Re-initialisation of the data directories

you will need the latest directory configuration from here:

```
$ cd

$ rm -f skeleton-doom3-data.tar.gz

$ wget http://floppsie.comp.glam.ac.uk/download/targz/skeleton-doom3-data.tar.gz

$ tar zxf skeleton-doom3-data.tar.gz
```

this will re-initialise doom3 directories and also configure emacs and gdb which is vital for compiling and debugging the game engine

Download the doom3 engine source code

- we make sure we all have the same directory structure as we will use emacs to compile/debug dhewm3
- \$ mkdir -p \$HOME/Sandpit/git-doom3
- and fetch the engine
- \$ cd \$HOME/Sandpit/git-doom3
 - \$ git clone https://github.com/gaiusm/pybot-dhewm3

Compile the doom3 engine from the command line

- we will compile it from within emacs
- start emacs and press F5 to compile and debug doom3

Generate a map for doom3

before we can run doom3 we need to generate a suitable map

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

this will generate tiny.map which is used in the next few slides

Running doom3

- to run doom3 type:
- \$ **d3**
- once the splash screen has finished press the ~ key
- now type dmap tiny.map
 - this will compile the map
- and now map tiny.map
 - which loads in the compiled map
- you should see yourself and pybot appear in a room
 - pybot will come and find you

Running doom3

- once you have finished with the doom3 engine
 - you will now need to use the command line to kill off the python bot (which will still be running in the background)

```
$ ps aux | grep python
$ kill -9 python pid number
```

make sure this process no longer appears in the process list (using ps)

Better Python and Doom3 running

- killing off the python bot can become tiresome
 - so you can use mrun to spawn a process and send its output to another terminal window
 - when mrun stops, all its children windows are killed and all Python bots disappear
- try running the game again using these commands:
- \$ cd Sandpit/git-doom3/pybot-dhewm3
 - \$./shell/debug-bots single-bot.par
- when doom3 finishes, press the enter key in the above window
 - the Python window should also disappear and tidy up gracefully

Further reading

- examine the shell scripts
 - ./shell/debug-bots and ./shell/debug-only-bots
- write down an explanation of their function