

Design Document

Theme

Bounce

Concept

You're a miner who goes down floors of a mine.

As you make your way through these floors you try to collect as much ore as you can.

However staying on one floor for too long can be dangerous due to the monsters that accumulate overtime.

It's all about balancing risk vs reward to get the most out of your descent.

Each floor is randomly generated with an entrance, exit, ores, and monsters.

The longer you stay in a floor the more monsters will spawn.

Encouraging you to move quickly and choose your moves carefully.

The game is turn-based meaning that every entity moves or attacks at the same time.

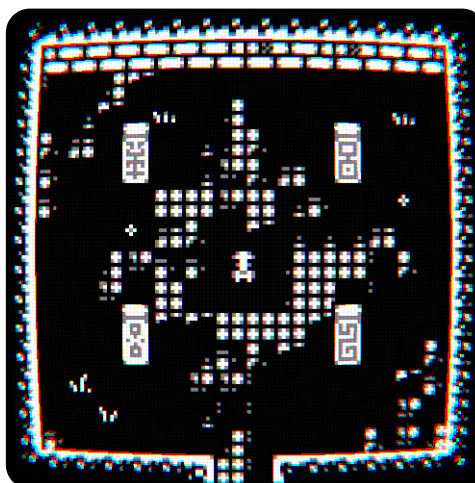
A turn only happens if the player moves, or performs an action. (like attacking)

Attacking an enemy causes them to bounce back, messing with the order which causes you to get hit if you move towards the enemy again.

And you cannot just wait for the enemy to move towards you, so now you are motivated to perform an action to avoid being attacked.

Style

Old school 8-bit rogue-like art style (Examples below)



MoSCoW

Must	Should	Could	Won't
Player Controller	Shops	More Floors	Online Multiplayer
Tilemap	More Ores		
Collisions	Floor Generation		
Enemies			
Inventory			
Mining			
User Interface			

MDA

Mechanics & Dynamics

Note:

```
{ name } { turns }
{ description }
Dynamic { description }
```

Turns

The game world uses turns, each turn ``ONE`` action can be performed.

(Turns are advanced by, walking, attacking, mining, or using an item)

Dynamic Adds a strategic element to the game.

Walking '1

The player can walk in the four cardinal directions. *(Using WASD)*

Dynamic Simple movement options within a complex environment.

Walls

The player cannot move through walls.

Dynamic Indicated by bumping off the wall when attempting to walk into it.

Fog of War

The player at first cannot see the whole level, it becomes visible as they explore.

Dynamic Adds more discovery and risk vs reward to the exploration.

Attacking '1

The player can attack an enemy by walking into them. *(Using WASD)*

Attacking an enemy will cause them to bounce away from you.

Dynamic Using the same controls for attacking.

Mining ^{'1}

The player can mine ores by walking into them. *(Using WASD)*

Dynamic Using the same controls for mining.

Enemies

Once enemies see the player they move towards them and try to attack them.

(Enemies attack after being attacked, e.g. killing an enemy in one hit means you don't take damage)

(Enemies move after the player, so when moving into the same location the player moves)

Dynamic This attack delay means that timing is key when trying to avoid damage.

Pickups

After being mined ores can be picked up by walking on top of them.

Dynamic Showing a clear indicator that the ore has been picked up.

Shops

The player can buy items from shops using the ores they've mined.

(Shops appear inbetween floors inside of a safe area)

Dynamic The player can decide how to spend their resources or save them.

Aesthetics

Challenge & **Discovery**

Tools & Resources

- Visual Studio C++
- BUAS Template Engine
- Aseprite