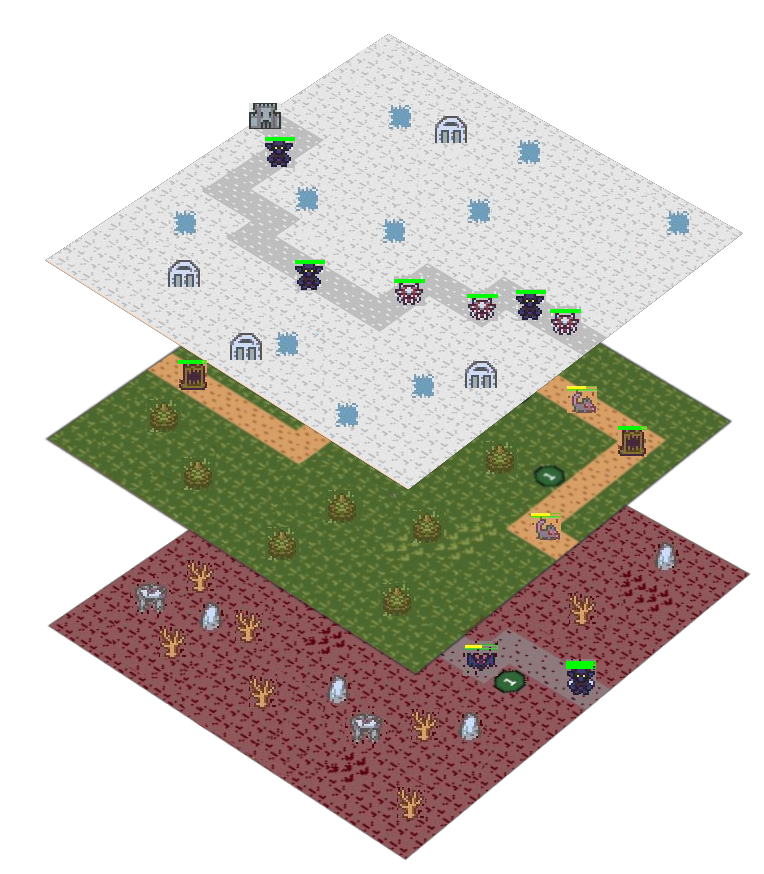
Tower Hopscotch

Manual



ZHAW School of Engineering, IT16a, Gruppe 5

Raphael Emberger Nicolas Eckhart Stefan Bösch Philipp Meier

06.12.2017

# Tower Hopscotch The 3D Tower Defense Game

Tower Hopscotch is a new take on the popular video game genre called tower defense. The player’s ultimate goal is to survive multiple waves of enemies by building and managing towers. Said towers defend the castle and therefore the player’s health by shooting enemies.

The challenge for the player is to build and upgrade towers in a strategic manner with a small amount of gold. Resource management and positioning of towers are the keys to success.

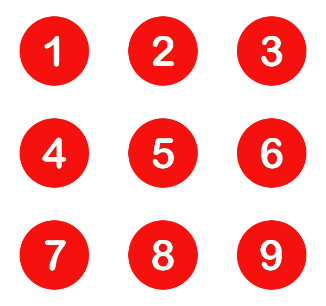
## Basic rules

* The player can build and upgrade towers by spending gold. It is also possible to salvage existing towers to get a fraction of the gold back.
* Enemy waves are called by player manually until there are either no wave left, or the player has lost.
* Every enemy that walks into the castle, reduces the player’s health.
* Towers can shoot enemies in a defined range to reduce their health and eventually kill them. For every destroyed enemy, the player receives a small amount of gold.

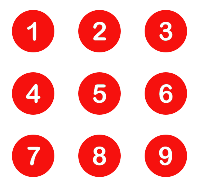
### Prototype Disclaimer

Since this is only the prototype of the game, the different layers Hell (red), Earth (green) and Heaven (white) are only presented two dimensionally.

# Game Loop

The game starts in a paused mode, where you the player are given the opportunity to prepare yourself for the first enemy wave. 

* Click on a tower button,  for instance to invoke the placement selection and hover to a valid position for your tower(s).
* Select a spot as you see fit (enemies only walk on the 3 paths). Try to cover as much of the paths    as possible.
* After your placement, you will notice that your gold  has been reduced by a small amount.
* Place as many towers as you like and once you feel ready, press the  button to call the first enemy wave

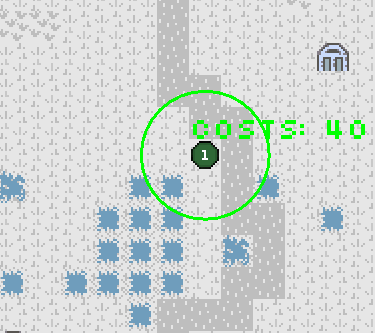
After the first wave, you will notice how your wave counterhas been reduced and that your health  probably dropped a bit.

Repeat the process and fight through each enemy wave.

# Tower Manipulation

## Upgrade

Towers can be upgraded in order to increase their damage and range. Some enemies are strong while others are fast, upgrading a tower can be a good strategy.



* Press the  button to initialize the tower upgrade.
* Hover your mouse over the tower,  for instance to see the upgrade’s costs and new range. (damage increase will not be visible) and click on it to make the upgrade.

After your upgrade, you will notice that the tower’s level has been increased by one.

## Destroy

For strategic reasons it can be necessary to destroy a tower. Towers can always be destroyed to get a fraction of the gold  back.

* Press the  button to initialize a tower destruction and click on the tower you want to delete.

After a tower destruction, you will notice that your gold  count has been increased.