Lecture: 15-1

Prerequisites for this lecture are: 14-1, 14-2 and 14-3.

Work flow for touchmap, chisel, penguin tower, doom3 usage

- touchmap should be able produce a text map which is suitable for penguin tower, isometric penguin tower and doom3
- all maps are in text, doom3 maps and penguin tower maps can be produced using touchmap and chisel

Work flow for touchmap, chisel, penguin tower, doom3 usage

- using a terminal in the vmware or R-Pi linux type:
- \$ **d3**
- this will take a few seconds and will:
 - create a set of configuration files for doom3
 - download the chisel source code from github and place it into: \$HOME/Sandpit/chisel
- it then starts up doom3

chisel

after the doom3 window appears open up another command line terminal and type:

```
$ cd
$ cd Sandpit/chisel/python
$ ls ../maps
$ ./developer-txt2map ../maps/three.txt
```

Chisel map: three.txt

\$HOME/Sandpit/chisel/maps/three.txt

```
define 1 room 1
define 2 room 2
define 3 room 3
define s worldspawn
define o monster monster_demon_imp
define h monster monster_demon_hellknight
define S monster monster_demon_tick
######
# 3
   S
```

Touchmap

- should eventually generate text files similar to three.txt
- chisel will produce doom3 and penguin tower equivalents from your text map

Touchmap

- now return to the doom3 window and press the tilde key ~
 - this enables the in game doom3 console
- in this console type: dmap tiny.map
 - dmap bsp compiles the tiny.map
- once this is complete, type in the doom3 console: map tiny.map
 - which loads in the bsp compiled map tiny.map
- notice that the output from chisel is always tiny.map
 - this is for convenience and configuration
 - chisel can output the file into any named file if necessary

Penguin Tower

- is a multiplayer 2 dimensional game
 - inspired by Morloc Tower (http://www.mobygames.com/game/dunjonquest-morlocs-tower) although Penguin Tower is very different
- however the screen layout and many of the key commands are the same

Penguin Tower

- you can download a copy of the game from here \(\http:// floppsie.comp.glam.ac.uk/download/penguin-tower/ penguin-tower-2.0.tar.gz \).
- you then need to extract the archive using the following command line:
- \$ mkdir \$HOME/Sandpit
 - \$ cd \$HOME/Sandpit
 - \$ wget http://floppsie.comp.glam.ac.uk/download/penguin-tower/penguin-tower-2.0.tar.gz
 - \$ tar zxvf penguin-tower-2.0.tar.gz

Creating important directories

these directories need to created before penguin tower can be built

```
$ mkdir -p $HOME/Sandpit
$ cd $HOME/Sandpit
$ mkdir -p $HOME/opt/bin
$ mkdir -p build-ptower
```

Building Penguin Tower

you should be able to build it by typing:

```
$ cd $HOME/Sandpit
$ mkdir -p build-ptower
$ cd build-ptower
$ ../penguin-tower-2.0/configure --prefix=$HOME/opt
$ make
$ cd ..
```

- you need to check that the make program above exited with no error messages
- note the build will recreate all images in the build directory.

Installing your own copy of Penguin Tower

you can install your own copy of Penguin Tower into your directory (\$HOME/opt) specified by the --prefix to the ./configure command

```
$ cd $HOME/Sandpit
$ mkdir -p build-ptower
$ cd build-ptower
$ make install
$ cd ...
```

Penguin Tower keyboard controls

■ keyboard controls (ptower.html).

Configure notes

- you only need to execute ../penguin-tower-2.0/configure --prefix=\$HOME/opt once ever in this directory (unless you modify the package)
- check out the documentation here \(\ptower.html \).