# **Topdown Shooter Documentation**

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# Changes to the design

There were no significant changes. I wanted to add different monsters, but decided to add different spells first.

## Requirements met

### **Media requirements**

### Sound

- Have BGM for the title, gameplay and game over screens
- Have effect sounds for spells, damage and pick ups
- All in MP3s, because they're compatible with every browser except Opera Mini and I didn't want to have duplicate files with other formats

### **Images**

All PNGs

#### **Fonts**

Used two webfonts

#### Canvas

- Used Phaser framework
- Animations are used in the Magic Dart spell, the mana pickups, and enemies
- Particle system is used by the Mind Blast spell

### Interaction requirements

- Controls use mouse and keyboard
- Mapped to WASD and arrow keys
- Used Phaser's keyboard methods
- Shift + arrow lets you run

### **Usability requirements**

- Pauses if you change windows or press P
- Teaching: menu screen has instructions
- Feedback: score is displayed, and there are health and mana meters as well as audio feedback when the player is hit or runs out of mana
- Difficulty: spawn rate starts out lower and increases with score
- Title/instructions screen + Game screen + Game over screen

### **Extras**

- Kept track of high scores
- Made the spell system fairly modular so that adding new spells should be really easy
- Used tweening effects to make the enemies fade out, and to animate the mana bar
- Mana bar displays how much mana was used in a short amount of time
- Added alternative controls for players using a trackpad instead of a mouse
- Worked hard on that title screen!

### Resources

### **Tutorials and examples:**

http://phaser.io/examples/v2/camera/deadzone

http://phaser.io/examples/v2/games/tanks

https://github.com/BdR76/phaseranimals/blob/master/grouptest.js

### **Images**

Wizard by Xarius, available under CC-BY-3.0

Magic dart by chabull, available under CC-BY-3.0. Modified by adding colors and pasting into a spritesheet.

Mana pickup by <u>Tatermand</u>, available under <u>CC0</u>. Modified by adding different brightness levels and rotations.

Slime by Stephen Challener (Redshrike), available under CC-BY-3.0, hosted by

OpenGameArt.org

Grass background by surfacecurve, available under CCO

Heart by shinzohotoroki, available under CC0

Mana bar by Scrittl, available under CC-BY-3.0

Book background by yd, available under CC0

### **Fonts**

Gondola SD by Steve Deffeyes
Gothic Ultra OT by Blue Vinyl Fonts

### **Background music**

The Realm of Battle (Conquer), The Realm of Battle (Regret) and Spanish Theme (Classic Fantasy Music Pack) © 2014 Murray Atkinson

#### Sound effects

Magic dart sound by spookymodem, available under CC-BY-3.0

Mind blast sound by Little Robot Sound Factory, available under CC-BY-3.0

Mana pickup sound by Écrivain, available under CC0

Monster death by qubodup, available under CC0

Magic failure by Tuomo Untinen, available under CC-BY-3.0

Damage sound by artisticdude, available under CC0

### **Grade**

As self-serving as it might sound, I honestly give myself an A on this. I worked really hard on this project and paid special attention to details like the mana bar animation, giving the player feedback on how much mana their spells spend, and I tried to design the code so that it could be easily extensible to add more spells. Some of the code (pickups and enemies) is still a little messy from when I was learning Phaser, and if I had the time I would rework the enemy class so that it's like the spells and allows for new types of enemies to be easily created.