CSCM10 Computer Science Project Research Methods Writing a Background Research Report

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 $\label{eq:http://www.cs.swan.ac.uk/~csetzer/lectures/computerScienceProjectResearchMethods/current/index.html$

November 6, 2017

1 Details of Report

2 Writing a Good Report

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Writing a Background Research Report

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Assignment

From Assignment Handout (on Blackboard):

- A report surveying a research area of interest to you.
- Contributes 35% of the mark for the module.
- Approximately 2000 words.
- Due 8 December 2017 (11:00 am).
- You will need to submit an electronic copy via Blackboard/Turnitin and two paper copies.
- This report should consist of
 - $\bullet\,$ a review of the literature for a research area/topic and
 - include an indication of possible avenues for future research/project work.

1 Details of Report

Writing a Good Report

Topics

- Electronic Copy via blackboard.
- In addition 2 paper copies.
 - Print out two cover pages from College Intranet.
 - Print them out early, so that you don't have to do it in a rush.
 - Calculate in the possibility of printer problems when many students are submitting at the same time.
 - Stable them in front of your submission.
 - Hand it into the drop boxes outside Talbot PC Lab 043, Ground floor, Talbot building.
 - If you are submitting late and have a valid documented reason
 - (e.g. medical certificate)
 - you can get a penalty waver form for your coursework from the College intranet,
 - and submit it together with your coursework to the College of Science student information office Faraday-123.

- A list of topics will be made available on Blackboard.
- You can choose your own topic,
- or a topic from the list.
- You need to discuss your topic with your tutor (usually in the tutorials).

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		Story Teller's Rule		
		Story Tener S Rule		

1 Details of Report

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2 Writing a Good Report

Writing a Good Report

Section 2 based on material by Liam O'Reilly

- Step 1: Tell them what you will tell them.
- Step 2: Tell them.
- Step 3. Tell them what you told them.

A report should have

- A title page or a clearly worked out title,
- an abstract (optional),
- an introduction (Step 1),
- a body (Step 2),
- a summary or conclusion (Step 3),
- a bibliography (also called references).

- Should contain
 - the title of your document,
 - coursework reference (probably best: CSCM10 Report),
 - date of submission (for future referencing),
 - student number.
- I recommend to add "CSCM10 report" and your student number on every page.
 - allows to identify its purpose in case pages get loose.

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Abstract			Introduction		
usually inderSummarises	he title page, or put directly after the title, nted. in a few sentence what your document is about any reader who wants to decide whether to read		 Gives a mo When write v Keep a E.g. if write s Computive VK go computive pounds Briefly statt body. After readi should should 	main concepts in the report. privation motivating, don't write why you are motivat what could motivate the reader to read your a dry style in the motivation. motivating an essay on computer security, o comething like uter crime has been rising sharply in recent y vernment estimates ([3], p. 50) that the ann ter crime to businesses, has increased from X in 2005 to XX billion pounds in 2016 ces what will come in each major section ng this the reader be motivated to read your report, have a good idea what the report is about, nat is to come.	r document. one could rears The nual cost of XX billion
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- The body is where you present the bulk of the material.
- Should be logically structured (see below)

Summary / Conclusion

- If the report makes recommendations or analyses a topic
 - there should be a **Conclusion Section** which
 - clearly states the conclusion(s) of the report (which should already have been presented in the body).
 - summarises the report
 - reminds the reader what they have read.
- If the report simply reports on a topic
 - a conclusion does not seem appropriate.
 - Instead, the report should have a Summary Section, which
 - summarises the report
 - reminds the reader what they have read.
- Summary / conclusion should introduce no new topics.
- It should remind the reader of what they have read,
- and reiterate any conclusions.

сsсм10 Bibliography	Writing a Background Research Report	13/ 24	cscm10 General Good F	Writing a Background Research Report	14/24
Lecture on bibli	ographies will be given.		 As the read without ne Write with Give evider statements 	build be a self contained document. der reads it they should understand the con- eding a question, task or other description. precision. nce, proofs, supporting information for your discal. It is positive to write about weaknesse	

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- Avoid use of 1st person, i.e., don't do "I did"
- Use active voice:

No	Yes
I investigated	We investigated
Hence, I recommend to	Hence, we recommend to
It can be seen that	We can see that
34 tests were run	We ran 34 tests
These properties were thought	We wanted to retain these
desirable.	properties.
It might be thought that this	You might think this would be a
would be a type error.	type error.

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Logical Structure			Consistent Forma	atting			
structure you • Example: 1. Proposition Proposition proposition connectiv 1.1 Disju 1.2 Nega 	 Propositional Logic Propositional logic uses atomic propositions Atomic propositions can be 'glued' together using the logical connectives: and, or, implies, and equivalence. 1.1 Disjunction 1.2 Negation 		 Aim at uniform formatting. In MS Word you use for headings section heads such as "Heading 1", "Heading 2". Allows to generate table of contents (e.g. for your dissertation). Allows cross referencing. 				
	uction of implication to disjunction and negation.						
 2. Type The	ory.						

• Use plenty of citations. Citations are positive since they

• The style should be more dry scientific style, not like a

• allow the reader to check what you have been written

• and allows the reader to identify other material which could be

• document proper scientific working.

of interest to him/her.

magazine, no jargon, no slang.

- Figures should have a a caption, and should be referred to in the text.
- Usually they have numbers (for easier referencing).
- If a figure comes from some other source, you need to state clearly the source ("taken from [3]").

- The purpose of footnotes

 (at least in Computer Science)
 is to provide a place for distracting text
 that is not part of the main story.
 - The interested reader can choose to read the distracting part.

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Quotes			Before Submission		

• When quoting text, you need to make it clear that this is from a different source, e.g.

John ExampleAuthor states in [3], p. 381:

"This is a quoted text which is copied verbally from some other source it is quite long and intended"

Just writing [3] without quotation mark doesn't express that you are quoting verbally

- It is Not enough to prevent you from accusation of academic misconduct.
- Use of [3] means that some of the knowledge you present originates from [3] or that [3] is just some additional source of information.
- Quotations like this are benedificial and add to your report.

- Make sure all text is justified (straight line at the right side) where appropriate.
- Text has been spell-checked.
- Text is uniformly formatted (same font for text of the same category).
- References, cross references, page numbers are correct.
- Student number and module code is on title page, and is repeated on every page.