# **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 gameplay screen. I had title and gameover songs picked out too, but didn't have time to rework my pause system so that they could actually play (since the Phaser pause stops everything, including music).
- 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.

<u>Slime</u> by <u>Stephen Challener (Redshrike)</u>, available under <u>CC-BY-3.0</u>, 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.