# Rapid prototyping

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#### This lecture

- 1. Introduction to Rapid Prototyping
- 2. The Prototyping Process
- 3. Tools and Technologies
- 4. User Experience (UX) Considerations
- 5. Failure and Learning
- 6. Scope Management
- 7. Team Collaboration
- 8. Documentation



#### Who am I?



Anna Högberg Jenelius

any pronouns
Indie Game Developer/Consultant
Games since 2011
Indie since 2015
Valiant Game Studio since 2017
Credit on 40+ titles

Based in Stockholm, Sweden























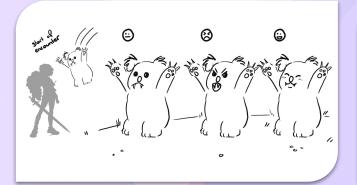
## What is rapid prototyping?

Rough sketch, first draft

Fast ideation

Trial and error

Build something quick, learn from it







## Game jam games = prototypes



#### Why is it important?

Game development is expensive

Cheap way to try ideas

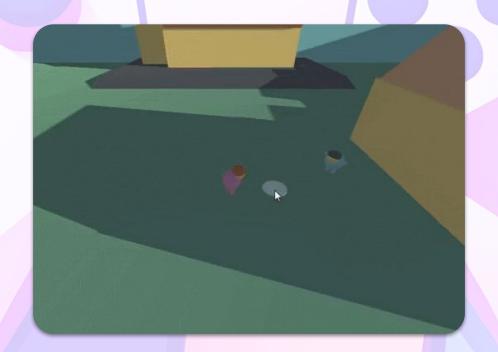
Fail fast

Kill your darlings

Listen to the facts



## **Example: Pendula Swing**



## **Example: Pendula Swing**



#### The Process - Idea generation

**Brainstorm** 

Never say no

"Yes, and"

Let the inspiration flow!

Light topic research

Market research





#### The Process - Initial concept design

Focus on core concepts

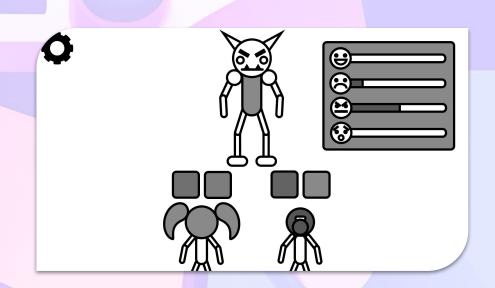
MVP = Minimum Viable Product

MLG = Minimum Lovable Game

What is this for your game?

What will make people "get it"?

Mockups, storyboards, moodboards



#### **The Process - Paper prototyping**

Literal paper

Board game tokens

Play with each other

Try on friends

Gather feedback

Works better for some genres than others!



#### **The Process - Digital prototyping**

Implement feedback

Focus on the core

No fluff, no juice, no polish

A few, representative art pieces

Gameplay is king



#### **The Process - Iteration**

Test, test, test!

Change, change, change!

Nothing is sacred, kill quickly

Feel free to kill idea at any step!

Move on to the next idea



#### **The Process - Evaluate ideas**

What resonates with people?

What can you make?

What will give best ROI?



## Tools and technologies - Engines



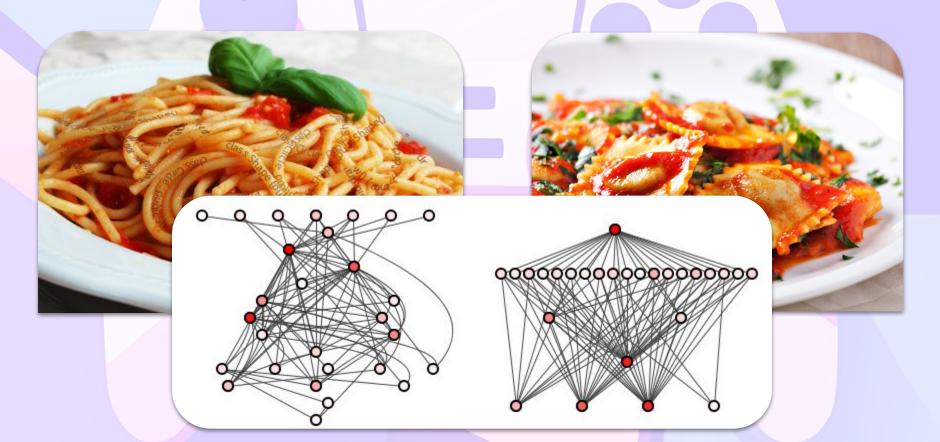






RABLOX

## Don't worry about code architecture



#### **Smoke and mirrors**

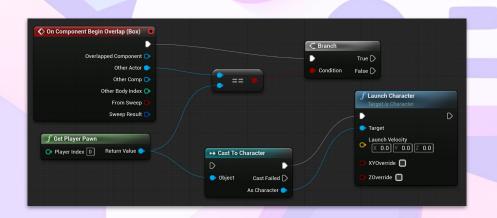
Hard code

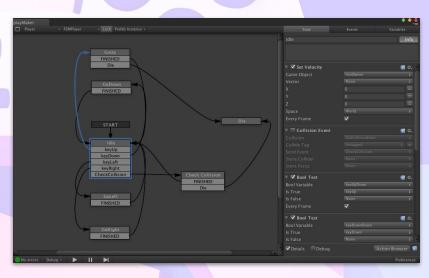
Script things that would be dynamic

Give a good experience - once!

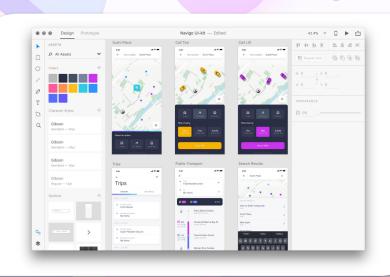


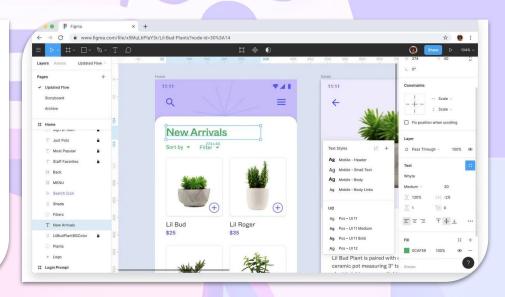
## Tools and technologies - Visual scripting





#### Tools and technologies - UI mockup tools





#### **UX** focus

UX = User Experience

There is no time for tutorials

The user needs to understand right away

Clear feedback systems, intuitive controls

Focus on the experience of the user!

User testing is key



## Failure and learning

"Fail fast"

It's not actually failure - you're learning

Your idea might be horrible or amazing - unless you try it, you will never know

You want to know this now, not when the game releases



## **Scope management**



Core Feature

Focus on this!



Nice-to-have



Fluff/Polish

## **Scope management**



If you want this



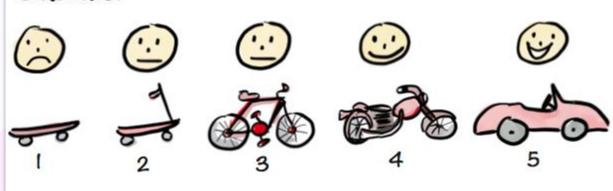
Start with this



Or you'll end up with this

# Not like this....

#### Like this!



#### How to build a restaurant like business with Minimal Viable Product



#### How to build a software product with Minimium Viable Product



#### **Team collaboration**

Clear roles in the team

Help and support each other

"Yes, and"

Communicate!



#### **Documentation**

Document the process:

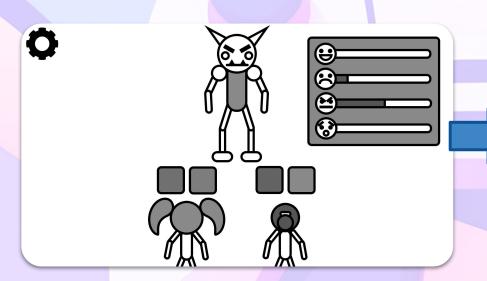
- Design decisions
- Iterations
- Lessons learned

Organize documentation

For posterity!

Save builds, make videos, take screenshots, photograph







(This level of detail is beyond the scope of this course)

#### Summary

Focus on the MVP

User-centric

Fail fast, and learn

Smoke & mirrors

"Yes, and"

Iterate

Take care of yourselves, and each other

Document



## Questions?

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