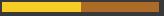


No Time to Mine

Handover Presentation

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

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



Idea

Combine the compelling elements of each game:

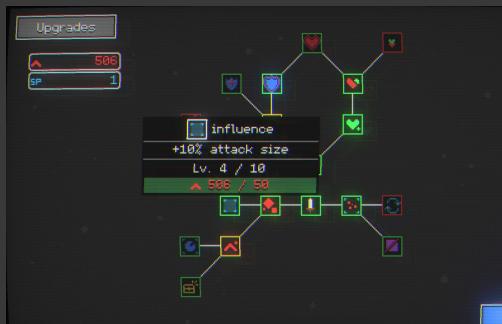


Forager:

- Mining, resource collection
- Simple cute artstyle

Nodebuster:

- Skill tree
- Limited life cycle



Similar characteristics:

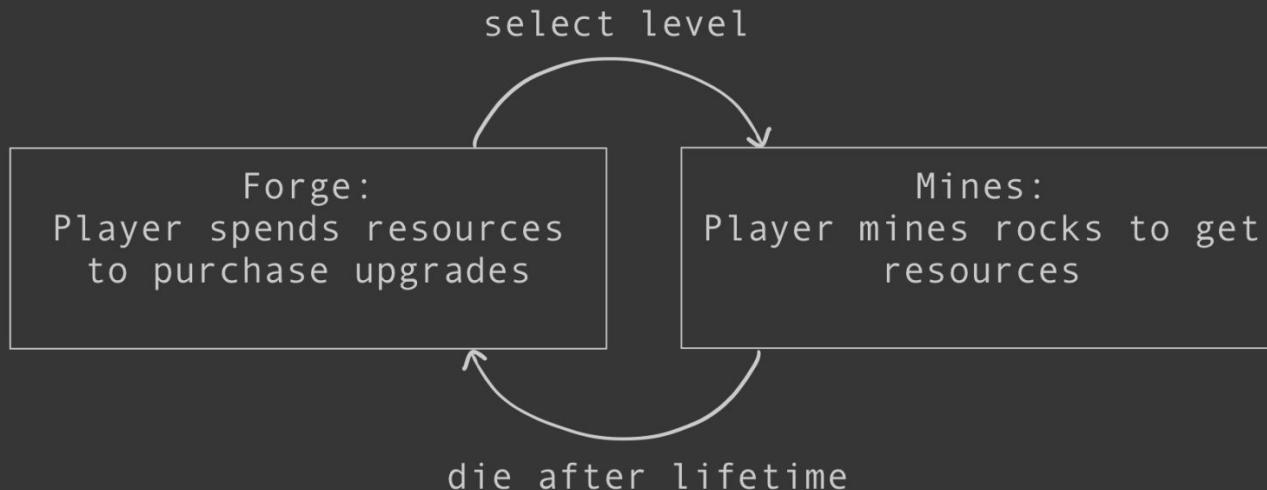
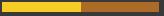
- Thrilling exponential growth
- Upgrading the resource collection process

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

Initial formulation of unique selling point

Core mechanics being: Mining, Resource Collection, Upgrading

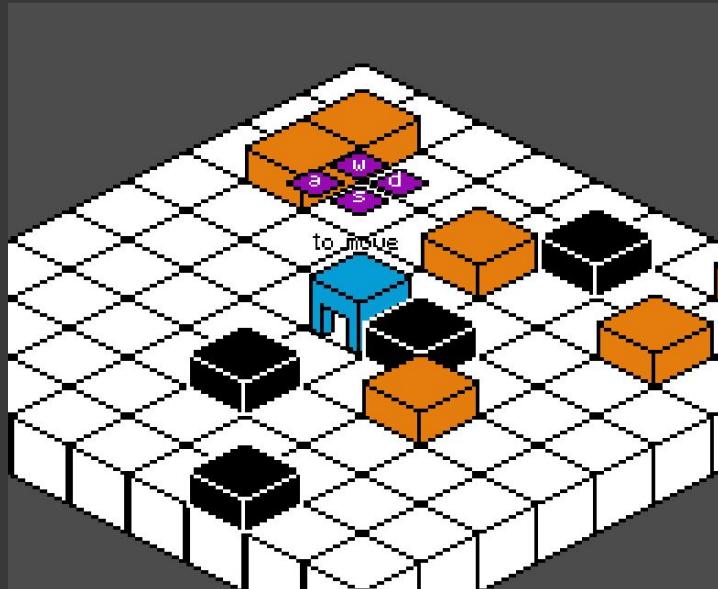
Identification of main game loop



First priority: Implementing and refine this loop

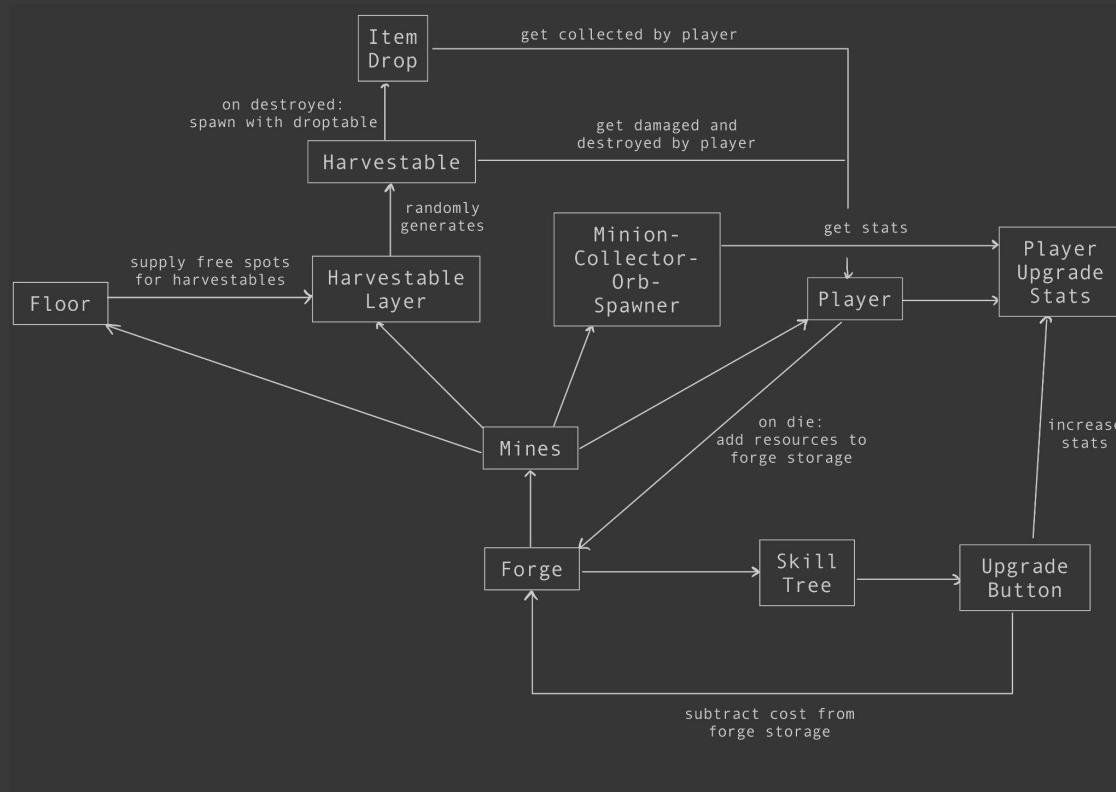
Implementation as Whitebox Environment

Early draft with
placeholder art



Implementation Architecture

Main Loop



Important Classes

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

- Reusing code through 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
 - ScreenTransisiton

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)

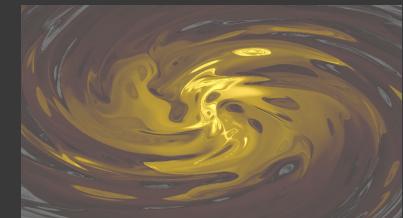
Working out the visuals: Sprites



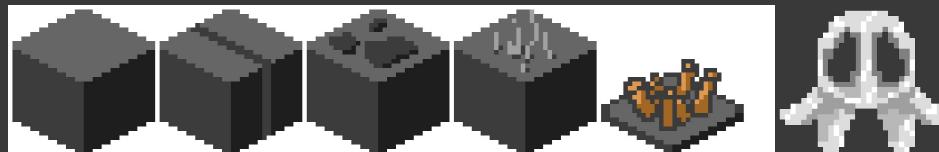
Choosing a color palette from lospec:



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



Refining main loop

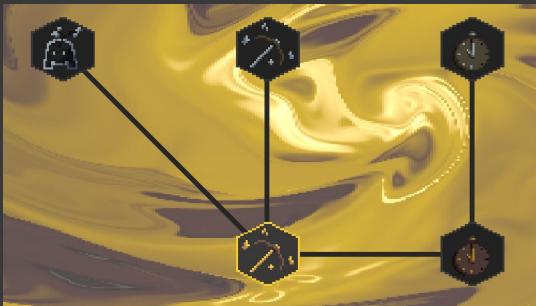
Improving audiovisual feedback

- 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



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

Putting in content

Coming up with upgrades



Minion:
help player mining



Orb:
bouncing around
damaging rocks

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



Collector:
collect items

Defining content scope



- 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



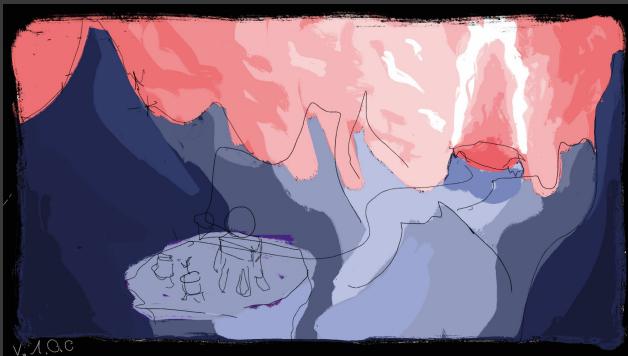
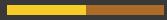
**Final Touches,
Preparing for
expo / release**

Music by Drusba

Adding in music massively changed the vibe of the game

Did the music with a homie using samples from splice

Titlescreen



First Draft (incomplete)



work in progress

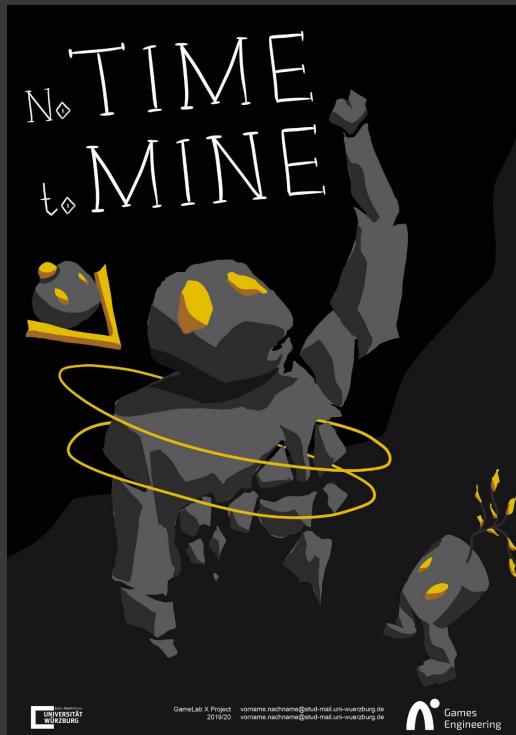


final version

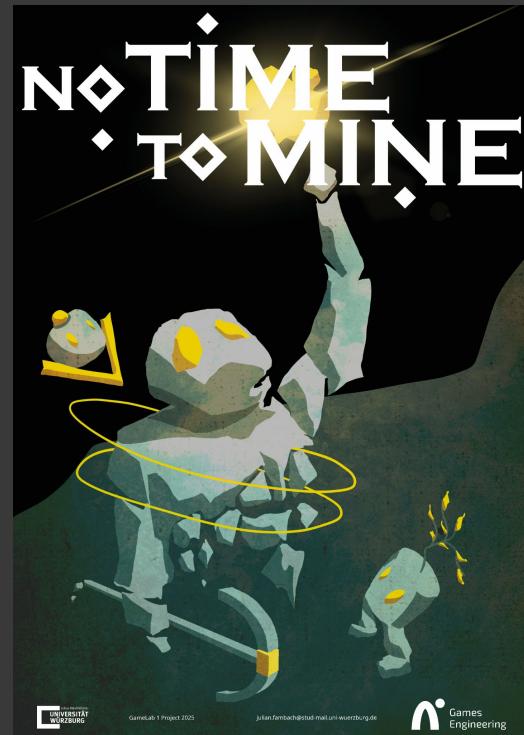
Poster



First draft (incomplete)



Draft for presentation



Final Version

Trailer

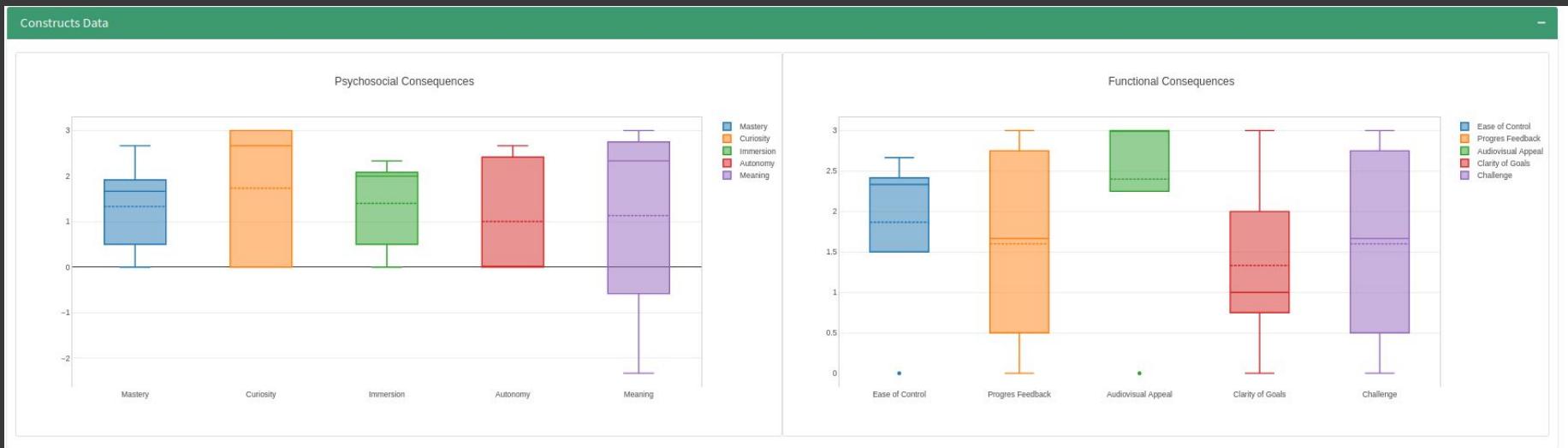


<https://youtu.be/rBGoRgpmopY?si=BEkYJN9gjaSZk-IW>

Player feedback

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

Player Feedback



Strengths: audiovisual appeal, curiosity, accessibility(ease of control)
Weakness: meaning, clarity of goal

Thanks!

Find this and my other
projects at:

hiqqup.itch.io

