Tooling for Game Art Generation with Al

Business Finland funded project for digitalization of the creative industry.





Project Background

Why?

Faster prototyping ⇒ more market testing ⇒ <u>higher success probability</u>

What?

• Tool to prototype **game visuals in minutes**, vs. weeks

How?

Integrate <u>art Al services</u> into Cosmic Lounge's <u>Puzzle Engine</u>



Cosmic Lounge

- Mobile puzzle games developer
- Founded 2022
- €4.5MEUR VC funding
- €100k Business Finland grants
- 20 employees in Helsinki/Oulu
- In-house AI powered technology

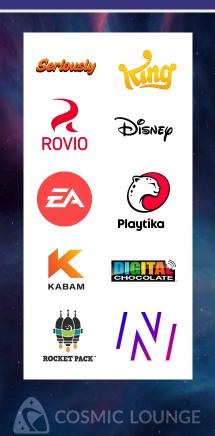


COSMIC LOUNGE

Crafting Stellar Puzzle
Games



Cosmic Lounge Founders













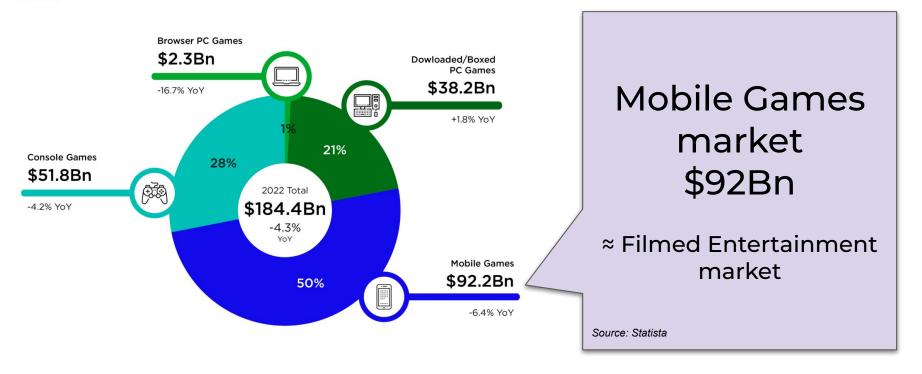
Average of 10 years in mobile games industry.

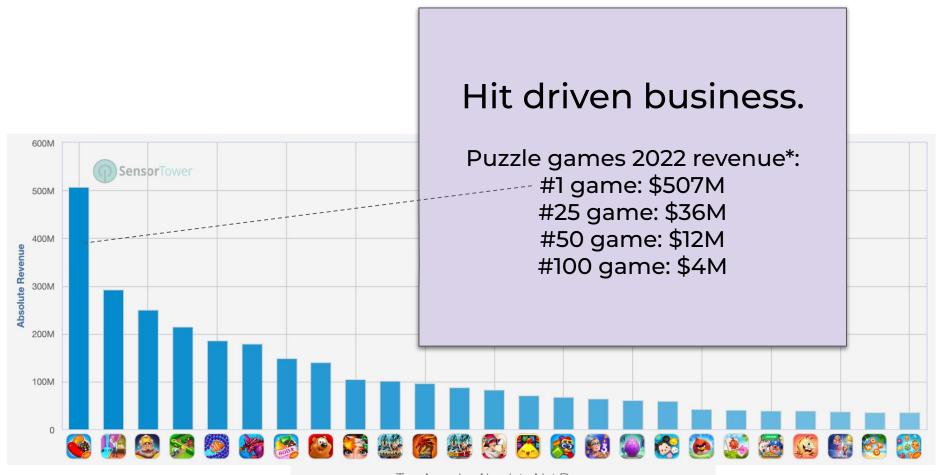
Worked on several Top 50 games.



2022 Global Games Market

Per Segment With Year-on-Year Growth Rates





Game idea's hit potential can be tested with prototypes, but

Building market testable prototypes is slow.

Just the art creation for a new game idea prototype can take several weeks.



Example: Prototyping with Puzzle Engine

A Game Designer has a new idea for puzzle game: Flower Merge!









SEED + WATER = SPROUT

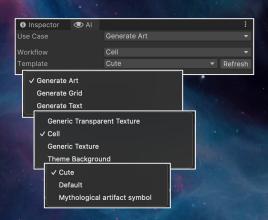




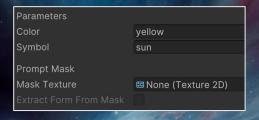


SPROUT + SUN = FLOWER

- Select Al use case (art)
- Select purpose (game cells)
- Select style (cute)



 Describe the object ("yellow sun")



• Select the art asset from different options



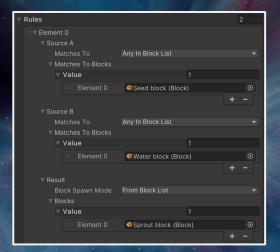




• Configure the game logic

• Configure game levels









• Play and test the game

 ... and create more art assets, e.g. for backgrounds.





COSMIC LOUNGI

• ... or create a Halloween themed version of the prototype in 15 minutes.





Al at Cosmic Lounge

- Art Al is still just another tool for game development
- We have professional artists, who also leverage art Al services
- We have also other AI based use cases in development
 - Al assisted game design
 - Al assisted game testing
 - Al based game personalization
 - Al based localization





Come to hear more at RovioCon Google 2023, November 29th. Presentation: How Cosmic Lounge is Using AI to Change the Game

