

## flame

the modular game engine

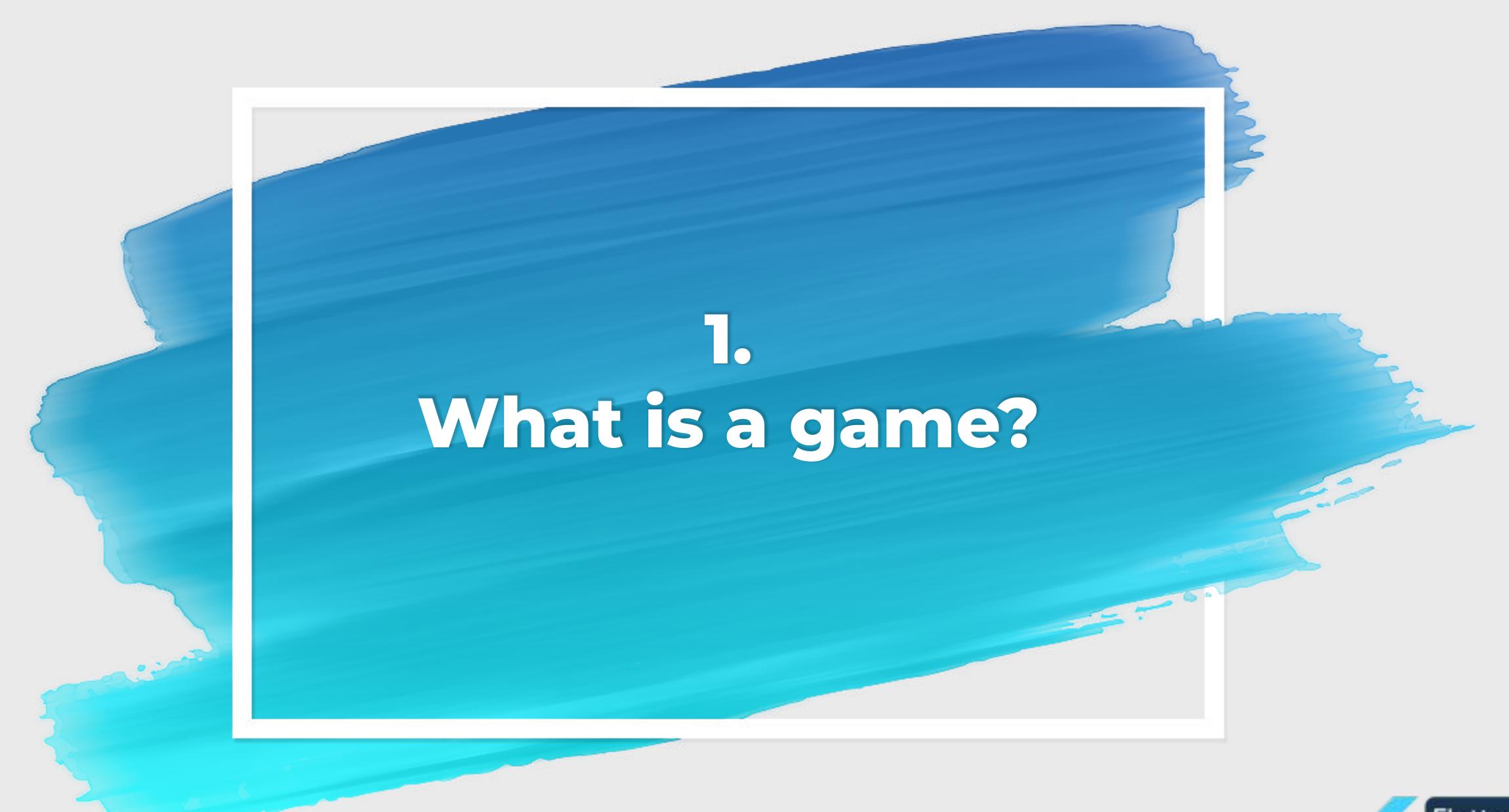
Flutter
Talks 2019

### Sobre o Palestrante

## Luan Nico

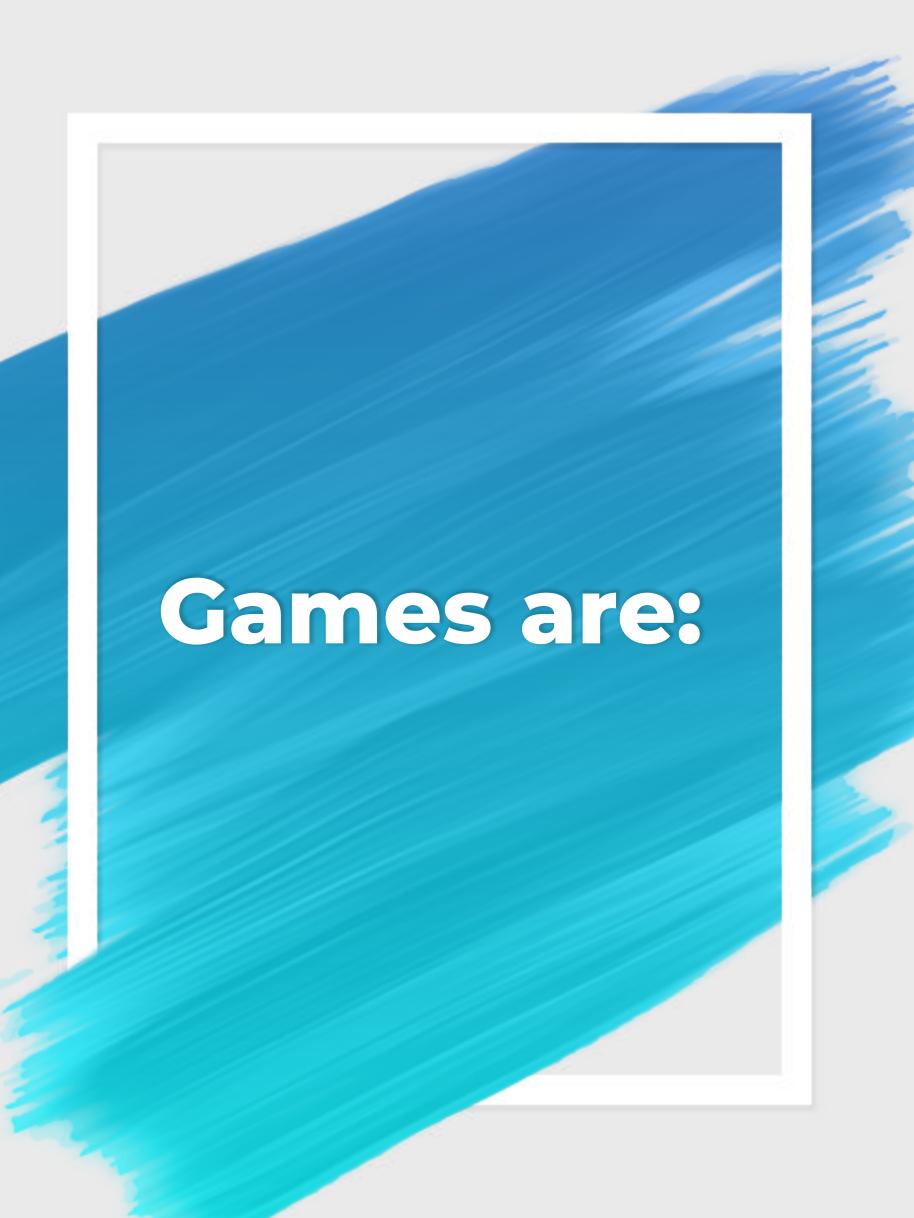
Software Craftsman | Physicist luan.xyz | github.com/luanpotter

dextra FAIRE







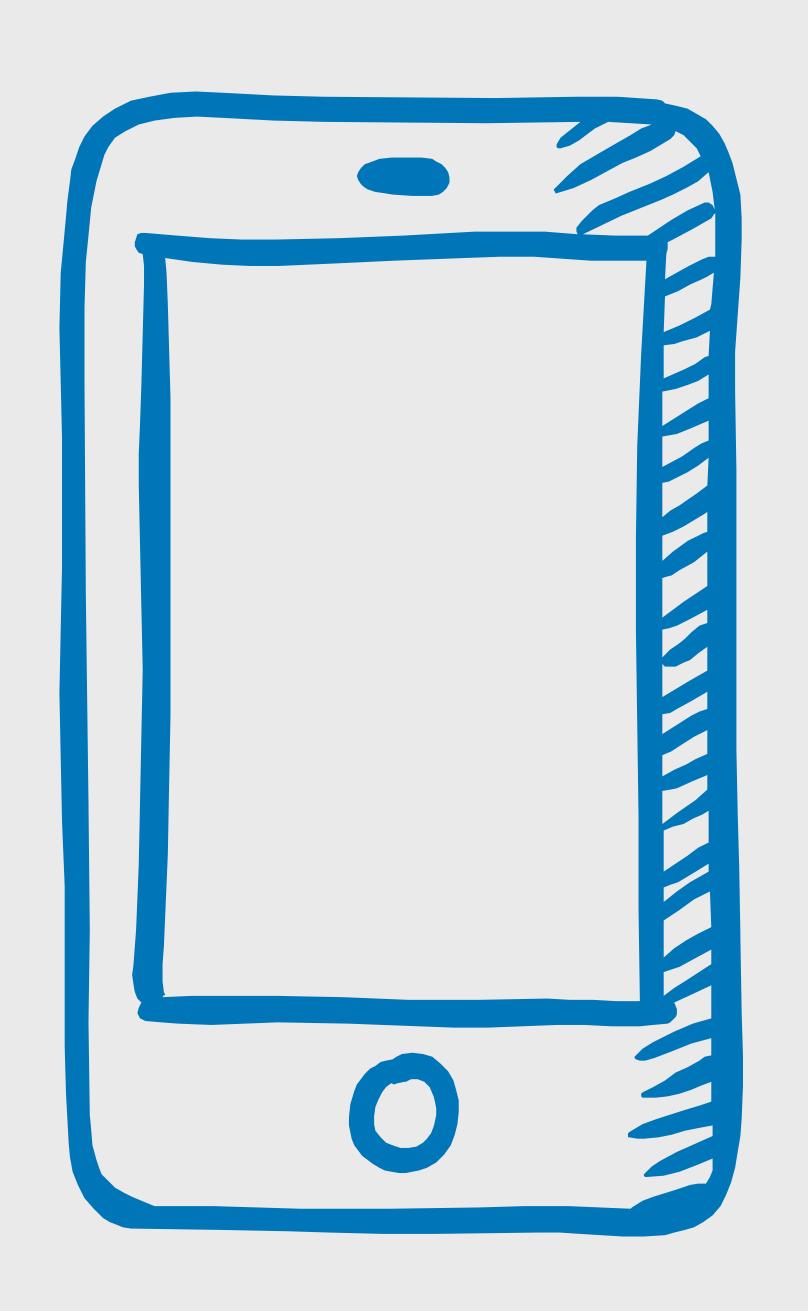


### Multimedia Interactive

- Graphics
- Audio
- Text

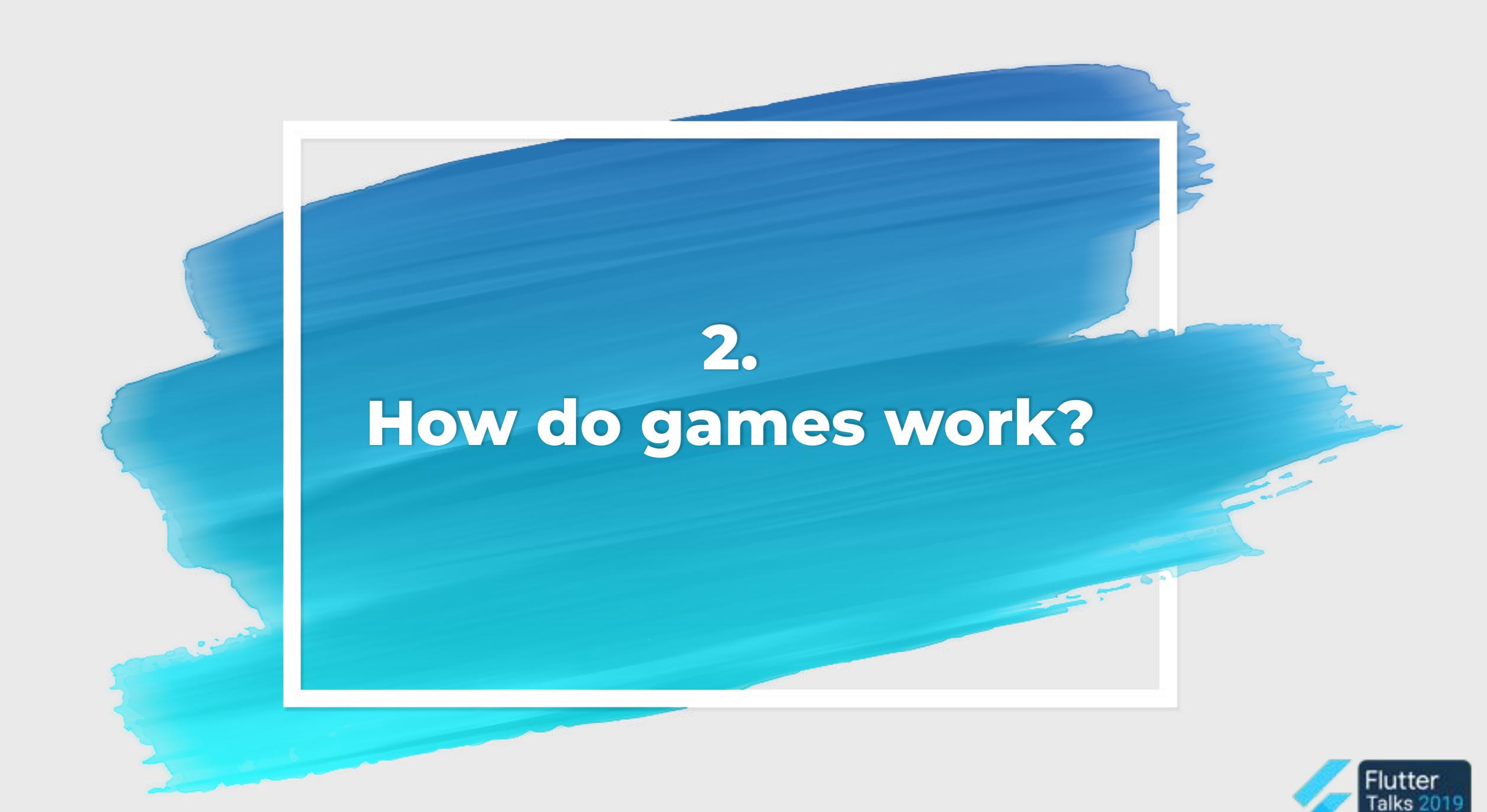
- Input
- Player
  - Agency





Note that regular apps might have some of those characteristics as well...











### UPDATE

(and input)





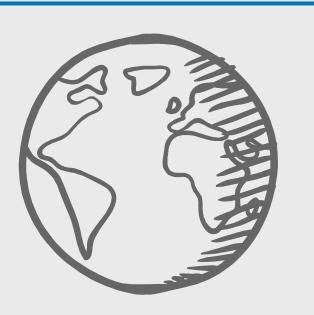


Direct Low-Level
 Canvas Access

High Performance
 Animations







## Schedule Frame Callback

60 FPS updates



#### RenderBox

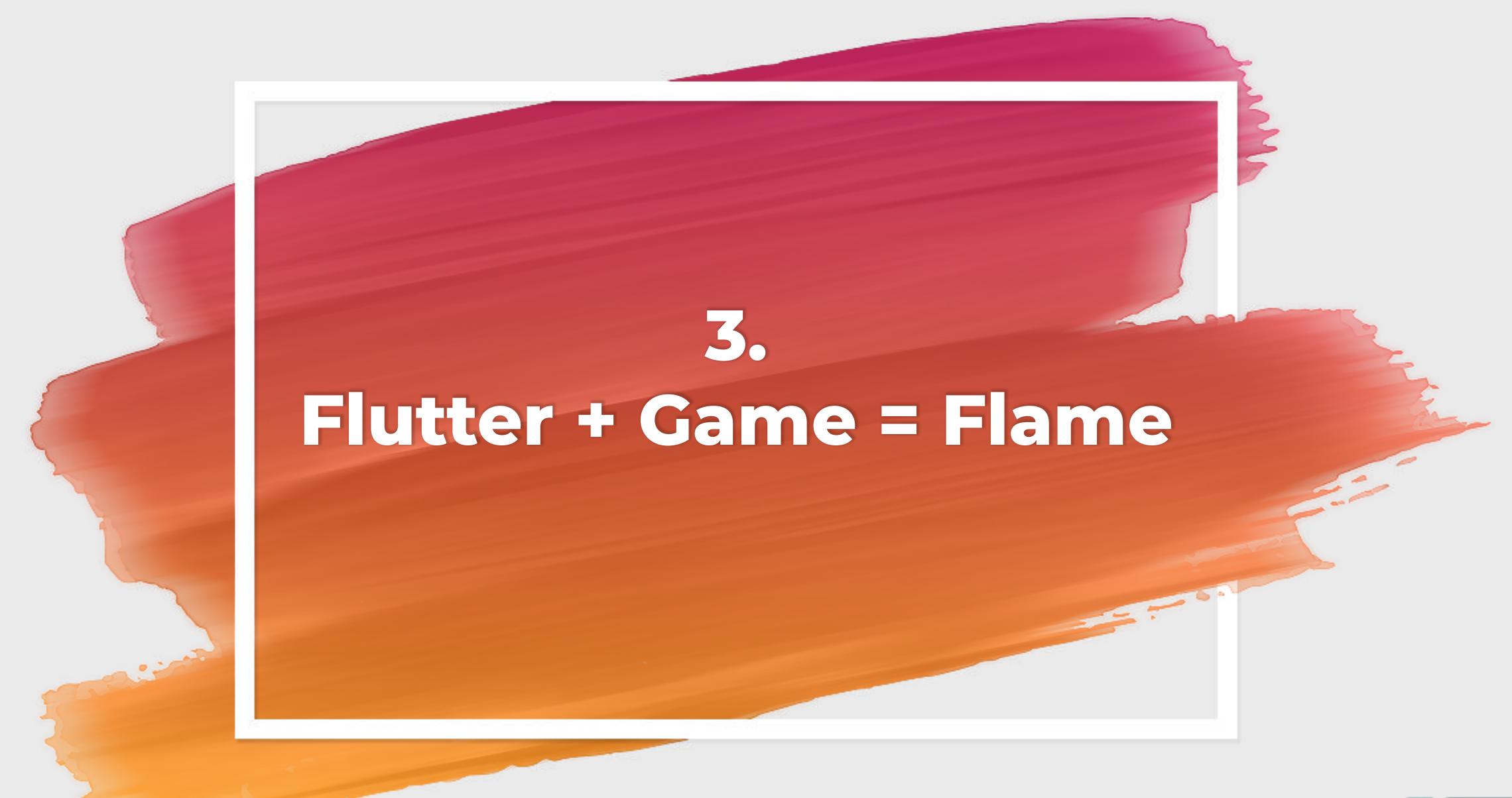
extendable widget

paint method





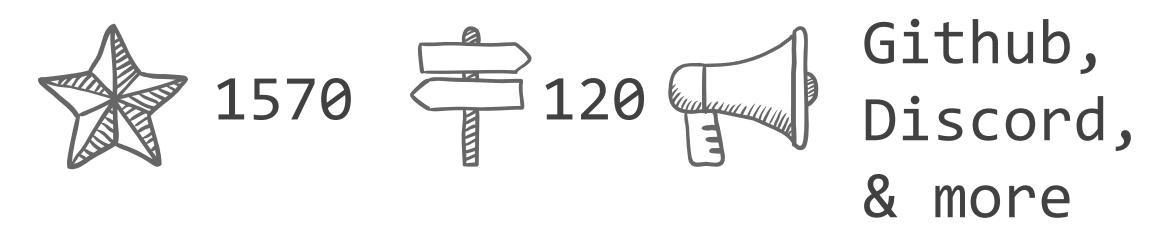






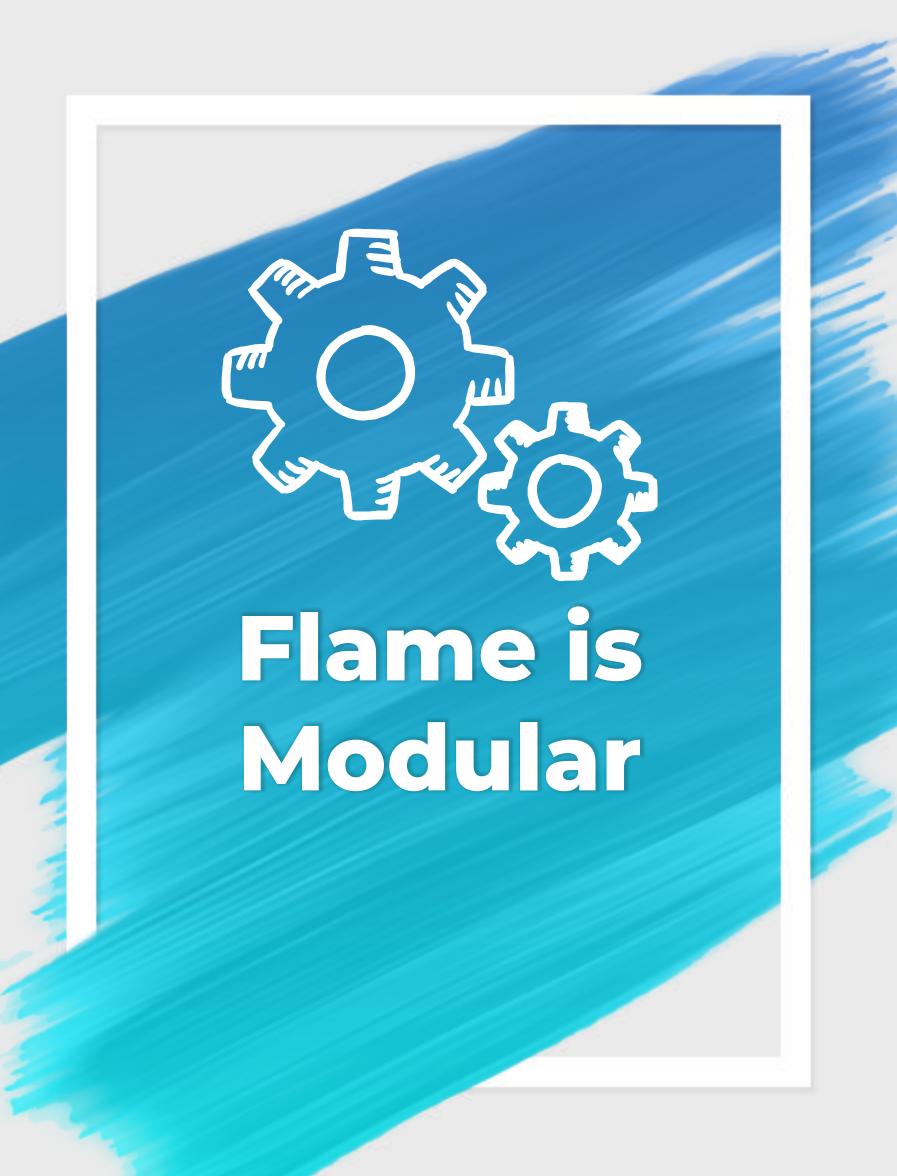


A minimalist Flutter game engine.



https://github.com/flame-engine/flame





	Game Loop	Sprites and Animations	Input Handling
	Component System	Audio Player	General Utilities







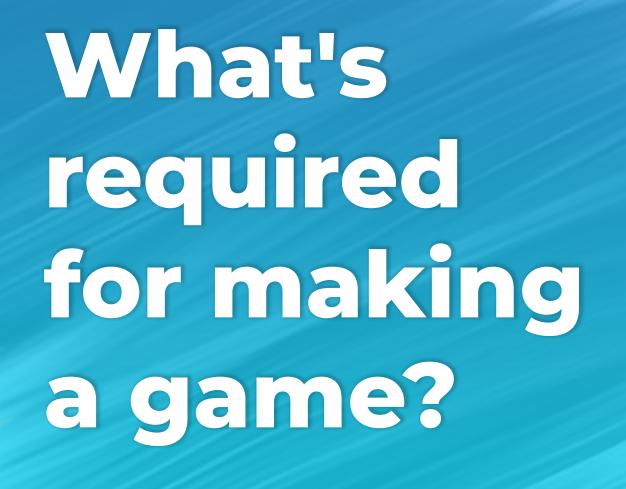






## GAMES ARE MORE THAN CODE!





Game Design

Level Design

Graphic Assets

Audio Assets

Fonts

PR & Marketing

Coding



# What's required for making a game?

Game Design

Level Design

Graphic Assets

Audio Assets

Fonts

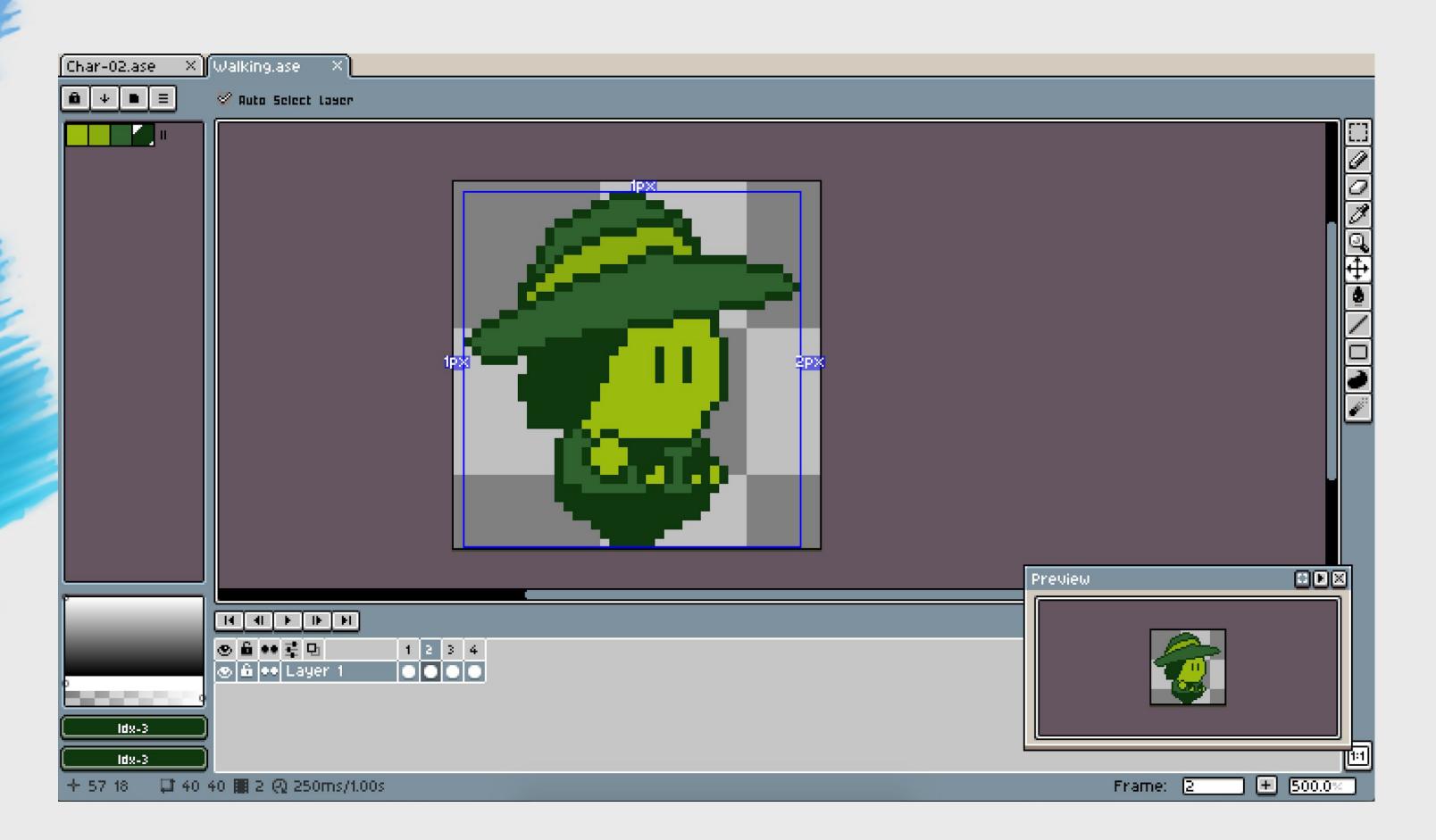
PR & Marketing

Coding

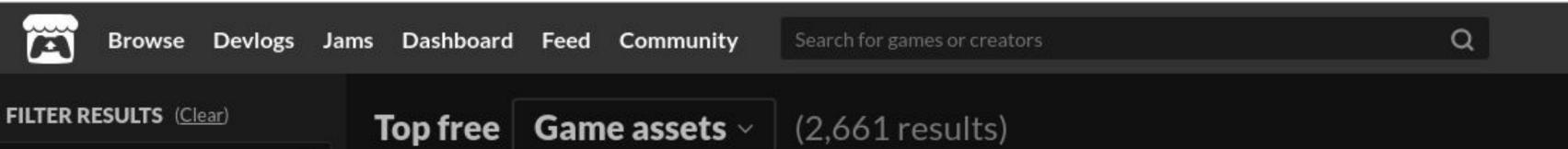
flame helps here

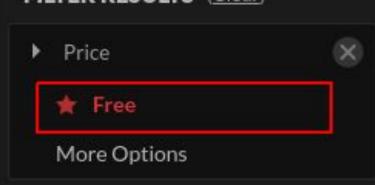












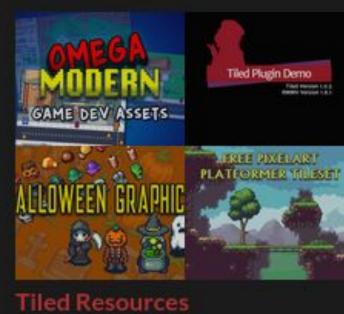
#### **RELATED COLLECTIONS**



All Assets Packs ansimuz



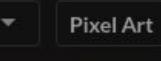
Assets and examples



New & Popular Top sellers Top rated Most Recent

Retro





16-bit

Fantasy

Tilemap based tools

Role Playing

Forest sprites

Adventure (View all tags)



Classic PDG Tilese

Classic RPG Tileset

Free forest themed set where human bei.. Jestan



Shadow Mines - Free 2D Game **Asset Pack** 

A free asset pack with 2D pixel art sprite... waxx



Jungle platformer assets

BigBuckBunny



SBH

Void



16x16 Dungeon Tileset

Free fantasy dungeon tileset (+character... Free 2 0x72



YellowAfterlife





16x16 DungeonTileset II

A free tileset + animated characters + w... Awesome pixel-art Jungle Asset Pack 0x72



Jungle Asset Pack

Jesse Munguia



2D Pixel Dungeon Asset Pack

16x16 pixel character and tileset Pixel\_Poem



**Skeleton Sprite Pack** 

Awesome Skeleton sprite pack (Idle, Rea... A Free Pixel Art Forest for you! Jesse Munguia



Free Pixel Art Forest

edermunizz











Sunny

2D Pla

ansimu

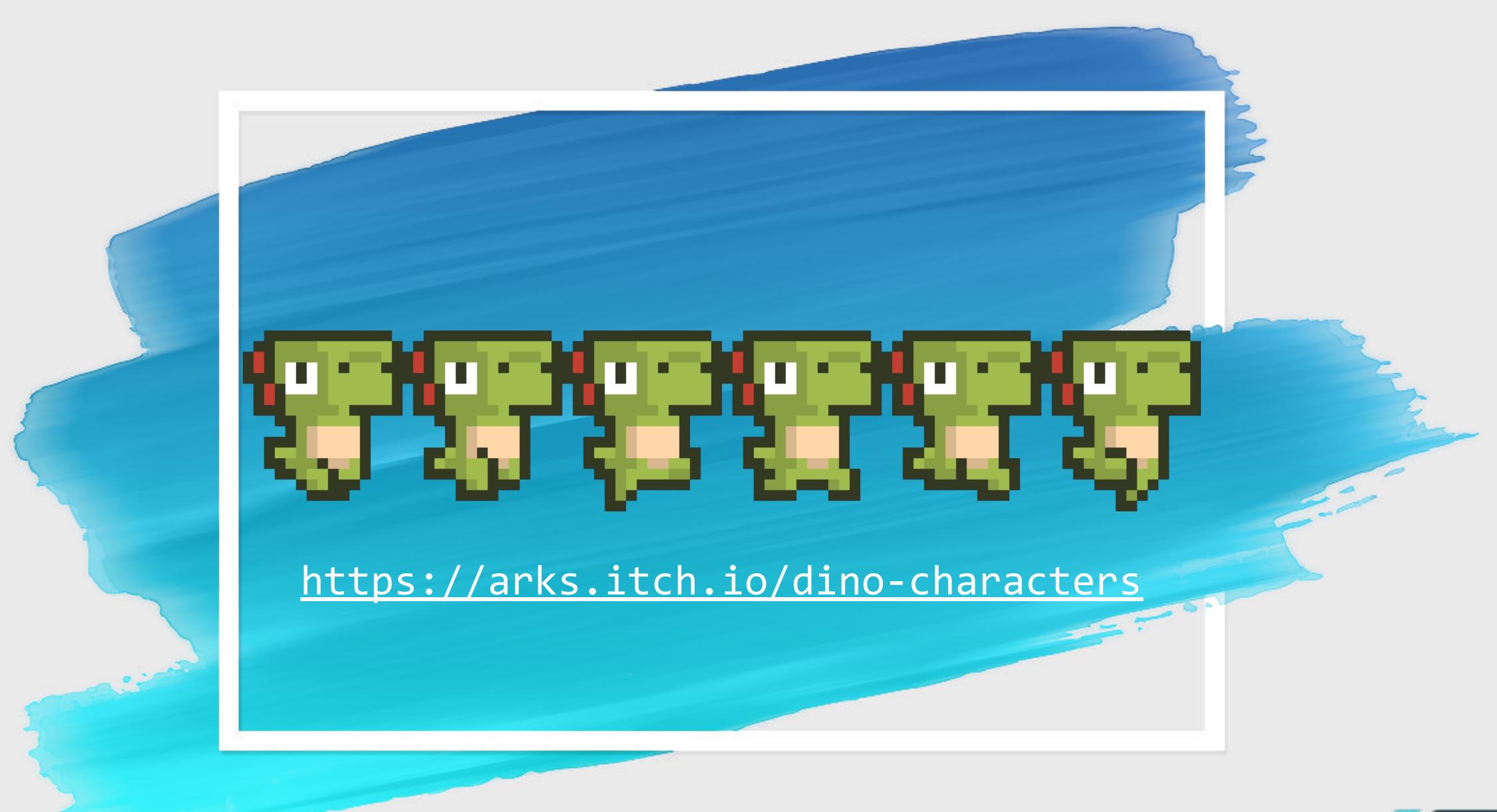
GIF

PIX

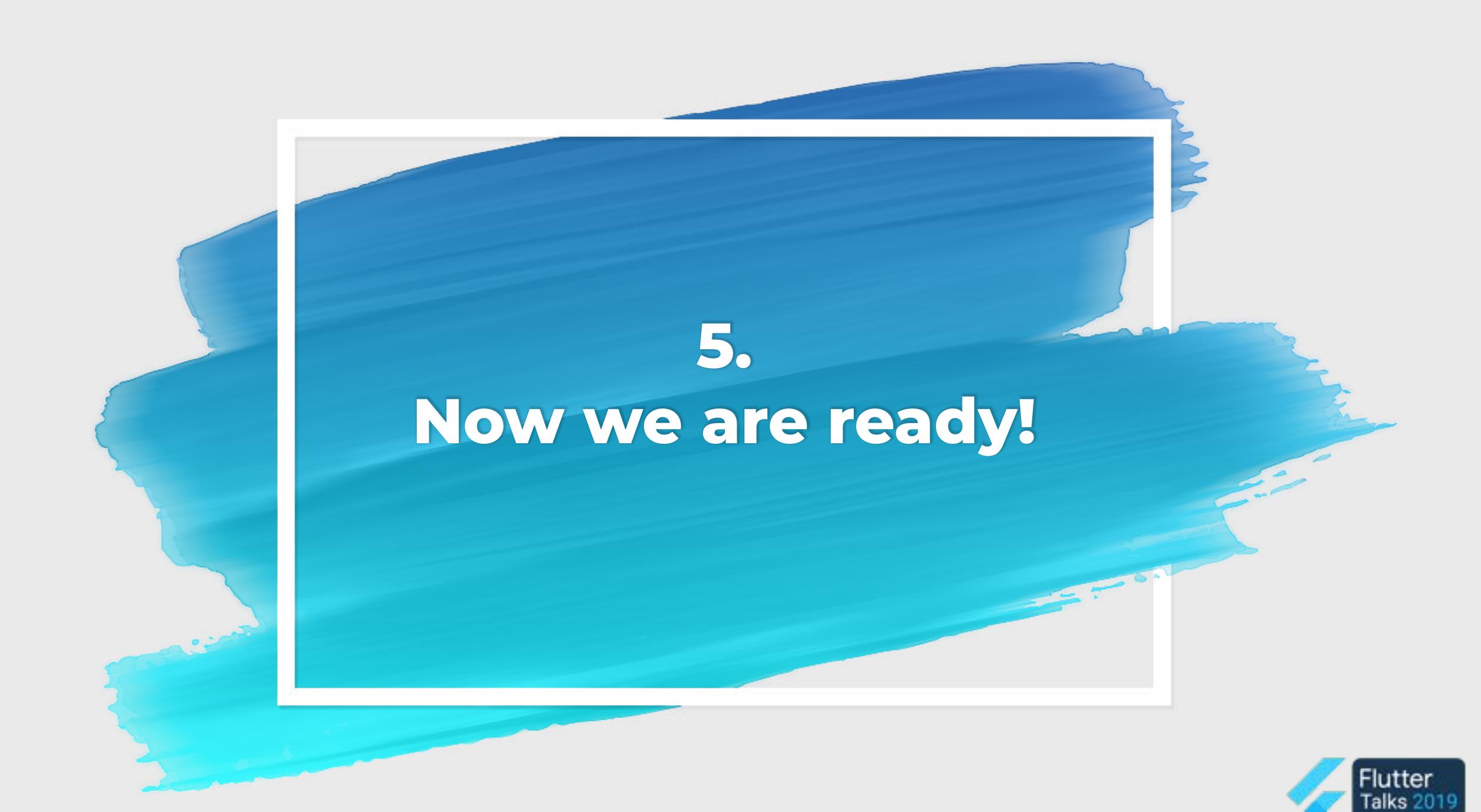
IDLE

Anim

rvros

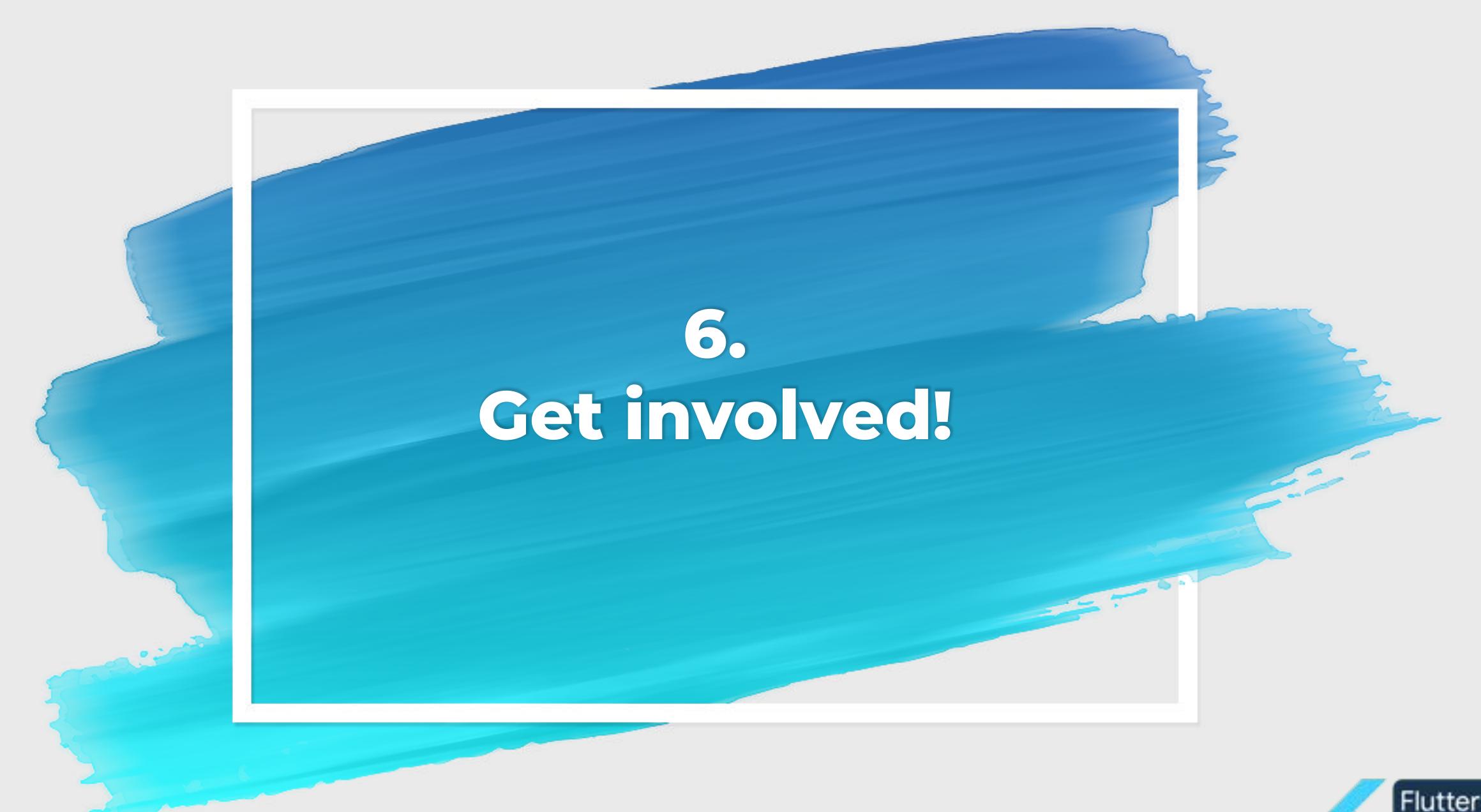








```
import 'package:flutter/foundation.dart' show
debugDefaultTargetPlatformOverride;
import 'package:flutter/material.dart' show TargetPlatform;
import './main.dart' as game;
main() {
 debugDefaultTargetPlatformOverride =
TargetPlatform.fuchsia;
 game.main();
```







Beginner Tutorials by Alekhin Flame inside regular apps

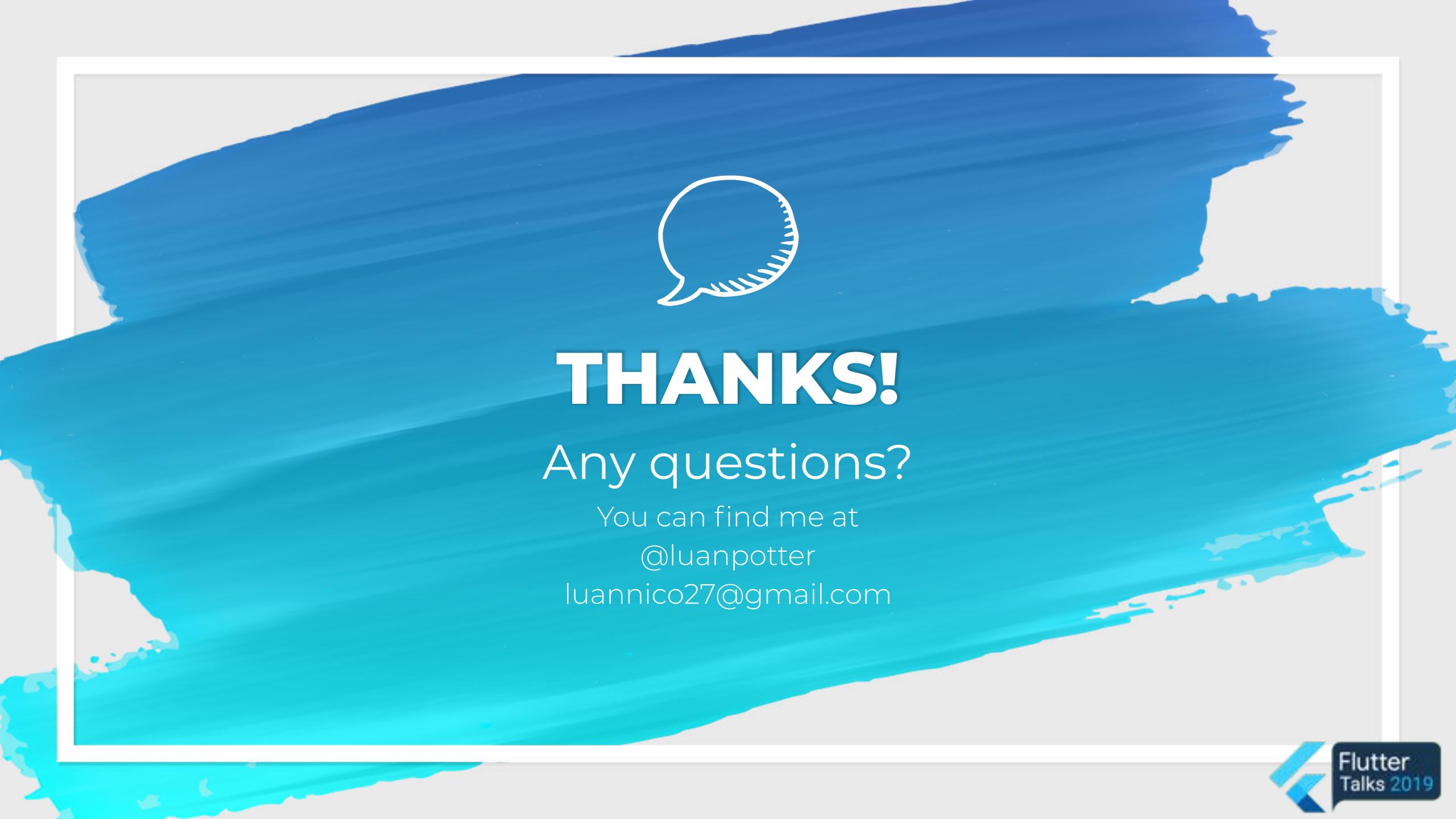
discord channel

github











Special thanks to everyone that helped create this presentation:

- Presentation template by SlidesCarnival
- Fonts: Montserrat
- Photographs by <u>Unsplash</u>, including:
  - Watch by <u>Shane Aldendorff</u>
  - Typewriter by <u>Camille Orgel</u>
  - Et al.
- http://blog.apbbuilders.com/builders-work-in-progress
- Game Assets by <u>Arks on Itch</u>
- Invaluable help from Erick and Renan
- Everyone at the community helping flame!

