

Working Title

Thesis of 60 ECTS credits submitted to the School of Science and Engineering at Reykjavík University in partial fulfillment of

the requirements for the degree of

**Master of Science (M.Sc.) in Sustainable Energy Engineering**

June 2017

Supervisors:

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Professor, Reykjavík University, Iceland

Examiner:

Tough E. Questions, Examiner

Associate Professor, Massachusetts Institute of Technology, USA

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June 2017

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June 2017

**Abstract**

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Titll verkefnis

Firstname Lastname

júní 2017

**Útdráttur**

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date

Firstname Lastname

Master of Science

*I dedicate this to my spouse/child/pet/power animal.*

Acknowledgements

So long and thanks for all the fish.

Douglas Adams

This work was funded by 2015 RANNIS grant “Survey of man-eating Minke whales” 1415550. Additional equipment was generously donated by the Icelandic Tourism Board.

Preface

This dissertation is original work by the author, D Keith Smithson. Portions of the intro- ductory text are used with permission from Student et al (2017) of which I am an author.

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List of Abbreviations

MSc Masters of Science

PhD Doctor of Philosophy

VOI Value of Information

LCOE Levelized Cost of Electricity

MT Magnetotelluric

MS Microsoft

List of Symbols

|  |  |  |
| --- | --- | --- |
| Symbol | Description | Value/Units |
| *E* | Energy | J |
| *m*  *c* | Mass  Speed of Light | Gram  2*.*99 *×* 108 m s*−*1 |
| *Right-click* | Insert row | Add info |
| *Alternately:* | Hover over area left of row | Press “+” symbol |
| *Adjust the width* | At the top of the page if you require a super-long description | …or you can drag the size of the table. |

Chapter 1

# Introduction

State the objectives of the exercise. Ask yourself: Why did I design/create the item? What did I aim to achieve? What is the problem I am trying to solve? How is my solution interesting or novel?

## How to use the template

Before you begin adding your own text, go ahead and “Save As” a different file. You will likely want to keep this file as-is to reference later.

Originally, this template was developed for use with Latex. If you are reading this, it is likely you are trying to weigh your options with respect to whether to attempt to learn to use Latex or try to wrestle with MS Word. While Latex has many benefits, it has been the author’s experience that Word is misused much of the time, resulting in the formatting hassles that plague Word users. It is true that Latex offers more complete control of formatting and page layout. While such strict control can look nicer, the learning curve associated with it is steep and there is a relatively low likelihood that others, outside of academia will be comfortable using it. The author, therefore, wants to offer a more user-friendly experience with Word as the author’s experience (as of 2017) is that Latex is far less prominent outside of academia.

The original text in this template is being re-written, so it is possible that some sections that are relavent to Latex only remain. Please don’t be confused by this.

While the Latex version requested double-spacing of the text in draft mode to facilitate notes from reviewers, this formatting is less important in Word (provided the reviewers use Word to review any drafts). It was noted that Latex would remove any pages that remained blank. Within the template, blank pages were left to be consistent with the original template. When completing the thesis, any blank pages should be removed.

**WARNING:** The original message here warned against printing the final PDF as a “fit-to-page” as it would mess with the page layout. The author believes this would be of less concern within Word given the way this template is formatted and the method described. The author has not, however, tested this out in practice – so beware.

### Document structure

The default document structure is the style called IMRAD: Introduction, Methods, Research, And, Discussion. This is also known as the American Psychological Association (APA) format and is commonly used in the [sciences (Google search for more information).](#_bookmark39) The template’s current editor believes that this format is a good starting point, but may not be appropriate for some engineering works. In those cases, following a more technical report style may be easier: Introduction, Background, Design, Implementation, Analysis, Conclusion. For some works, this is still too confining. In those cases, the editor recommends the Introduction, Body, Conclusion (IBC) format where the body is a series of IMRAD or other structures. Each section of the body should ask a question and answer it relating to the topic. If you are writing a thesis that is primarily a collection of papers, then the body section would consist of these papers.



Figure 1.1 - The Reykjavik University Logo. It is likely that your description of the figure will be long enough and/or that your figure will be large enough that it won’t look awkward with a short description.

### Word Document Structure

To begin with, it is imperative to the use of Word to turn on the “Style” toolbar. In the “Home” tab on the ribbon above, click the “expand” error in the “Styles” section. This will open a toolbar that can be moved to a comfortable, easy-to-access, but out-of-the way area of your screen.

The preferred configuration is to click “Options” at the bottom of the toolbar, and for the “Select Styles to Show” select “In Use”. This will show the styles that are already in use. It is unlikely that you will need to create any more. For more information about Styles, Google will be your friend.

Word will recognize the structure of the paper and automatically format the paper so long as you tell it each section’s identity. This is the primary confusion with Word – because it can be a hassle to instruct Word correctly regarding each section. This is actually quite simple.

To add a section, go ahead and type the title of the new section on a new line. Highlight the text, and click on the appropriate style. The rule for this template is the count of identifiers is the number of the heading (i.e. “1.1.2” has 3 identifiers and should be “Heading 3”). Addtionally, the title of the chapter is Heading 1, Section titles are Heading 2, Subsections are heading 3, etc.

When typing a paragraph, the format when typing a new section may not match the other sections. If this is the case, the body of the text can be highlighted and then the “Body Text” style can be added.

By following these instructions, the table of contents (TOC) will automatically update to reflect the paper. You may need to go to the TOC and tell it to “Update Table” to make sure it is completely up to date.

### Indexes, glossaries, and abbreviations

The Latex version of the template shows examples of how to add index, glossary, and abbreviation sections easily in Latex. The author is not wholly familiar with Latex and is not familiar with this feature and its ease/difficulty. The author takes these as to be relatively trivial sections.

While the glossary and abbreviations will be largely manual, the Index section is automated in Word. Important words to be added to the index can be highlighted, then in the “References” ribbon tab, “Mark Entry” can be pressed. Within the options, only the immediate option can be referenced in the Index, or you can choose to “Mark All.”

### Citing properly

Any content from external sources must be properly cited. If any part of this document is plagiarized (from another group, the internet, or anywhere else) or your references are not properly cited, you will be in a lot of trouble.

This is in compliance with Reykjavík University’s Code of Ethics [[1]](#footnote-1) [[2]](#footnote-2) [[3]](#footnote-3). For your refer- ence, here is a link to guidelines defining plagiarism and discussing how to avoid it (from the University of Oxford):

<http://www.ox.ac.uk/students/academic/goodpractice/about/>

### Examples

Below are some examples of specific features that may be used – and how to get them to cooperate.

#### Equations

As an example of an equation, in Equation [1.1](#_bookmark20) shows a description of Bayes’ Theorem, well know within the statistical world:

(1.1)

where *θ*\* is the property that exists and x\* is the indirect physical response of *θ\**. The equation editor within Word has improved significantly as of Word 2010 or so, but the ease of formatting the equation is not so good. To insert an equation, begin a new line, go to the “Insert” tab in the ribbon and a text box within the document. Right click and adjust the outline to “No Outline.” Within the text box, go to “Insert” and click “Equation” on the far-right of the ribbon. Type the equation as desired using the equation tools. Right click the text box, and add a caption. Adjust the type to “Equation” and ensure that “Exclude Lable from Caption” is checked. Likewise, make sure within “Numbering” that Chapter Number will be shown, and that it is formatted as Arabic numbers (1, 2, 3…) and with a period separator. Highlight the equation, and click on “Equation” in the Styles menu. Parentheses will need to be added around the numbers. Highlight the caption number, cut, and paste to the right of the equation (just after the text box. Highlight the number, and click “CaptionEq” in the Styles menu. Click on the text box and apply the “Equation” style.. The number should be right-justified. The numbering will include chapter and the consecutive position within the chapter separated by a “.”.

If referencing the equation later in the next, where the Equation Number is to be added, click on the “Insert” tab, and click “Cross-Reference”. In the dialogue box, select “Equation” and be sure that “Only Label and Number” is selected. Press “Okay” and the equation number will be added within the text – and will be updated automatically.

#### Tables and Figures

Tables and figures can be added fairly easily. While there is some flexibility, both figures and tables will be centered on the page with an attached caption. Tables will be numbered and have a caption above; figures will be numbered and have the caption below. Whether the table is formatted as a table within Word or inserted as a picture, the picture can be right-clicked and select “Add Caption”. Be sure the appropriate “Figure” or “Table” is selected with the appropriate placement, and press okay. DO NOT type any other text into the “Add Caption” dialog. Text can be added after the caption is created.

The settings in this template are set to include the chapter number in the caption. This setting may not stay active when used initially on another computer. When inserting the first caption, click the “Numbering” button. Ensure that “1, 2, 3 …” is highlighted, the box next to “Show Chapter Number” is checked, and that the “Separator” is set as a “period.”

The table or figure can be clicked on and have the “Figure” style applied to center it and add appropriate spacing. Likewise, the caption should be highlighted and have the “Caption” style added.

Following these instructions will cause the Index of Figures and Index of Tables to update automatically.

A couple example tables have been included in this template, though the author is still not familiar with any way to populate tables within Word without significant headache. The author’s recommendation is to generate tables within MS Excel, copy the table as a picture, and paste the table into this thesis, formatting the picture as a “Figure,” but adding a “Table” caption.

If referencing a table/figure later in the next, where the Table/Figure Number is to be added, click on the “Insert” tab, and click “Cross-Reference”. In the dialogue box, select “Table” or “Figure” and be sure that “Only Label and Number” is selected. Press “Okay” and the table/figure number will be added within the text – and will be updated automatically.

#### Footnotes

Footnotes should be added, if necessary, using the “References” tab in the ribbon. Place the cursor where the footnote should appear, and press the “Insert Footnote” button. The numbers will be incremented automatically. Type the text as necessary. To remove the footnote, delete the footnote number within the text. The footnote will be automatically deleted.

#### Adding References

Adding references to Word is very simple. In the “References” tab, click on “Manage Sources.” Add your sources and the associated information. When citing the reference within the text, click on “Insert Citation” in the “References Tab” at the appropriate location. When creating the bibliography, the table within the section needs only to be updated by right clicking on the table and selecting “Update Field.”

#### Adding Chapters

The four chapters included here may not fit the format of your thesis completely. Many aspects of this template are automated and require certain steps to maintain consistency. The application of styles is important to that. Adding chapters is not difficult, but it requires a couple less-than-obvious steps.

First off, the text for the chapter should be typed in at the end of the preceding chapter, including the chapter number, title, and section headings, all on separate lines. The chapter number should be given the “ChapterNum” style, the chapter title will be “Heading 1”, and subsequent sections will be given the appropriate “Heading X” and the body should be “body text.” The only peculiar step involves moving the cursor to the end of the preceding chapter. Once positioned, the “Page Layout” tab has a button called “Breaks.” From the drop-down menu, select “Next Page” within the “Section Breaks” heading.

You may notice (if you have done this already) that a heading (ie “breadcrumb”) appears above the chapter. This should not be the case. The way this template is set up, the chapter title must be a single word (ie, no spaces), and included as a bookmark. In order to fix this, highlight the chapter title, go to the “Insert” tab and click “Bookmark” in the “Links” section. In the dialog box that appears, add the chapter title. Click okay. The breadcrumb should not appear on the chapter page any longer.

Done.

A tutorial is layed out and described in section 1.2.1.

It is a best practice to add a Section Break when transitioning from one part of a paper to another (such as going from the text to the Bibliography). Section Breaks can be seen by pressing the “Paragraph Symbol” on the “Home” tab (next to the “Sort” button). Chapters should also always begin on Odd Pages. If you find that a Chapter begins on an even page, after the final paragraph of the previous chapter, add a Page break (not a Section Break) by going to “Page Layout”, “Breaks”, and selecting “Page.” Alternately, a page break can be added by going to the “Insert” tab and selecting “Page Break” in the left side of the Ribbon labeled “Page Break.”

### URLs and paths

URLs are easy to use in both the bibliography and text. Inserting URL or filepath locations should use the “URL” style: [http://www.ru.is](http://www.ru.is/); or: C:\Documents and Settings\. The “URL” style is applied as a “character style” and will only impact the characters highlighted. Most of the other styles are “paragraph styles,” changing the formatting of the entire paragraph/section where it is applied.

### Hints

Always save often; it is handy to “Save As” and use a filename ending with “\*\*\*\_rev01.docx” where the 01 is indexed with each saving. A corrupted file can be rolled back to a not-too-distant version. For those that are more tech savvy, using SVN or git is another more complicated, but automatic, way of maintaining revision control.

If there is any interest in understanding how Word can be used to automate features (and provide a place to look should any bugs become apparent), the feature is referred to as “field codes.” Pressing Alt+F9 will change the automated text to their behind-the-scenes code. Pressing F9 by itself will update all of the fields. These are the same code that power the automatic TOC and Bibliography. If a field code is desired to be added, it must be initiated by pressing CTRL+F9. Two curly braces will appear wherein text can be added that trigger certain automatic functions. Describing these functions is beyond the scope of this template.

If more spacing is desired within a section – or for a certain Style, right click the Style in the side bar (you are using that, correct?), and click “Modify.” Click on “Format” at the lower-left of the box, and select “Paragraph.” Here you can adjust the amount of spacing before and after “paragraphs” of a given style. Note that each figure is its own paragraph.

Word itself may still contain a few bugs. It treats headers and footers slightly different from the rest of the text – so the programming done in the headers may show some weird results (such as repeated headers as has been noted). While this behavior is not intended, saving the document, closing, and reopening does appear to clear the problem.

## Background

Provide background about the subject matter (e.g. How was Morse code developed? How is it used today?). This is a place where there are usually many citations. It is suspicious when there is not. Include the purpose of the different equipment and your design intent. Include references to relevant scientific/technical work and books. What other examples of similar designs exist? How is your approach distinctive?

If you have specifications or related standards, these must be described and cited also. As an example, you might cite the specific RoboSub competition website (and documents) if working on an AUV[[4]](#footnote-4).

### Tutorial description

At the end of Chapter 4, the author has included un-formatted text that is ready to be used to start a new chapter. The text itself serves as a guide to completing the tutorial – and to show how easy it is to reformat any text to conform to this template.

## Section

The test text “Lorem Ipsum” is from an ancient text from 45 B.C.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, plac- erat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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Table 1.1 A simple table

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| Row 2 |  |  |

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### Subsection

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Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.



Figure 1.2 A second figure. Notice how the numbering gives chapter number and the sequence the figure appears in the chapter.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis eges- tas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetuer at, consectetuer sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetuer a, feugiat vitae, porttitor eu, libero. Sus- pendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetuer. Nullam elementum, urna vel im- perdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus.

Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue. Nulla nec lacus.

Suspendisse vitae elit. Aliquam arcu neque, ornare in, ullamcorper quis, commodo eu, libero. Fusce sagittis erat at erat tristique mollis. Maecenas sapien libero, molestie et, lobor- tis in, sodales eget, dui. Morbi ultrices rutrum lorem. Nam elementum ullamcorper leo. Morbi dui. Aliquam sagittis. Nunc placerat. Pellentesque tristique sodales est. Maecenas imperdiet lacinia velit. Cras non urna. Morbi eros pede, suscipit ac, varius vel, egestas non, eros. Praesent malesuada, diam id pretium elementum, eros sem dictum tortor, vel consectetuer odio sem sed wisi.

#### SubSubsection

Sed feugiat. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridicu- lus mus. Ut pellentesque augue sed urna. Vestibulum diam eros, fringilla et, consectetuer eu, nonummy id, sapien. Nullam at lectus. In sagittis ultrices mauris. Curabitur malesuada erat sit amet massa. Fusce blandit. Aliquam erat volutpat. Aliquam euismod. Aenean vel lectus. Nunc imperdiet justo nec dolor.

Etiam euismod. Fusce facilisis lacinia dui. Suspendisse potenti. In mi erat, cursus id, nonummy sed, ullamcorper eget, sapien. Praesent pretium, magna in eleifend egestas, pede pede pretium lorem, quis consectetuer tortor sapien facilisis magna. Mauris quis magna varius nulla scelerisque imperdiet. Aliquam non quam. Aliquam porttitor quam a lacus. Praesent vel arcu ut tortor cursus volutpat. In vitae pede quis diam bibendum placerat. Fusce elementum convallis neque. Sed dolor orci, scelerisque ac, dapibus nec, ultricies ut, mi. Duis nec dui quis leo sagittis commodo.

Table 1.2 Another simple table with caption. The numbering scheme follows here as it did in the previous figure..

|  |  |  |
| --- | --- | --- |
|  | Column 1 | Column 2 |
| Row 1 |  |  |
| Row 2 |  |  |

Aliquam lectus. Vivamus leo. Quisque ornare tellus ullamcorper nulla. Mauris porttitor pharetra tortor. Sed fringilla justo sed mauris. Mauris tellus. Sed non leo. Nullam elemen- tum, magna in cursus sodales, augue est scelerisque sapien, venenatis congue nulla arcu et pede. Ut suscipit enim vel sapien. Donec congue. Maecenas urna mi, suscipit in, placerat ut, vestibulum ut, massa. Fusce ultrices nulla et nisl.

Etiam ac leo a risus tristique nonummy. Donec dignissim tincidunt nulla. Vestibulum rhoncus molestie odio. Sed lobortis, justo et pretium lobortis, mauris turpis condimen- tum augue, nec ultricies nibh arcu pretium enim. Nunc purus neque, placerat id, imperdiet sed, pellentesque nec, nisl. Vestibulum imperdiet neque non sem accumsan laoreet. In hac habitasse platea dictumst. Etiam condimentum facilisis libero. Suspendisse in elit quis nisl aliquam dapibus. Pellentesque auctor sapien. Sed egestas sapien nec lectus. Pellentesque vel dui vel neque bibendum viverra. Aliquam porttitor nisl nec pede. Proin mattis libero vel turpis. Donec rutrum mauris et libero. Proin euismod porta felis. Nam lobortis, metus quis elementum commodo, nunc lectus elementum mauris, eget vulputate ligula tellus eu neque. Vivamus eu dolor.

Chapter 2

# Methods

Etiam ac leo a risus tristique nonummy. Donec dignissim tincidunt nulla. Vestibulum rhon- cus molestie odio. Sed lobortis, justo et pretium lobortis, mauris turpis condimentum augue, nec ultricies nibh arcu pretium enim. Nunc purus neque, placerat id, imperdiet sed, pellen- tesque nec, nisl. Vestibulum imperdiet neque non sem accumsan laoreet. In hac habitasse platea dictumst. Etiam condimentum facilisis libero. Suspendisse in elit quis nisl aliquam dapibus. Pellentesque auctor sapien. Sed egestas sapien nec lectus. Pellentesque vel dui vel neque bibendum viverra. Aliquam porttitor nisl nec pede. Proin mattis libero vel turpis. Donec rutrum mauris et libero. Proin euismod porta felis. Nam lobortis, metus quis ele- mentum commodo, nunc lectus elementum mauris, eget vulputate ligula tellus eu neque. Vivamus eu dolor.

## Section 1 in Chapter 2

Nulla in ipsum. Praesent eros nulla, congue vitae, euismod ut, commodo a, wisi. Pel- lentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aenean nonummy magna non leo. Sed felis erat, ullamcorper in, dictum non, ultricies ut, lectus. Proin vel arcu a odio lobortis euismod. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Proin ut est. Aliquam odio. Pellentesque massa turpis, cursus eu, euismod nec, tempor congue, nulla. Duis viverra gravida mauris. Cras tincidunt. Curabitur eros ligula, varius ut, pulvinar in, cursus faucibus, augue.

Nulla mattis luctus nulla. Duis commodo velit at leo. Aliquam vulputate magna et leo. Nam vestibulum ullamcorper leo. Vestibulum condimentum rutrum mauris. Donec id mauris. Morbi molestie justo et pede. Vivamus eget turpis sed nisl cursus tempor. Curabitur mollis sapien condimentum nunc. In wisi nisl, malesuada at, dignissim sit amet, lobortis in, odio. Aenean consequat arcu a ante. Pellentesque porta elit sit amet orci. Etiam at turpis nec elit ultricies imperdiet. Nulla facilisi. In hac habitasse platea dictumst. Suspendisse viverra aliquam risus. Nullam pede justo, molestie nonummy, scelerisque eu, facilisis vel, arcu.

Table 2.1 A simple table in Chapter 2. The numbering works!

|  |  |  |
| --- | --- | --- |
|  | Column 1 | Column 2 |
| Row 1 |  |  |
| Row 2 |  |  |

Curabitur tellus magna, porttitor a, commodo a, commodo in, tortor. Donec interdum. Praesent scelerisque. Maecenas posuere sodales odio. Vivamus metus lacus, varius quis, imperdiet quis, rhoncus a, turpis. Etiam ligula arcu, elementum a, venenatis quis, sollicitudin sed, metus. Donec nunc pede, tincidunt in, venenatis vitae, faucibus vel, nibh. Pellentesque wisi. Nullam malesuada. Morbi ut tellus ut pede tincidunt porta. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam congue neque id dolor.

Donec et nisl at wisi luctus bibendum. Nam interdum tellus ac libero. Sed sem justo, laoreet vitae, fringilla at, adipiscing ut, nibh. Maecenas non sem quis tortor eleifend fermen- tum. Etiam id tortor ac mauris porta vulputate. Integer porta neque vitae massa. Maecenas tempus libero a libero posuere dictum. Vestibulum ante ipsum primis in faucibus orci luc- tus et ultrices posuere cubilia Curae; Aenean quis mauris sed elit commodo placerat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Vivamus rhoncus tincidunt libero. Etiam elementum pretium justo. Vivamus est. Morbi a tellus eget pede tristique commodo. Nulla nisl. Vestibulum sed nisl eu sapien cursus rutrum.

Nulla non mauris vitae wisi posuere convallis. Sed eu nulla nec eros scelerisque pharetra. Nullam varius. Etiam dignissim elementum metus. Vestibulum faucibus, metus sit amet mattis rhoncus, sapien dui laoreet odio, nec ultricies nibh augue a enim. Fusce in ligula. Quisque at magna et nulla commodo consequat. Proin accumsan imperdiet sem. Nunc porta. Donec feugiat mi at justo. Phasellus facilisis ipsum quis ante. In ac elit eget ipsum pharetra faucibus. Maecenas viverra nulla in massa.

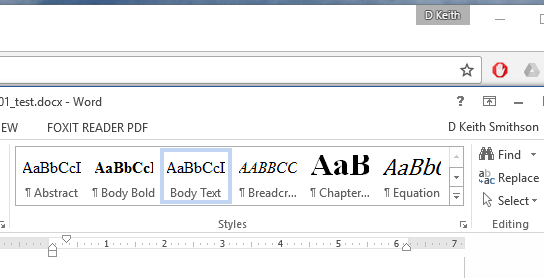


Figure 2.1 Just a random picture that is added. The numbering still works!

Nulla ac nisl. Nullam urna nulla, ullamcorper in, interdum sit amet, gravida ut, risus. Aenean ac enim. In luctus. Phasellus eu quam vitae turpis viverra pellentesque. Duis feugiat felis ut enim. Phasellus pharetra, sem id porttitor sodales, magna nunc aliquet nibh, nec blandit nisl mauris at pede. Suspendisse risus risus, lobortis eget, semper at, imperdiet sit amet, quam. Quisque scelerisque dapibus nibh. Nam enim. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Nunc ut metus. Ut metus justo, auctor at, ultrices eu, sagittis ut, purus. Aliquam aliquam.

Chapter 3

# Results

In this section you discuss any issues that came up while developing the system. If you found something particularly interesting, difficult, or an important learning experience, put it here. This is also a good place to put additional figures and data.

Donec molestie, magna ut luctus ultrices, tellus arcu nonummy velit, sit amet pulvinar elit justo et mauris. In pede. Maecenas euismod elit eu erat. Aliquam augue wisi, facilisis congue, suscipit in, adipiscing et, ante. In justo. Cras lobortis neque ac ipsum. Nunc fermentum massa at ante. Donec orci tortor, egestas sit amet, ultrices eget, venenatis eget, mi. Maecenas vehicula leo semper est. Mauris vel metus. Aliquam erat volutpat. In rhoncus sapien ac tellus. Pellentesque ligula.

## Section 1 in Chapter 3

Cras dapibus, augue quis scelerisque ultricies, felis dolor placerat sem, id porta velit odio eu elit. Aenean interdum nibh sed wisi. Praesent sollicitudin vulputate dui. Praesent iaculis viverra augue. Quisque in libero. Aenean gravida lorem vitae sem ullamcorper cursus. Nunc adipiscing rutrum ante. Nunc ipsum massa, faucibus sit amet, viverra vel, elementum semper, orci. Cras eros sem, vulputate et, tincidunt id, ultrices eget, magna. Nulla varius ornare odio. Donec accumsan mauris sit amet augue. Sed ligula lacus, laoreet non, aliquam sit amet, iaculis tempor, lorem. Suspendisse eros. Nam porta, leo sed congue tempor, felis est ultrices eros, id mattis velit felis non metus. Curabitur vitae elit non mauris varius pretium. Aenean lacus sem, tincidunt ut, consequat quis, porta vitae, turpis. Nullam laoreet fermentum urna. Proin iaculis lectus.

Sed mattis, erat sit amet gravida malesuada, elit augue egestas diam, tempus scelerisque nunc nisl vitae libero. Sed consequat feugiat massa. Nunc porta, eros in eleifend varius, erat leo rutrum dui, non convallis lectus orci ut nibh. Sed lorem massa, nonummy quis, egestas id, condimentum at, nisl. Maecenas at nibh. Aliquam et augue at nunc pellentesque ullamcorper. Duis nisl nibh, laoreet suscipit, convallis ut, rutrum id, enim. Phasellus odio. Nulla nulla elit, molestie non, scelerisque at, vestibulum eu, nulla. Ut odio nisl, facilisis id, mollis et, scelerisque nec, enim. Aenean sem leo, pellentesque sit amet, scelerisque sit amet, vehicula pellentesque, sapien.

Sed consequat tellus et tortor. Ut tempor laoreet quam. Nullam id wisi a libero tristique semper. Nullam nisl massa, rutrum ut, egestas semper, mollis id, leo. Nulla ac massa eu risus blandit mattis. Mauris ut nunc. In hac habitasse platea dictumst. Aliquam eget tortor. Quisque dapibus pede in erat. Nunc enim. In dui nulla, commodo at, consectetuer nec, malesuada nec, elit. Aliquam ornare tellus eu urna. Sed nec metus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

Phasellus id magna. Duis malesuada interdum arcu. Integer metus. Morbi pulvinar pellentesque mi. Suspendisse sed est eu magna molestie egestas. Quisque mi lorem, pulvina eget, egestas quis, luctus at, ante. Proin auctor vehicula purus. Fusce ac nisl aliquam ante hendrerit pellentesque. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Morbi wisi. Etiam arcu mauris, facilisis sed, eleifend non, nonummy ut, pede. Cras ut lacus tempor metus mollis placerat. Vivamus eu tortor vel metus interdum malesuada.

Sed eleifend, eros sit amet faucibus elementum, urna sapien consectetuer mauris, quis egestas leo justo non risus. Morbi non felis ac libero vulputate fringilla. Mauris libero eros, lacinia non, sodales quis, dapibus porttitor, pede. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Morbi dapibus mauris condimentum nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Etiam sit amet erat. Nulla varius. Etiam tincidunt dui vitae turpis. Donec leo. Morbi vulputate convallis est. Integer aliquet. Pellentesque aliquet sodales urna.

Nullam eleifend justo in nisl. In hac habitasse platea dictumst. Morbi nonummy. Ali- quam ut felis. In velit leo, dictum vitae, posuere id, vulputate nec, ante. Maecenas vitae pede nec dui dignissim suscipit. Morbi magna. Vestibulum id purus eget velit laoreet laoreet. Praesent sed leo vel nibh convallis blandit. Ut rutrum. Donec nibh. Donec interdum. Fusce sed pede sit amet elit rhoncus ultrices. Nullam at enim vitae pede vehicula iaculis.

Chapter 4

# Discussion

Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Aenean nonummy turpis id odio. Integer euismod imperdiet turpis. Ut nec leo nec diam imperdiet lacinia. Etiam eget lacus eget mi ultricies posuere. In placerat tristique tortor. Sed porta vestibulum metus. Nulla iaculis sollicitudin pede. Fusce luctus tellus in dolor. Curabitur auctor velit a sem. Morbi sapien. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Donec adipiscing urna vehicula nunc. Sed ornare leo in leo. In rhoncus leo ut dui. Aenean dolor quam, volutpat nec, fringilla id, consectetuer vel, pede.

Nulla malesuada risus ut urna. Aenean pretium velit sit amet metus. Duis iaculis. In hac habitasse platea dictumst. Nullam molestie turpis eget nisl. Duis a massa id pede dapibus ultricies. Sed eu leo. In at mauris sit amet tortor bibendum varius. Phasellus justo risus, posuere in, sagittis ac, varius vel, tortor. Quisque id enim. Phasellus consequat, libero pretium nonummy fringilla, tortor lacus vestibulum nunc, ut rhoncus ligula neque id justo. Nullam accumsan euismod nunc. Proin vitae ipsum ac metus dictum tempus. Nam ut wisi. Quisque tortor felis, interdum ac, sodales a, semper a, sem. Curabitur in velit sit amet dui tristique sodales. Vivamus mauris pede, lacinia eget, pellentesque quis, scelerisque eu, est. Aliquam risus. Quisque bibendum pede eu dolor.

Donec tempus neque vitae est. Aenean egestas odio sed risus ullamcorper ullamcorper. Sed in nulla a tortor tincidunt egestas. Nam sapien tortor, elementum sit amet, aliquam in, porttitor faucibus, enim. Nullam congue suscipit nibh. Quisque convallis. Praesent arcu nibh, vehicula eget, accumsan eu, tincidunt a, nibh. Suspendisse vulputate, tortor quis adipiscing viverra, lacus nibh dignissim tellus, eu suscipit risus ante fringilla diam. Quisque a libero vel pede imperdiet aliquet. Pellentesque nunc nibh, eleifend a, consequat consequat, hendrerit nec, diam. Sed urna. Maecenas laoreet eleifend neque. Vivamus purus odio, eleifend non, iaculis a, ultrices sit amet, urna. Mauris faucibus odio vitae risus. In nisl. Praesent purus. Integer iaculis, sem eu egestas lacinia, lacus pede scelerisque augue, in ullamcorper dolor eros ac lacus. Nunc in libero.

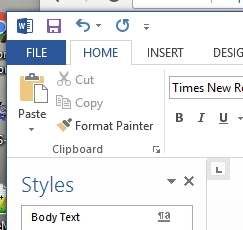


Figure 4.1 Another figure added to make sure the formatting is correct.

Fusce suscipit cursus sem. Vivamus risus mi, egestas ac, imperdiet varius, faucibus quis, leo. Aenean tincidunt. Donec suscipit. Cras id justo quis nibh scelerisque dignissim. Ali- quam sagittis elementum dolor. Aenean consectetuer justo in pede. Curabitur ullamcorper ligula nec orci. Aliquam purus turpis, aliquam id, ornare vitae, porttitor non, wisi. Maecenas luctus porta lorem. Donec vitae ligula eu ante pretium varius. Proin tortor metus, convallis et, hendrerit non, scelerisque in, urna. Cras quis libero eu ligula bibendum tempor. Vivamus tellus quam, malesuada eu, tempus sed, tempor sed, velit. Donec lacinia auctor libero.

Praesent sed neque id pede mollis rutrum. Vestibulum iaculis risus. Pellentesque lacus. Ut quis nunc sed odio malesuada egestas. Duis a magna sit amet ligula tristique pretium.

Ut pharetra. Vestibulum imperdiet magna nec wisi. Mauris convallis. Sed accumsan sollic- itudin massa. Sed id enim. Nunc pede enim, lacinia ut, pulvinar quis, suscipit semper, elit. Cras accumsan erat vitae enim. Cras sollicitudin. Vestibulum rutrum blandit massa.

Sed gravida lectus ut purus. Morbi laoreet magna. Pellentesque eu wisi. Proin turpis. Integer sollicitudin augue nec dui. Fusce lectus. Vivamus faucibus nulla nec lacus. Integer diam. Pellentesque sodales, enim feugiat cursus volutpat, sem mauris dignissim mauris, quis consequat sem est fermentum ligula. Nullam justo lectus, condimentum sit amet, posuere a, fringilla mollis, felis. Morbi nulla nibh, pellentesque at, nonummy eu, sollicitudin nec, ipsum. Cras neque. Nunc augue. Nullam vitae quam id quam pulvinar blandit. Nunc sit amet orci. Aliquam erat elit, pharetra nec, aliquet a, gravida in, mi. Quisque urna enim, viverra quis, suscipit quis, tincidunt ut, sapien. Cras placerat consequat sem. Curabitur ac diam. Curabitur diam tortor, mollis et, viverra ac, tempus vel, metus.

Curabitur ac lorem. Vivamus non justo in dui mattis posuere. Etiam accumsan ligula id pede. Maecenas tincidunt diam nec velit. Praesent convallis sapien ac est. Aliquam ullamcorper euismod nulla. Integer mollis enim vel tortor. Nulla sodales placerat nunc. Sed tempus rutrum wisi. Duis accumsan gravida purus. Nunc nunc. Etiam facilisis dui eu sem. Vestibulum semper. Praesent eu eros. Vestibulum tellus nisl, dapibus id, vestibulum sit amet, placerat ac, mauris. Maecenas et elit ut erat placerat dictum. Nam feugiat, turpis et sodales volutpat, wisi quam rhoncus neque, vitae aliquam ipsum sapien vel enim. Maecenas suscipit cursus mi.

## Summary

Quisque consectetuer. In suscipit mauris a dolor pellentesque consectetuer. Mauris convallis neque non erat. In lacinia. Pellentesque leo eros, sagittis quis, fermentum quis, tincidunt ut, sapien. Maecenas sem. Curabitur eros odio, interdum eu, feugiat eu, porta ac, nisl. Curabitur nunc. Etiam fermentum convallis velit. Pellentesque laoreet lacus. Quisque sed elit. Nam quis tellus. Aliquam tellus arcu, adipiscing non, tincidunt eleifend, adipiscing quis, augue. Vivamus elementum placerat enim. Suspendisse ut tortor. Integer faucibus adipiscing felis. Aenean consectetuer mattis lectus. Morbi malesuada faucibus dolor. Nam lacus. Etiam arcu libero, malesuada vitae, aliquam vitae, blandit tristique, nisl.

Maecenas accumsan dapibus sapien. Duis pretium iaculis arcu. Curabitur ut lacus. Ali- quam vulputate. Suspendisse ut purus sed sem tempor rhoncus. Ut quam dui, fringilla at, dictum eget, ultricies quis, quam. Etiam sem est, pharetra non, vulputate in, pretium at, ipsum. Nunc semper sagittis orci. Sed scelerisque suscipit diam. Ut volutpat, dolor at ullamcorper tristique, eros purus mollis quam, sit amet ornare ante nunc et enim.

## Conclusion

Using Word should operate very similarly to using Latex in the sense that all the typing can be done initially, and the formatting worked out later. This template provides the structure and mechanics to provide all of the correct formatting with the clicks of a few buttons. The rigor associated with this tutorial will be rewarded by a much more pleasurable experience than most tend to associate with Word.

The author merits that Word and Latex approach a similar problem from different angles. Which one is better is truly subject to the user and industry for which a person is preparing reports. The author believes that Word is often discredited for being too “quirky” with its attempt at automation – and often feels the same way. By providing more structure to the interaction with Word, it can be seen that the program can provide a genuinely easy typing and formatting experience.

Cras egestas ipsum a nisl. Vivamus varius dolor ut dolor. Fusce vel enim. Pellentesque accumsan ligula et eros. Cras id lacus non tortor facilisis facilisis. Etiam nisl elit, cursus sed, fringilla in, congue nec, urna. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Integer at turpis. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Duis fringilla, ligula sed porta fringilla, ligula wisi commodo felis, ut adipiscing felis dui in enim. Suspendisse malesuada ultrices ante. Pellentesque scelerisque augue sit amet urna. Nulla volutpat aliquet tortor. Cras aliquam, tellus at aliquet pellentesque, justo sapien commodo leo, id rhoncus sapien quam at erat. Nulla commodo, wisi eget sollicitudin pretium, orci orci aliquam orci, ut cursus turpis justo et lacus. Nulla vel tortor. Quisque erat elit, viverra sit amet, sagittis eget, porta sit amet, lacus.

In hac habitasse platea dictumst. Proin at est. Curabitur tempus vulputate elit. Pellen- tesque sem. Praesent eu sapien. Duis elit magna, aliquet at, tempus sed, vehicula non, enim. Morbi viverra arcu nec purus. Vivamus fringilla, enim et commodo malesuada, tortor metus elementum ligula, nec aliquet est sapien ut lectus. Aliquam mi. Ut nec elit. Fusce euismod luctus tellus. Curabitur scelerisque. Nullam purus. Nam ultricies accumsan magna. Morbi pulvinar lorem sit amet ipsum. Donec ut justo vitae nibh mollis congue. Fusce quis diam. Praesent tempus eros ut quam.

This is the last sentence of Chapter 4.

Chapter 5

Tutorial

here is some text that is used as an introduction or summary to what this chapter titled “Tutorial” is about. Click just before “Chapter 5” and go to “Page Layout”, “Breaks”, and select “Next Page” under the “Section Break” part. click within “Chapter 5” anywhere and then click on the “ChapterNum” Style. Click in “Tutorial” and click “Heading 1” Style. Continue clicking or highlighting and applying styles. As mentioned above, make sure the chapter title is limited to one word. After it has been named, you will notice that the heading is showing information on the opening chapter page. To fix this, highlight the chapter title (eg, “Tutorial”), go to the insert tab and click “Bookmark” under the “Links” section. Within the box that appears, type the chapter title and click OK. This should make the heading disappear.

First Section of Tutorial

This is the first sentence of the First section. This section is an introduction to the chapter about the tutorial. Notice how the font and size is all wrong. It is easy to fix. First things first, select just ahead of “chapter 5” and add the section break (as described in 1.1.5.5). All of this should appear on a new page. Now highlight “Chapter 5” and click on the “ChapterNum” style. Notice how the spacing is all done automatically. Continue by highlighting “Tutorial” and adding the “Heading 1” style. Likewise, highlight “First section of tutorial” and apply the “Heading 2” style. Now highlight this entire paragraph and apply the “Body Text” style. Now it blends in completely with the rest of the paper. Below, repeat the steps to the “Second Section of Tutorial” and the following paragraph. It is easy to see how all that is needed is to type the text that is needed (with appropriate new lines), highlight, apply style, and everything else is taken care of. In the second section, I have added some of the latin text from above to span a few pages so you can see that the “breadcrumbs” at the top of the page automatically update. Feel free to adjust the text in the headings to see how they change as well. Enjoy!

Second Section of Tutorial

This the first sentence of the second section. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Aenean nonummy turpis id odio. Integer euismod imperdiet turpis. Ut nec leo nec diam imperdiet lacinia. Etiam eget lacus eget mi ultricies posuere. In placerat tristique tortor. Sed porta vestibulum metus. Nulla iaculis sollicitudin pede. Fusce luctus tellus in dolor. Curabitur auctor velit a sem. Morbi sapien. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Donec adipiscing urna vehicula nunc. Sed ornare leo in leo. In rhoncus leo ut dui. Aenean dolor quam, volutpat nec, fringilla id, consectetuer vel, pede.

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Appendix A Code

A LaTeX package was originally mentioned in the template as a way to insert code in the Appendix. The current author, unfortunately, does not have a great feel for the addition of code at this point.

Listing A.1: Data\_Bus.java: Setting up the class.

1 **package** com.example.mycoolapp;

3 **import** android.app.Activity;

**import** android.content.Intent;

5 **import** android.os.Bundle;

**import** android.view.View;

7 **import** android.widget.Button;

**import** android.widget.TextView;

9

*// I am creating a comment that is very very long to demonstrate how the line wrapping ←' '→system works. You should see a symbol to annotate that it has been wrapped to ←' '→the next line.*

11 **public class** Data\_Bus **extends** Activity { Button Next;

13 TextView textdisplay1, textdisplay2;

15 @Override

**protected void** onCreate(Bundle savedInstanceState) {

17 *// TODO Auto−generated method stub*

**super**.onCreate(savedInstanceState);

19 setContentView(R.layout.adc\_databustest);

Next = (Button) findViewById (R.id.checkButton);

21 textdisplay1 = (TextView) findViewById (R.id.tvTop); textdisplay2 = (TextView) findViewById (R.id.tvBottom);

23

}

25 }

Listing A.2: AndroidManifest.xml: Configuration for the Android UI.

1 <?xml version="1.0" encoding="utf*−*8"?>

<**manifest** [xmlns:android="http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android)

3 package="com.example.mycoolapp" android:versionCode="1"

5 android:versionName="1.0" >

7 <uses*−*sdk android:minSdkVersion="13"

9 android:targetSdkVersion="13" />

11 <application android:allowBackup="true"

13 android:icon="@drawable/ic\_launcher" android:label="@string/app\_name"

15 android:theme="@style/AppTheme" >

17 <activity android:name=".MainActivity"

19 android:label="@string/app\_name" >

<intent*−*filter>\_\_\_\_\_\_

Glossary

**dissertation** A large pile of paper that professors use to prop up shelves

**glossary** a place to put all the terms that confuse people.

**ohm** unit of electrical resistance.

Acronyms

**LED** Light-emitting diode

**RFID** Radio Frequency IDentification

**MS** Microsoft

Index

Latex, 1, 2

Word, 1, 2

1. <http://en.ru.is/the-university/ru-code-of-ethics/> – see Item 8 and General Rules on Study and Examinations [↑](#footnote-ref-1)
2. <http://en.ru.is/studies/study--and-examination-rules/> – see Article 4.5 [↑](#footnote-ref-2)
3. see also the document "Your Work - Your Contribution" <http://www.ru.is/hugverk>, available only in Icelandic [↑](#footnote-ref-3)
4. Autonomous Undersea Vehicle [↑](#footnote-ref-4)