



# No Time to Mine

Handover Presentation

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# Idea & Inspiration



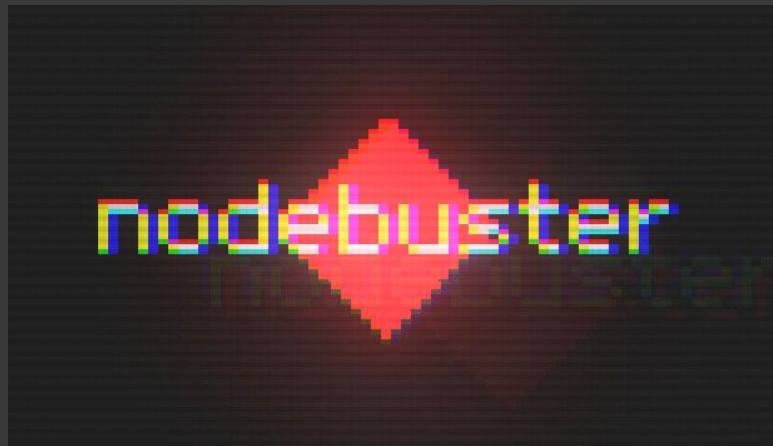
# Motivation & Constraints

- Limited Timeframe (one Semester) -> limited Scope
- Catching up the progress the others made in Wintersemester
- Accessible for players of all levels
- Coherent & Complete Experience

# Inspiration

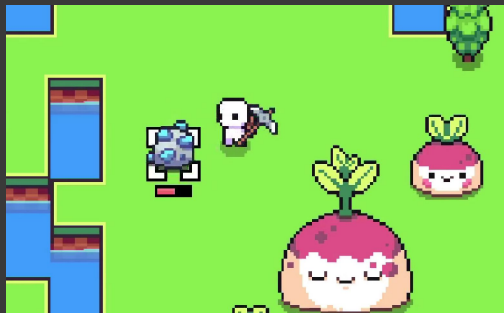
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What games do i like, that are and realistic to implement given the time?



# Idea

Combine the compelling elements of each game:

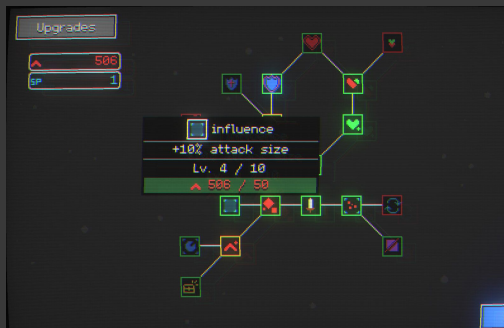


Forager:

- Mining, resource collection
- Simple cute artstyle

Nodebuster:

- Skill tree
- Limited life cycle



Similar characteristics:

- Thrilling exponential growth
- Upgrading the resource collection process

# **“finite life cycles with iteratively increasing progress”**

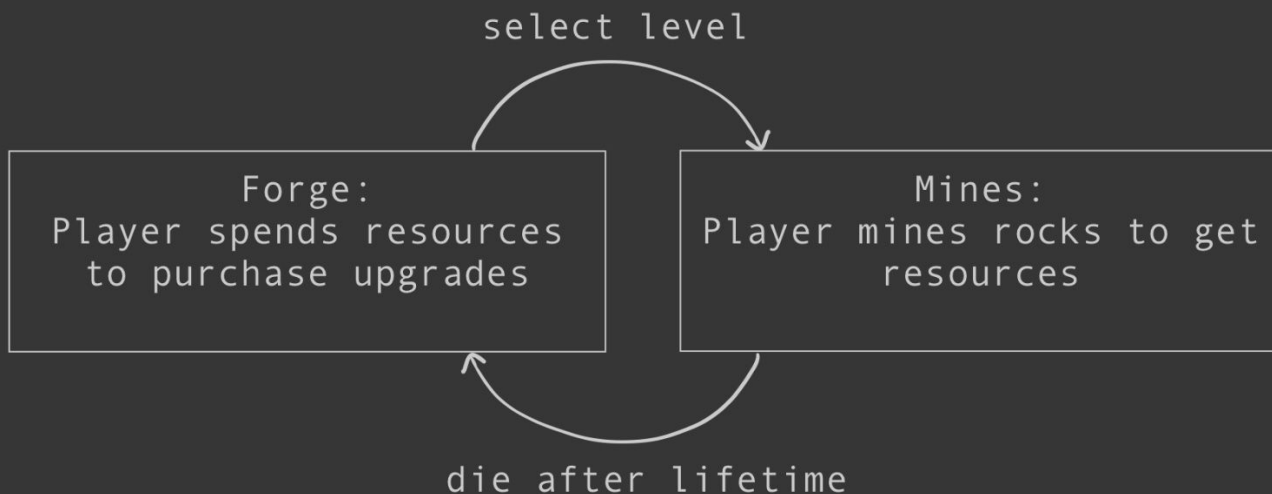
Initial formulation of unique selling point

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Core mechanics being: Mining, Resource Collection, Upgrading

# Identification of main game loop

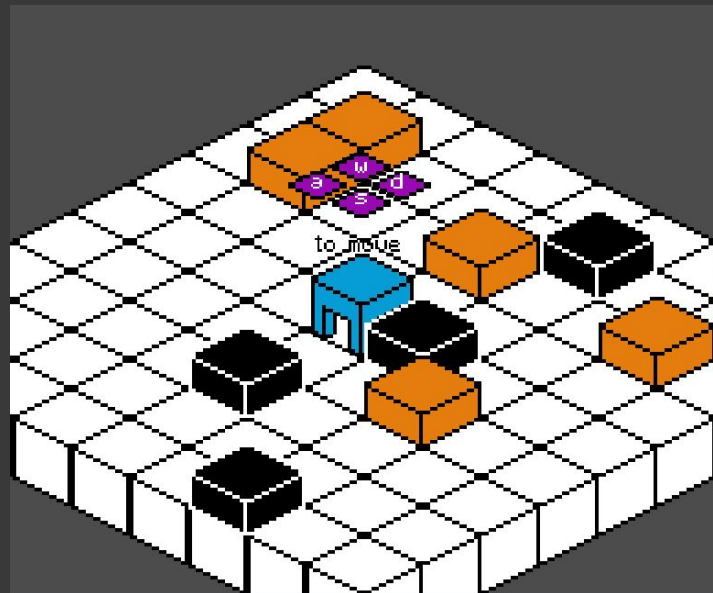
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First priority: Implementing and refine this loop

# Implementation as Whitebox Environment

Early draft with  
placeholder art

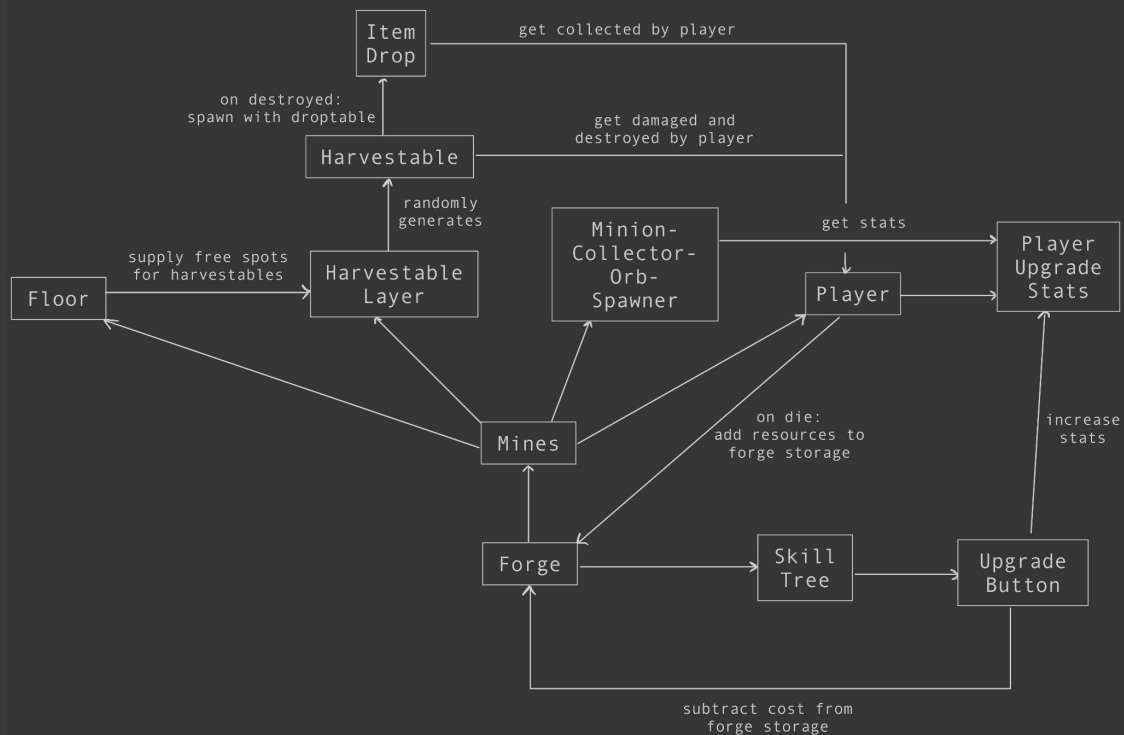




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# Implementation Architecture

# Main Loop



# Important Classes

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## Player:

- handles movement / controls
- handles which harvestable is targeted
- applies damage to harvestables
- collects items, adds them to inventory / forge when dying
- influences main loop control flow when dying
- animates appearance

## Forge:

- handles savestate
- populates loaded savestate
- handles control flow of main loop
- acts as **monolithic singleton**, most other classes are coupled to it
- handles own appearance

## UpgradeButton:

- updates upgrade stats
- handles visibility of children and info label
- calculates and applies cost and stat increase
- handles own appearance

**Problem:** Some classes do way to much, should be refactored

# Things done well in implementation

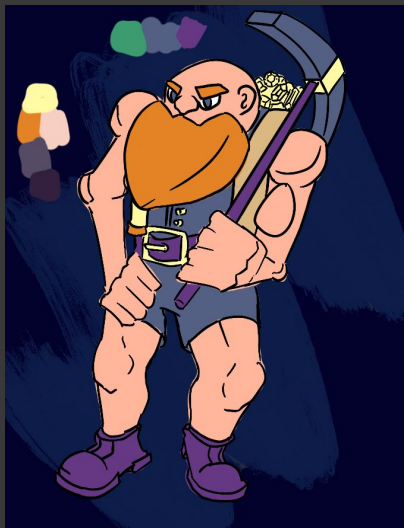
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- Reusing code though composition:
  - ButtonAnimationWrapper
  - GridVectorToPositionConverter
  - GuiItemListDisplayer
- Using utility scripts e.g. build, selfmade recolor pipeline:
  - RecolorMultiple
  - ImageRecolorer
- Using godot resources, as more modular alternative to monolithic singleton:
  - TypePopulator
- Using godot callables, e.g.:
  - TimeoutCallback
  - upgrade button strategy pattern
  - ScreenTranisiton

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# Visuals

# Working out the visuals: Setting



First concept art



Deciding character  
should be rocky



Early draft of  
lore/backstory

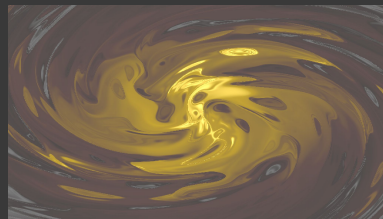
Conclusion Setting mines, keep it simple (remember scope)

# Working out the visuals: Sprites

Choosing a color palette from lospec:



First choice (Oil 6)  
Went with rust gold 8,  
fits setting



Used balatro shader code  
for background, worked  
well with palette



First draft of sprites



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# Refining main loop



# Improving audiovisual feedback

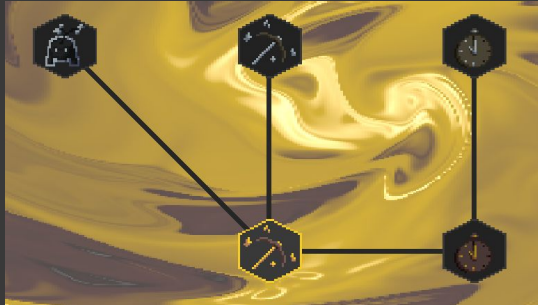
- Self made sound effects with mic borrowed from hci and audacity
- Animations, Particles, screenshake, camera lerp
- Shader effects



GODOT TUTORIAL: Shockwave shader for noobs

# Adding a “goal” / progression

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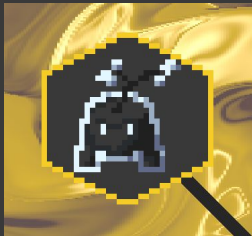
## Level System

- Add levels with different materials
- Respective layers on skill tree for level
- Each having same sprites recolored
- Level unlocked by harvesting all rocks on a level
- After clearing a level, you can replay it it being bigger -> thrilling exponential growth

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**Putting in content**

# Coming up with upgrades



Minion:  
help player mining



Orb:  
bouncing around  
damaging rocks



Collector:  
collect items

And respective upgrades  
for stats of them  
(damage, speed, ...)

# Defining content scope

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- Adding in a story, reusing assets
- “Source” at start and end of game
- Last level unlocked after 6 levels
- Expanding the skilltree to 6 levels



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**Final Touches,  
Preparing for  
expo / release**

# Music by Drusba

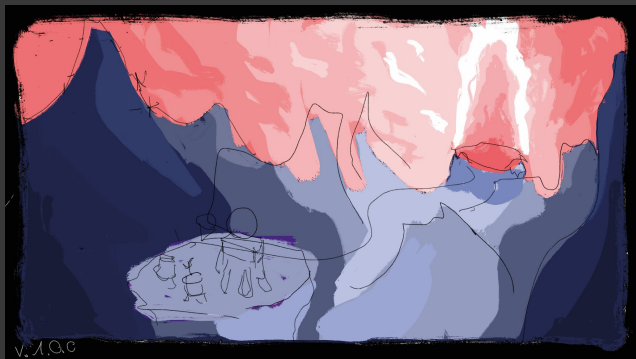
Adding in music massively changed the vibe of the game

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Did the music with a homie using samples from splice

# Titlescreen

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First Draft (incomplete)



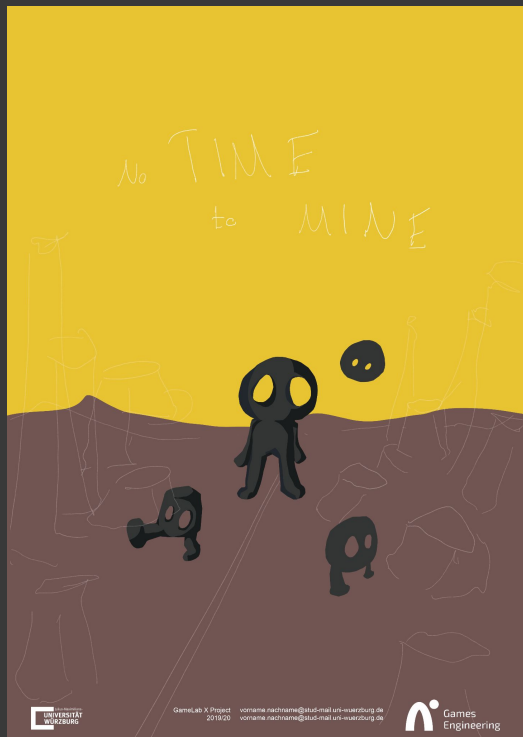
work in progress



final version



# Poster



First draft (incomplete)



Draft for presentation



Final Version

# Trailer

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<https://youtu.be/rBGoRgpmopY?si=BEkYJN9gjaSZk-IW>

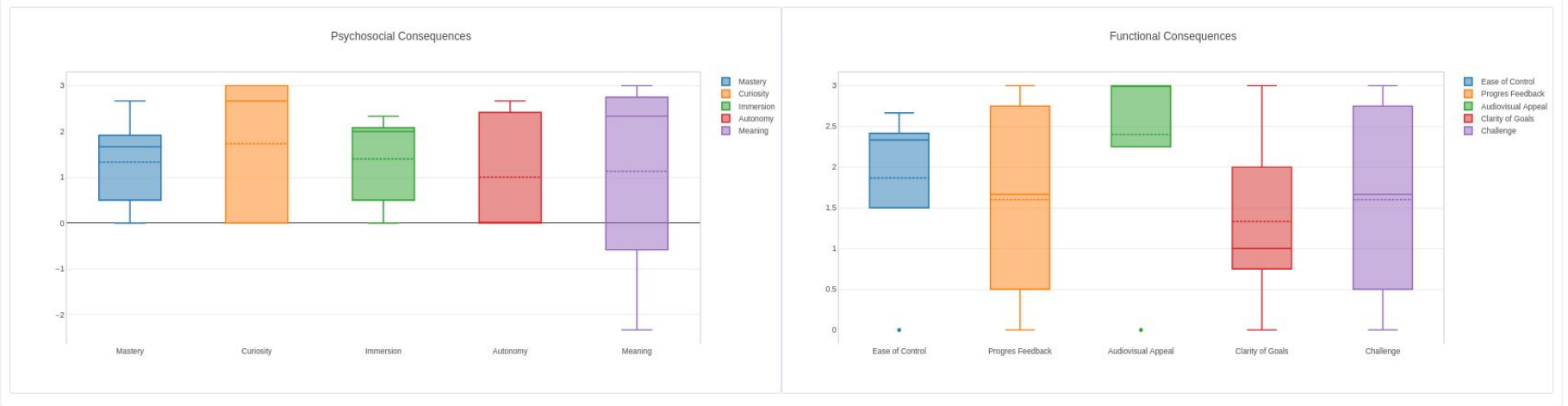
# Player feedback

Setup a playtester feedback survey and generated statistics (sample size 4)

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# Player Feedback

Constructs Data



Strengths: audiovisual appeal, curiosity, accessibility(ease of control)

Weakness: meaning, clarity of goal

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# Thanks!

Find this and my other  
projects at:

[hiqqup.itch.io](https://hiqqup.itch.io)

