

## Penguin Tower

- is a multiplayer 2 dimensional game
  - inspired by [Morloc Tower](http://www.mobygames.com/game/dunjonquest-morlocs-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-1.0.tar.gz) (`http://floppsie.comp.glam.ac.uk/download/penguin-tower/penguin-tower-1.0.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-t
$ tar zxvf penguin-tower-1.0.tar.gz
```

## Creating important directories

- these directories need to be created before penguin tower can be built

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

## Building Penguin Tower

- you should be able to build it by typing:

```
$ cd $HOME/Sandpit
$ cd build-ptower
$ ../penguin-tower-1.0/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
  $ cd build-ptower
  $ make install
  $ cd ..

```

## Penguin Tower keyboard controls

- [keyboard controls](#) (`ptower.html`).

## Running the client of Penguin Tower

- you should be able to run the client like this:
- `$ $HOME/opt/bin/penguin-tower mcgreg.comp.glam.ac.uk:7000`
- also consider running it in fullscreen by:
- `$ $HOME/opt/bin/penguin-tower -f mcgreg.comp.glam.ac.uk:7000`

## Configure notes

- you only need to execute `../penguin-tower-1.0/configure --prefix=$HOME/opt` once ever in this directory (unless you modify the package)
- check out the documentation [here](#) (`ptower.html`).

## Configure notes

- you can also run the system installed version by typing:

- ```
$ penguin-tower mcgreg.comp.glam.ac.uk:7000
```

## Running your own Penguin Tower server

- can be done by opening a terminal and typing the following:

- ```
$ cd
$ ./opt/bin/ptower-server ./opt/share/ptower/maps/star
```

- to stop the server, type `^C` (press down the control key and then press the `c` key, now release both keys)

- there are a number of maps in the `$HOME/opt/share/penguin-tower/maps` directory

- `m1`, `star` and `glover`
- `star` is the smallest (5 rooms)

## Tutorial work

- examine the map file format in the maps directory
  - try making a simple change and running Penguin Tower again

- here is the documentation to [Penguin Tower](http://floppsie.comp.glam.ac.uk/Southwales/gaius/games/ptower.html) (`http://floppsie.comp.glam.ac.uk/Southwales/gaius/games/ptower.html`)