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
145485	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
148230	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
150975	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
153720	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
156465	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
159210	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
161955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
164700	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
169210	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
171955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
184700	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
253720	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
256465	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
259210	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
261955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
262955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
263555	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
271955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)

longtable can manage page breaks and repeated headings automatically. Do not place it inside a table float, which would prevent it from breaking across pages.

Table 2-7. Duplicate of Previous table, using longtables environment.

Time (s)	Triple chosen	Other feasible triples
0	(1, 11, 13725)	(1, 12, 10980), (1, 13, 8235), (2, 2, 0), (3, 1, 0)
2745	(1, 12, 10980)	(1, 13, 8235), (2, 2, 0), (2, 3, 0), (3, 1, 0)
5490	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
8235	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
10980	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
13725	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
16470	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
19215	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
21960	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
24705	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
27450	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
30195	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
32940	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
35685	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
38430	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
41175	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
43920	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
46665	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
49410	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
52155	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
54900	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
57645	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
60390	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
63135	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
65880	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
68625	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
71370	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
74115	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
76860	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
79605	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
82350	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
85095	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
87840	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
90585	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
93330	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
96075	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
98820	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
101565	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
104310	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
107055	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
109800	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
112545	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)

Table 2-7. Continued

Time (s)	Triple chosen	Other feasible triples
115290	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
118035	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
120780	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
123525	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
126270	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
129015	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
131760	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
134505	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
137250	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
139995	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
142740	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
145485	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
148230	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
150975	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
153720	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
156465	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
159210	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
161955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
164700	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)

2.4 Tables with Notes

Table notes and source information belong directly below the table. Notes are commonly set in 10 pt type. When a note is keyed to a particular heading or data entry, use a superscript lowercase letter rather than a numeral. The example below demonstrates a lowercase table-note key.

Table 2-8. Here is my table that needs notes for further content information.

First	Second	Third	Fourth ^a
Some	Data	Goes	Here
Some	Data	Goes	Here
Some	Data	Goes	Here

^a Here is my table note.

CHAPTER 3 EXAMPLE FIGURE FORMATTING

3.1 Section Heading

Fusce eget tempus lectus, non porttitor tellus. Aliquam molestie sed urna quis convallis. Aenean nibh eros, aliquam non eros in, tempus lacinia justo. [1] In magna sapien, blandit a faucibus ac, scelerisque nec purus. Praesent fermentum felis nec massa interdum, vel dapibus mi luctus. Cras id fringilla mauris. Ut molestie eros mi, ut hendrerit nulla tempor et. Pellentesque tortor quam, mattis a scelerisque nec, euismod et odio. Mauris rhoncus metus sit amet risus mattis, eu mattis sem interdum.

3.1.1 Subsection Heading

Fusce eget tempus lectus, non porttitor tellus. Aliquam molestie sed urna quis convallis. Aenean nibh eros, aliquam non eros in, tempus lacinia justo. In magna sapien, blandit a faucibus ac, scelerisque nec purus. Praesent fermentum felis nec massa interdum, vel dapibus mi luctus. Cras id fringilla mauris. Ut molestie eros mi, ut hendrerit nulla tempor et. [3]

3.1.2 Subsection Heading

Fusce eget tempus lectus, non porttitor tellus. Aliquam molestie sed urna quis convallis. Aenean nibh eros, aliquam non eros in, tempus lacinia justo. In magna sapien, blandit a faucibus ac, scelerisque nec purus. Praesent fermentum felis nec massa interdum, vel dapibus mi luctus. Cras id fringilla mauris. Ut molestie eros mi, ut hendrerit nulla tempor et. [3]

3.2 Section Heading

Nec accumsan turpis quam at neque. Ut pellentesque velit sed placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis. A random citation to demonstrate the bibliography; [2].

3.3 Algorithm Example

Below is an example of an algorithm using algpseudocode. Algorithms are ordinary manuscript content; they are not UF Objects unless the algorithm is supplied as a separate external file.

Require: $n \geq 0$

Ensure: $y = x^n$

$y \leftarrow 1$

$X \leftarrow x$

$N \leftarrow n$

while $N \neq 0$ **do**

if N is even **then**

$X \leftarrow X \times X$

$N \leftarrow \frac{N}{2}$

else if N is odd **then**

$y \leftarrow y \times X$

$N \leftarrow N - 1$

end if

end while

3.4 Examples of Adding Graphics

The example below shows the recommended pattern for placing several related graphics in one figure. Each meaningful image is added with `\addFigureAlt` so that the fourth argument supplies alternative text for the tagged PDF. The optional first argument can be used to override the automatically generated A, B, C, ... label.

```
\begin{multiFigure}
```

```
\begin{center}
```

```
\addFigureAlt{0.3}{Images/theworld.png}
```

```
{World map labeled A.}
```

```
\addFigureAlt{0.2}{Images/theworld.png}
```

```
{Smaller world map labeled B.}
```

```
\addFigureAlt{0.4}{Images/theworld.png}
```

```
{Larger world map labeled C.}
```

```

\addFigureAlt[Z]{0.5}{Images/theworld.png}
    {World map labeled Z.}
\end{center}

\caption[This is a test caption.]{This is a test caption.
This text has the bit for the whole figure.
Meanwhile, subfigure A is weird looking map.
Subfigure B is a smaller map.
And Subfigure C is a bigger but still weird looking map.
Moreover, I can override the map, which is why Z is
another weird map that came after map C.}
\label{fig:multi-example}
\end{multiFigure}

```

The `multiFigure` environment is provided by this template for a figure that should remain at the point where it is entered in the source. Use the ordinary `\caption[<LIST-ENTRY>]{<CAPTION>}` command inside it. Figure captions are placed below the figure, left-aligned with a hanging figure number and one line of space above the caption. `LIST-ENTRY` is the shorter text that appears in the List of Figures, while `CAPTION` is the complete caption printed with the figure. Multi-part figures should use clear letter labels without punctuation, and the caption should describe the figure as a whole before describing individual parts.

As with tables, placing figures at the end of a chapter is generally the easiest way to avoid unwanted white space. If a figure appears within the body text, keep text flowing before and after it without creating a large blank area.

If a figure continues to another page, put the complete caption on the first page and use `\UFFigureContinued{<label>}` on each later page. The continuation notation does not create another List of Figures entry.

For accessibility, provide useful alternative text for every meaningful graphic. Alternative

text should communicate the information or purpose of the image rather than merely repeat the caption.

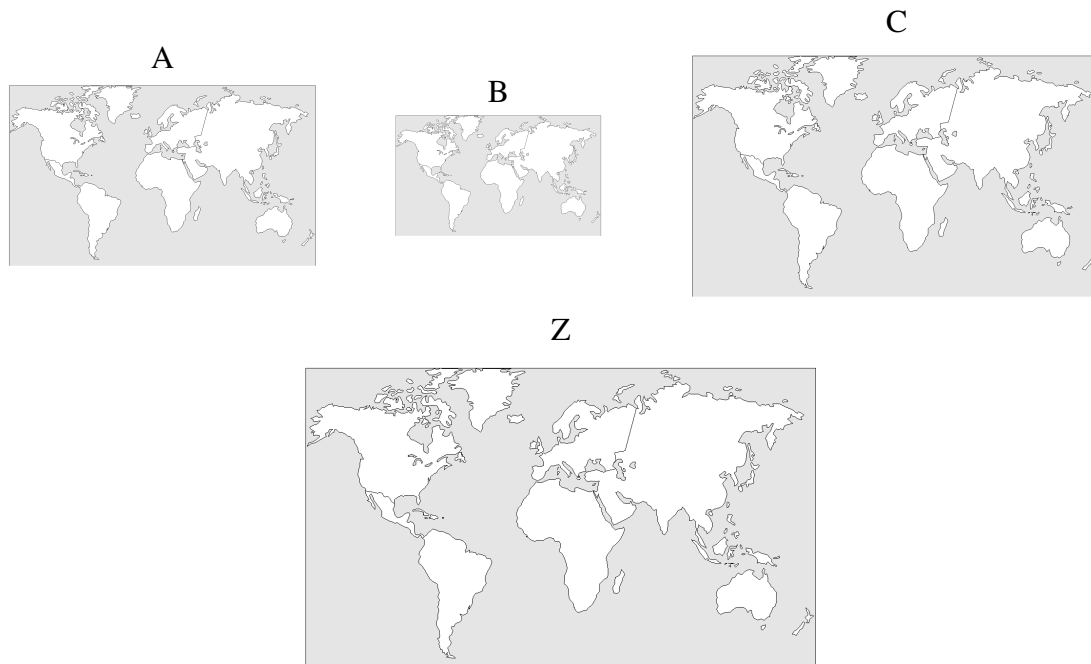


Figure 3-1. This is a test caption. This text has the bit for the whole figure. Meanwhile, A) is weird looking map. B) is a smaller map. And C) is a bigger but still weird looking map. Moreover, I can override the map, which is why Z is another weird map that came after map C.

3.5 A Note on Graphics

For figures created with `multiFigure`, use `\addFigureAlt` rather than `\addFigure` when the image conveys information. Its arguments are the displayed width, image file, and alternative text, with an optional first argument for the subfigure label. For an ordinary figure environment, use `\includegraphics` with its `alt={...}` option, as shown in the shark example below.

Graphic filenames and paths must match the files in the project. Including the file extension is recommended. For example, `Images/theworld.png` refers to the PNG file stored in the project's Images folder. Keep the filename capitalization consistent with the uploaded file because project file systems can be case-sensitive.

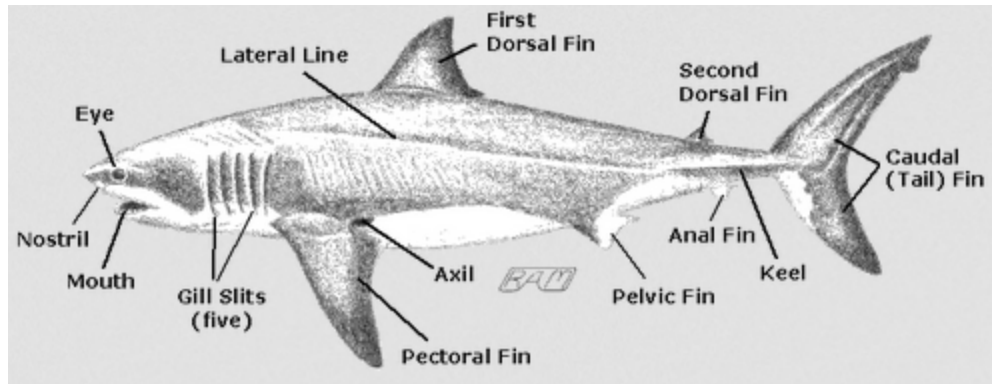


Figure 3-2. This is another figure as an example. Used with permission from Martin, R. Aidan. 2003.

3.6 Placement Specifiers

Floats allow $\text{\LaTeX}$ to place figures and tables while maintaining a readable page layout. Placement specifiers give the author some control over the locations that $\text{\LaTeX}$ may use. The shark in Figure 3-2 is an example of a normal figure float. Table 3-1 summarizes the available placement specifiers and their meanings. In general, allow $\text{\LaTeX}$ some placement flexibility; use capital H only when the figure or table must remain at the exact point where it occurs in the source.

Table 3-1. Specifier Table

Specifier	Permission
h	Place the float here, i.e., approximately at the same point it occurs in the source text (however, not exactly at the spot)
t	Position at the top of the page.
b	Position at the bottom of the page.
p	Put on a special page for floats only.
!	Override internal parameters LaTeX uses for determining "good" float positions.
H	Places the float at precisely the location in the LaTeX code.

CHAPTER 4 EXAMPLES OF EDITOR/AUTHOR TOOLS

If you don't see any blue or red type under this line, then you almost certainly need to include the optional “editMode” to the document class. Thus your document class (first line) should read `\documentclass[editMode]{ufdissertation}`

Test! This is a remark written by the author, to themselves, for review purposes. It will be suppressed unless editMode is used in the class options.

This is an editor's remark, written by an editor in-line so that they can write into the content itself with something easy to see. But the remark will be suppressed unless editMode is used in the class options.

To get this remark to go away, simply remove “editMode” from the documentclass options at the top of the user's tex-file. This also removes the blue Author Remarks.

CHAPTER 5 SUMMARY AND CONCLUSIONS

5.1 Section Heading

Aliquam molestie sed urna quis convallis. Aenean nibh eros, aliquam non eros in, tempus lacinia justo. In magna sapien, blandit a faucibus ac, scelerisque nec purus. Praesent fermentum felis nec massa interdum, vel dapibus mi luctus. Cras id fringilla mauris. Ut molestie eros mi, ut hendrerit nulla tempor et. Pellentesque tortor quam, mattis a scelerisque nec, euismod et odio. Mauris rhoncus metus sit amet risus mattis, eu mattis sem interdum.

5.1.1 Subsection Heading

Semper vel lorem eu, venenatis ultrices est. Nam aliquet ut erat ac scelerisque. Maecenas ut molestie mi. Phasellus ipsum magna, sollicitudin eu ipsum quis, imperdiet cursus turpis. Etiam pretium enim a fermentum accumsan. Morbi vel vehicula enim.

5.1.2 Subsection Heading

Semper vel lorem eu, venenatis ultrices est. Nam aliquet ut erat ac scelerisque. Maecenas ut molestie mi. Phasellus ipsum magna, sollicitudin eu ipsum quis, imperdiet cursus turpis. Etiam pretium enim a fermentum accumsan. Morbi vel vehicula enim.

5.1.2.1 Subsubsection heading

Placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis.[4]

5.1.2.2 Subsubsection heading

Placerat cursus. Integer congue urna non massa dictum, a pellentesque arcu accumsan. Nulla posuere, elit accumsan eleifend elementum, ipsum massa tristique metus, in ornare neque nisl sed odio. Nullam eget elementum nisi. Duis a consectetur erat, sit amet malesuada sapien. Aliquam nec sapien et leo sagittis porttitor at ut lacus. Vivamus vulputate elit vitae libero condimentum dictum. Nulla facilisi. Quisque non nibh et massa ullamcorper iaculis.[4]

5.2 Section Heading

Aliquam molestie sed urna quis convallis. Aenean nibh eros, aliquam non eros in, tempus lacinia justo. In magna sapien, blandit a faucibus ac, scelerisque nec purus. Praesent fermentum felis nec massa interdum, vel dapibus mi luctus. Cras id fringilla mauris. Ut molestie eros mi, ut hendrerit nulla tempor et. Pellentesque tortor quam, mattis a scelerisque nec, euismod et odio. Mauris rhoncus metus sit amet risus mattis, eu mattis sem interdum.

APPENDIX A SOME ADDITIONAL MATERIAL

Appendices may contain supplementary material with little additional formatting required.

Tables and figures in an appendix use the appendix letter in place of the chapter number; for example, the first table in Appendix A is Table A-1.

Table A-1. Aliquam mi nisi, tristique at rhoncus quis, consectetur non mi. Phasellus blandit quam ligula, a viverra lacus commodo at.

Some	Data	Goes	Here
Some	Data	Goes	Here
Some	Data	Goes	Here
Some	Data	Goes	Here

APPENDIX B SECONDARY APPENDIX CONTENT

Paragraph headings. There is no official fourth level heading. Do not use the Paragraph heading feature in LaTeX, simply apply the bold characteristic to the first few words of a paragraph followed by a colon or period.

Interview questions, surveys, and similar supplementary material may generally be reproduced in the appendix as they appear in the source, provided the material stays within the document margins.

APPENDIX C EXPERT OPINIONS

Test for third appendix file.

LIST OF REFERENCES

- [1] Bracci, F., Contreras, M. D. and Diaz-Madrigal, S. [2008], ‘Evolution Families and the Loewner Equation II: complex hyperbolic manifolds’, *arXiv e-prints* p. arXiv:0807.1715.
- [2] Conway, J. [1978], *Functions of One Complex Variable I*, Functions of one complex variable / John B. Conway, Springer.
URL: <https://books.google.com/books?id=9LtfZr1snG0C>
- [3] Rudin, W. [1980], *Function theory in the unit ball of $\mathbb{C}^n$* , Springer-Verlag New York.
- [4] Rudin, W. [1987], *Real and Complex Analysis, 3rd Ed.*, McGraw-Hill, Inc., New York, NY, USA.

BIOGRAPHICAL SKETCH

This is the “biographical sketch” tex file, which should have been set in the main file using the command `\setBiographicalFile{Drive:/file/location/biographyFile}`.

The biographical sketch is written in narrative form, in the third person and past tense, and typically includes the candidate’s educational background. Write it as though the degree associated with this thesis or dissertation has already been completed.