

Document Preparation And Tools

**Dr Maheen Hasib
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In this lecture...

- Structuring your dissertation
- Tools
 - LaTeX
- Top 10 ways to annoy your reader

Structuring your Dissertation

Why?

- How does your reader know the work you've done?
- Why should your markers do the work for you?
- Who stands to benefit from a higher mark?

If you've done the work, you should get the mark!

When?

- You need as much time at the end as possible.
- You will forget important details if you don't write them down.
- You may be able to get feedback early enough to use it.

Yesterday if not sooner!

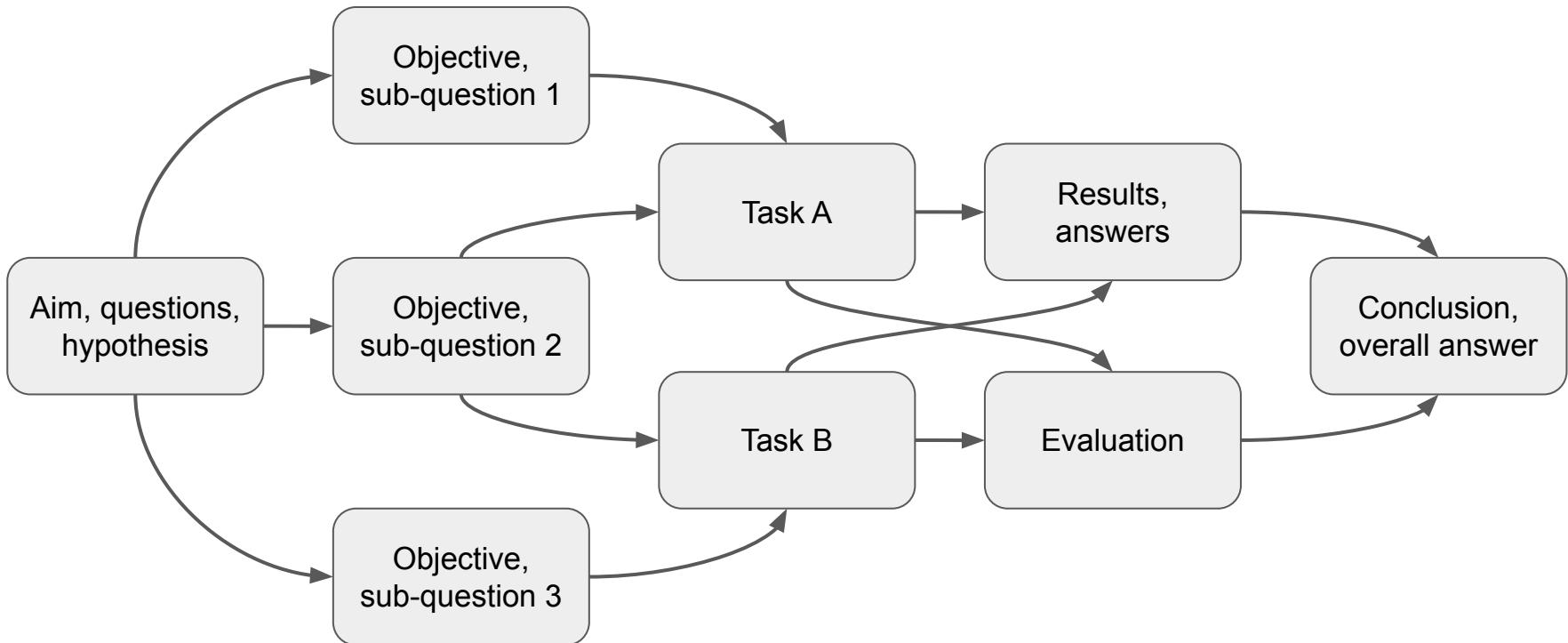
The Dissertation

- The dissertation is what we **mark**.
- The dissertation is the **evidence** of what you did.
- It is **not a narrative** of your work, it shows how your mind **tackled** the project.
- The dissertation shows:
 - **Understanding**
 - **Logical and critical thinking**

Dissertation Structure

- Structure shows the **logic** of your project. It is an alternative to a chronological narrative.
- Structure shows what the parts of your dissertation are **meant to be doing**.
- Structure helps you to **know what to write**.
- Structure is essential for the reader to see **what they are getting!**

Dissertation Structure



Components

Your dissertation should have:

- A big question, **aim**, or hypothesis;
- Several **objectives**, sub-questions or sub-hypotheses which combine to answer the big question;
- Several **tasks** which combine to provide answers for the sub-questions;
- An **evaluation** to show the reader your tasks do work;
- A collection of **results** and/or answers, built up by executing the tasks;
- A final answer or set of **conclusions** based on the results and answering the big question.

- You may change your aim and your objectives depending on how things work out.
- But you should always have a clear idea what your aim and objectives are meant to be.
- You should always know which tasks are addressing which objectives (this will usually not be a one-to-one relationship).
- Your final answer must address your main question.

Signposting

- The structure of a project is usually a forking/joining graph of activities.
- The physical constraints of text (it is sequential and linear) make it very difficult to show the actual project structure.
- Thus we put sign posts into the text.
- **At the start** of each chapter say:
 - What it contains and aims to show
 - What earlier parts of the document have fed into it
- **At the end** of each chapter say:
 - What the reader was intended to get from it
 - Which sections it feeds into later

Getting Started

- Get hold of some **good examples** of past dissertations (ask your supervisor, check the library).
- Plot your structures:
 - Produce a version of the **diagram for your project**.
 - Produce a proposed chapter and section breakdown (**table of contents**).
 - Start laying out the chapter/section main points.
- Discuss what you have produced with your **supervisor**.

When Writing

- Write **simple, clear English**. Avoid long and confusing sentences.
- Don't hesitate to **ask for feedback**. And **make time** for it.
- Take time to **check/review your document** (content and format).

**Remember your reader,
make the job easy for them!**



Tools

Tools



LATEX

Menu Home

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Code Editor Visual Editor Recompile 29 Share Layout 54% ...

acm_format appendices setup text main_acm.tex **main.tex** README.md

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File outline

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5 \input{setup/packages}
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21 %   \institution{\docSchool, \docInstitution}
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24 % }
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Top 10 ways to annoy your reader

by Dr Stefano Padilla

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1 Introduction

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C Document Preparation

C.1 Declaration

The following declaration statement should be included in both the first deliverable and the final dissertation.

DECLARATION

I, *your name* confirm that this work submitted for assessment is my own and is expressed in my own words. Any uses made within it of the works of other authors in any form (e.g., ideas, equations, figures, text, tables, programs) are properly acknowledged at any point of their use. A list of the references employed is included.

Signed: *your signature*

Date: *date of submission*

C.2 Formatting

- Typed, **single sided**, double spaced, point size 11, 1-inch margins on A4 sheets. Excerpts of code or pseudo-code, captions and the like should be single spaced.
- Pages should be numbered, as should chapters and sections within chapters.
- Chapters should start on a new page.

2. Difficult to read

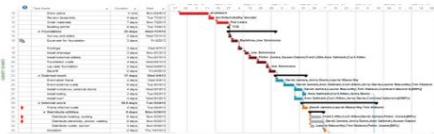
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3. Rushed conclusions

7. Conclusions

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8. References

1. Robert Amar, James Eagan, and John Stasko. 2005. Low-Level Components of Analytic Activity in Information Visualization. In Proceedings of the 2005 IEEE Symposium on Information Visualization (INFOVIS '05). IEEE Computer Society, Washington, DC, USA, 15.
2. Juhee Bae and Benjamin Watson. 2014. Towards a Better Understanding and Application of the Principles of Visual Communication. In Handbook of Human Centric Visualization, 179-202. Springer New York, 5. Mercedes B. Ben-Av and Dov Sagiv. 1995. Perceptual grouping by similarity and proximity: Experimental results can be predicted by intensity autocorrelations. *Vision research* 35, no. 6: 853-866.
3. Alex Bigelow, Steven Drucker, Daniel Fisher, and Miriah Meyer. 2014. Reflections on how designers design with data. In Proceedings of the 2014 International Working Conference on Advanced Visual Interfaces (AVI '14). ACM, New York, NY, USA, 17- 24. <http://doi.acm.org/10.1145/2598153.2598175>
4. Stuart K. Card, Jock D. Mackinlay, and Ben Shneiderman (Eds.). 1999. Readings in Information Visualization: Using Vision to Think. Morgan Kaufmann Publishers Inc., San Francisco, CA, USA.
5. Marianne Sheelagh Therese Corpendant. 1999. A Framework for Elastic Presentation Space. Ph.D. Dissertation. Simon Fraser University, Burnaby, BC, Canada, Canada. AA99051848.
6. Ed Hua-hsin Chi and John Riedl. 1998. An Operator Interaction Framework for Visualization Systems. In Proceedings of the 1998 IEEE Symposium on Information Visualization (INFOVIS '98). IEEE Computer Society, Washington, DC, USA, 63-70. 10. Lydia B. Chilton, Juhu Kim, Paul André, Felicia Cordeiro, James A. Landay, Daniel S. Weld, Steven P. Dow, Robert C. Miller, and Haoli Zhang. 2014. Frenzy: collaborative data organization for creating conference sessions. In Proceedings of the 32nd annual ACM conference on Human factors in computing systems [CHI '14]. ACM, New York, NY, USA, 1255-1264. DOI=10.1145/2556288.2557375. <http://doi.acm.org/10.1145/2556288.2557375>
7. Juliet Corbin and Anselm Strauss. 2014. Basics of qualitative research: Techniques and procedures for developing grounded theory. Sage publications.
8. Kelly L. Dempski and Brandon L. Harvey. 2005. Touchable interactive walls: opportunities and challenges. In Proceedings of the 4th international conference on Entertainment Computing (ICEC'05). Springer-Verlag, Berlin, Heidelberg, 192-202. http://dx.doi.org/10.1007/11558651_19
9. Stephen G. Eick. 2000. Visualizing multi-dimensional data. ACM SIGGRAPH computer graphics 34, no. 1: 61-67. 14. Micheline Elias and Anastasia Bezerianos. 2011. Exploration views: understanding dashboard creation and customization for visualization novices. In Proceedings of the 13th IFIP TC 13 international conference on Human-computer interaction - Volume Part IV (INTERACT'11), Vol. Part IV. Springer-Verlag, Berlin, Heidelberg, 274-291.
10. Niklas Elmquist and Ji Soo Yi. 2012. Patterns for visualization evaluation. In Proceedings of the 2012 BELIV Workshop: Beyond Time and Errors - Novel Evaluation Methods for Visualization (BELIV '12). ACM, New York, NY, USA, Article 12, 8 pages. <http://doi.acm.org/10.1145/2442576.2442588>
11. Michele Emmer. 2005. The visual mind II. MIT press. 17. EPSRC Working together theme. Retrieved on 23 of September 2015 from <https://www.epsrc.ac.uk/research/ourportfolio/themes/ict/introduction/workingtogether/> 18. Anders K. Ericsson, and Simon A. Herbert. 1980. Verbal reports as data. *Psychological review* 87, no. 3:215.

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5b. Too much consistency

1. Main heading

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It is important to note that the software development cycle is something that we cover in this course.

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It is important to note that the software development cycle is something that we cover in this course.

The course covers the software development cycle

7. Code/images not explained

3. Implementation

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```
int main()
{
    if (!glfwInit()) {
        cout << "Could not initialise GLFW..."; // Checking for GLFW
        return 0;
    }

    glfwSetErrorHandler(errorCallbackGLFW); // Setup a function to catch and display all GLFW errors.

    hintsGLFW(); // Setup GLFW with various hints.

    Start a window using GLFW
    const char* title = "My OpenGL Application";
    const GLFWvidmode mode = glfwGetPrimaryMonitor();
    windowWidth = mode.width; windowHeight = mode.height;
    window = glfwCreateWindow(windowWidth, windowHeight, title.c_str(), glfwGetPrimaryMonitor(),
    NULL); //window = glfwCreateWindow(windowWidth, windowHeight, title.c_str(), NULL, NULL);
    if (!window) {
        cout << "Could not initialise GLFW..."; // Window or OpenGL context creation failed
        endProgram();
        return 0;
    }

    glfwMakeContextCurrent(window); // making the OpenGL context current
    Start GLSL (note: always initialise GLSL after creating your window context)
    glfwExperimental = GL_TRUE; // hack: catching them all + forcing newest debug callback (glDebugMessageCallback)
    glslangVersion = 100;
    if (GLSL_DM != errNone) { // Problems starting GLSL
        cout << "Could not initialise GLSL..."; // Set error callback
        endProgram();
        return 0;
    }

    debug(); // Setup callback to catch OpenGL errors.
    // Setup all the message loop callbacks.
    glfwSetWindowSizeCallback(window, onResizeCallback); // Set callback for resize
    glfwSetKeyCallback(window, onKeyCallback); // Set callback for keys
    glfwSetMouseButtonCallback(window, onMouseButtonCallback); // Set callback for mouse click
    
```

```
move glfwSetCursorPosCallback(window, onMouseMoveCallback); // Set callback for mouse
wheel glfwSetScrollCallback(window, onMouseWheelCallback); // Set callback for mouse

Set mouse cursor.
	glfwSetInputMode(window, GLFW_CURSOR, GLFW_CURSOR_NORMAL); // Set mouse cursor FPS.

variables. setupRender(); // setup scene render
variables. startup(); // Setup all
necessary information for startup (aka. load texture, shaders, models, etc).

do // run until
the window is closed.

    double currentTime = glfwGetTime(); // retrieve timestamp
    deltaTime = currentTime - lastTime; // Calculate delta time
    lastTime = currentTime; // Save for next frame

calculations. glfwPollEvents(); // poll callbacks
update(currentTime); // update (physics,
animation, structures, etc)
render(currentTime); // call render function.

tearing. glfwSwapBuffers(window); // swap buffers (avoid flickering and

key pressed running && (glfwGetKey(window, GLFW_KEY_ESCAPE) == GLFW_RELEASE); // exit if escape
while (running);
    while (running); // Close and clean everything up...

cout << "unless any key to continue...\n";
cin.ignore(); cin.get(); // delay closing console to read debugging errors.

return 0;
}

void errorCallbackGLFW(int error, const char* description) {
    cout << "Error GLFW: " << description << "\n";
}

void hintGLFW() {
    glfwWindowHint(GLFW_OPENGL_DEBUG_CONTEXT, GL_TRUE); // Create context in
debug mode
    glfwWindowHint(GLFW_CONTEXT_VERSION_MAJOR, 4);
    glfwWindowHint(GLFW_CONTEXT_VERSION_MINOR, 3);
}

void endProgram() {
    glfwMakeContextCurrent(window); // destroys window handler
    glfwTerminate(); // destroys all windows and releases resources.
    delete[] texture; // tidy heap memory
}

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8. Unnecessary images

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9. Missing or rushed sections

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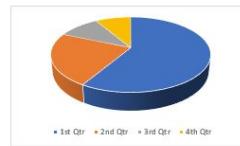


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6. Conclusions

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9. Missing or rushed sections

8.1 Deliverable 1: Research Report

What should it contain? At least the following sections:

Front Matter

- 8.2 Dissertation

What should it contain? At least the following sections:

Front Matter

6

Main Body

- Title page: including the following details.
 - Title of your project.
 - Your full name.
 - Your supervisors' names.
 - The caption "Final Year Dissertation".
 - The degree programme for which you are studying.
- Declaration: confirming that the dissertation is your own work (see Appendix C.1).
- Abstract: a short description of the project and the main conclusions – probably between two and three hundred words.
- Table of Contents: giving the main chapter and section titles and the pages on which they start.

Main Body

- Introduction: summarising objectives, problems solved to achieve the objectives, methods, results, achievements and limits, and sketching the organisation of the dissertation.
- Background: discussing related work found in the technical literature and its relevance to your project.
- A central part in several sections, describing the work carried out as part of the dissertation.
- Testing and performance assessment: reporting on performance evaluation and any experimental work carried out.
- Conclusions: summarising:
 - the main achievements of your work, in relation to the initial objectives as well as similar work by others;
 - the main limitations of your work;
 - possible extensions and future work.

Back Matter

- References: listing complete details of all the documents cited in the text.
- Bibliography: listing documents related to your work but not cited in the text (if applicable).
- Appendices: consult with your supervisor on what to include in the appendices.

D Deliverable 1 Marking Rubric

Criteria	Level of Achievement	Marks
Abstract, Aims, Objectives, Project Literacy	• Are these clearly expressed, testable, and meaningful?	0 to 10

E Dissertation Supervisor Marking Rubric

Criteria	Level of Achievement	Marks
Technical Quality	• Is the topic meaningful?	0 to 20

F Dissertation 2nd/3rd Reader Marking Rubric

Criteria	Level of Achievement	Marks
Rationale and Objectives	<ul style="list-style-type: none">Is the topic meaningful, complex and challenging?Are the objectives and aims clearly stated?Are the main areas of investigation for the project identified?Has the student provided ideas and approaches of original thinking?	0 to 20
Review and Methodology	<ul style="list-style-type: none">Is there evidence of sufficient background reading?Is there evidence of a clear understanding of the project area/research topic?Is the literature study up to date and critically evaluated?How pertinent is the background/referenced material?Has the student used appropriate tools/software?Have the appropriate design methodologies been employed?	0 to 20
Results and Evaluation	<ul style="list-style-type: none">Are the results presented clearly in a logical sequence?	0 to 20

10. Lack of polish

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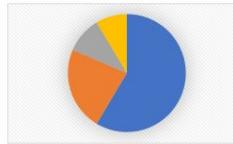
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5.2 Sub Heading

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6. Evaluation

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Conclusion

Conclusion

- Think about the **logic of your project:**
Aim, Objectives, Tasks, Evaluation, Results, Conclusion.
- **Structure your dissertation** to reflect that logic.
- Give your dissertation a **consistent format** and **clear content**.

**Remember your reader,
make the job easy for them!**