Source tracker

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Date	Work covered	Problems encountered	What next?	Notes if applicable
2017-11-16	Filled out PPR	wasn't yet entirely sure about fine details	complete the timescale	(entered retroactively)
2017-11-23	Decided in what for- mat to store this di- ary and then created it	Also considered tsv and what date format to use	Improve the timeline and add to the diary	
2017-11-23	Wrote a short script to display the diary in HTML form	Making this convenient and debugging/considering libraries	Add to the diary and maybe do something similar for timescale	
2017-12-04	Worked through the material on researching and referencing (AO2) from the sharepoint (to catch up on missed lesson)	Not sure what the abbreviations should be used for	Start to apply this to my own research	(This was entered on 12-07)
2017-12-07	Evaluated some previous pupils' EPs - found out that lots of marks are awarded for things other than actual writing	How the marking actually works	Expand my own timescale/diary and PPR	
2017-12-14	Got my dad to peer review my project so far	The timescale and diary can be a little unclear and haven't started dissertation	Try to add more information to each diary entry and perhaps develop a Gantt chart	

2017-12-20	Did some research on Hamming codes and took some notes on the application/im- plementation	0-based vs 1-based in- dexing	Start to translate to actual code	
2017-12-30	Started planning how to implement a Ham- ming encoder in bi- nary Python		Start to implement the binary data for- mats and algorithms	
2018-1-4	Started to implement the Hamming encoder	Indexing into data vs code	Finish the program and write test plan	$ \begin{array}{ccc} Uses & list/bit & representation \end{array} $
2018-1-4	Considered available primary research	Survey is very much inapplicable here	Contact Leo and Aylwyn	
2018-1-7	Completed and implemented test plan for Hamming encoder	Remembering/research how to use unittest	ingventually add some more test cases/use real world or gener- ated data	Start to work more on dissertation/how to present program
2018-1-11	Decided on using La- TeX to write my dissertation and re- searched and experi- mented with different themes	Latex workflow (using pdflatex and repeated compilation) and some latex bugs	Start to write the document and look at bibtex	
2018-1-22	Started to develop the LaTeX document structure and made a rough first draft of dissertation (test- ing ideas and aesthet- ics)	What font size to use	Also consider how diagrams might be incorporated	I can reuse some of the things found do- ing computing assign- ments
2018-1-25	Reviewed progress so far	OneDrive didn't really sufficiently reflect what I'd done	Fill in bits of diary and upload stuff to OneDrive	
2018-1-25	Started looking at TikZ to present a mindmap of my project/initial thoughts	Using tikz without graphical bugs and realised I wasn't entirely sure how I would present my project as a mindmap	Continue to work on mindmap/look at how to include it in dissertation	

2018-1-29	Researched BibTex and set up the .bib file w/ makefile. Got two original sources (see sources.bib)	How to cite an introductory-type PDF in bibtex (ended up using @misc)	Continue to research and add sources. Also add a source tracker rather than just a bibliography	
2018-2-1	Found two more sources and cited them in .bib file	Choosing appropriate tags and figuring out how to cite with bibtex	Continue to find sources/think about where the sources can be incorporated in dissertation	
2018-2-1	Retroactively documented problems and approach in diary	Frustration with in- advertently incorrect data entry	Continue to fully document what I do	
2018-2-1	Updated the Python HTML compiler script to warn of bad csv formatting (to prevent frustration)		I really want to improve the format and content of my timescale	
2018-2-13	Found paper on polynomial codes which I took some notes on and then added to my bibliography	It seems quite sophisticated and is a little dense	At some point consider how these might be implemented	
2018-2-16	Found a good paper on Hadamard codes and did some other research on Hadamard codes	The actual paper doesn't seem entirely applicable	Implement basic Hadamard codes and isomorph to DNA	
2018-2-19	Started to write the Python code to gen- erate Hadamard ma- trices	Whether to use numpy or make a custom matrix class	Write a test suite and complete the code	
2018-3-1	Finished the Hadamard matrix program	Decided not to use an object oriented model due to the introduced overhead and instead used primitive lists. I also decided to modify the 1/-1 system to be boolean 1/0 as this fits my requirements better	Finish the testing scheme	I also found another more appropriate source to use for hadamard codes

2018-3-7	Signed up for a JS- TOR account under the school network af- ter finding out that could be done on the library sharepoint		Use this to find more papers and see if any existing sources I have are on there so I can use JSTOR to cite them
2018-3-7	Found a number of papers on Hadamard codes and polynomial codes	Some of them contain some very dense mathematics in niche fields	I want to find more sources and also I want to figure out how to use a Harvard style with BibTeX
2018-3-8	I spent a while config- uring natbib for use with my dissertation so now my references and citations are all in the Harvard style	There was a conflict between natbib and savetrees with the ex- treme parameter so I had to change to full- page	Write a Hadamard tester and start to write about Hadamard codes/ma- trices in dissertation
2018-3-9	Changed my source tracker so that I now have separate columns for evalu- ation and content to provide clearer evidence of research	I spent about an hour trying to make my LaTeX table pretty (worth it)	Start writing the actual evaluations/content summaries for each source