02/02/15 - 11/02/15

0.1 Dissertation

Started filling out the skeleton of my dissertation. On $Wednesday 11th Feburary$ I am starting to write the Introduction and Theory parts.

```
4c37025... 2015-02-11 (10 minutes ago)
Removed the structure of the project from the main .
    tex file into the readme for clarity.

M       Dissertation.tex
```

```
7279140... 2015-02-11 (17 minutes ago)
Started the initial preparation for the write up of my
    dissertation. Using the guidelines provided by the
    department. Going to start writing the
   Introduction to the project and possibly the theory
    involved.

A       1-Introduction/Introduction.tex
A       2-Theory/Theory.tex
A       3-Code/Code.tex
A       4-Results/Results.tex
A       5-DiscussionofResults/DiscussionofResults.tex
A       6-Conclusions/Conclusions.tex
A       7-Appendices/Appendices.tex
A       8-References/References.tex
A       9-Acknowledgements/Acknowledgements.tex
A       Dissertation.pdf
A       Dissertation.tex
M       README.md
```

```
1e0ccd7... 2015-02-11 (55 minutes ago)
Initial commit

A       .gitignore
A       README.md
```

0.2 Code

```
4c43c7f... 2015-02-10 (19 hours ago)
Today has been a day of wrangling code to get it to do
    what I want. Meeting with supervisor at 6pm, any
   new steps that are required that arise after the
   meeting will be the target of the next few days
   work. I can output a text representation of the
   lattice once it has been driven to the target
   energy. Added *.lat to the .gitignore so that the
   text lattice file isn't version controlled.

M       .gitignore
M       Makefile
M       main.cpp
M       param.cfg
M       potts.cpp


2e3b5e6... 2015-02-10 (24 hours ago)
Trying to improve the speed in which the energy is
   driven to the target, instead of randomly picking
   points, I now go through the lattice one point at a
    time trying to push the energy towards the target.

M       .gitignore
M       Makefile
M       main.cpp
D       output.dat
M       param.cfg
M       potts.cpp
M       potts.h


c7acffe... 2015-02-09 (2 days ago)
Trying to add live qt window to render the lattice
   state in near real time. When that is done I can
   start improving the method I am using to go towards
    the energy band
```

```
M       Makefile
M       main.cpp
M       param.cfg
M       potts.cpp
M       potts.h
```

```
a9f0eed... 2015-02-09 (2 days ago)
Added a .gitignore to ensure that compiled objects don
   't get put into the repository.

A       .gitignore
```

```
3002b58... 2015-02-09 (2 days ago)
Initial commit Work done thus far: Initialisation of
   the Lattice either randomly or aligned to random q
   state. Enforced Periodic Boundary Conditions using
   the % operator rather than a function. Energy
   Calculation can now be done with relative ease (
   might need to check that for errors) Partially
   written a function that when given a specific
   lattice point drives the energy towards the target
   (very inefficent atm because it is given random
   coordinates) Going to start writing a function that
    identifies regions and the lattice points on the
   boundary and pass those to the driving algorithm

A       Makefile
A       README.md
A       main.cpp
A       output.dat
A       param.cfg
A       potts.cpp
A       potts.h
A       utilityfunctions.cpp
A       utilityfunctions.h
```