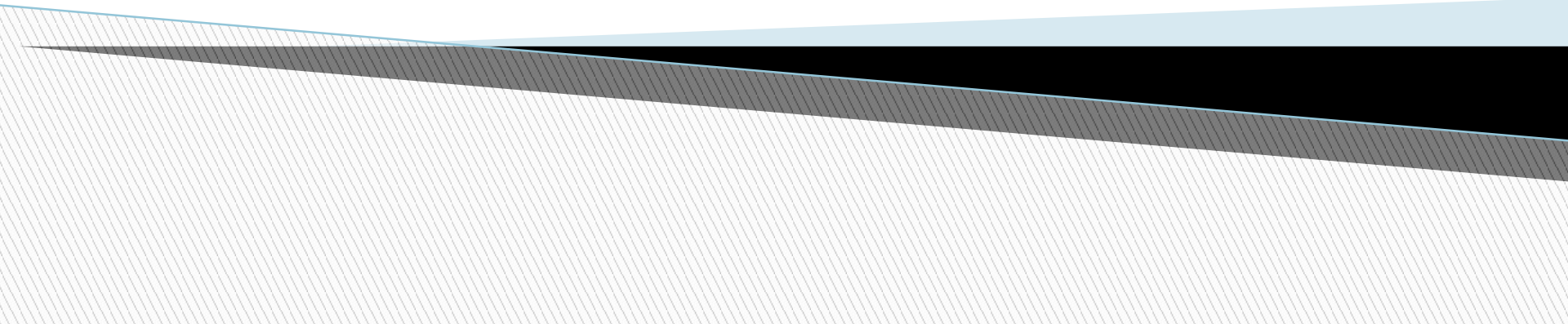
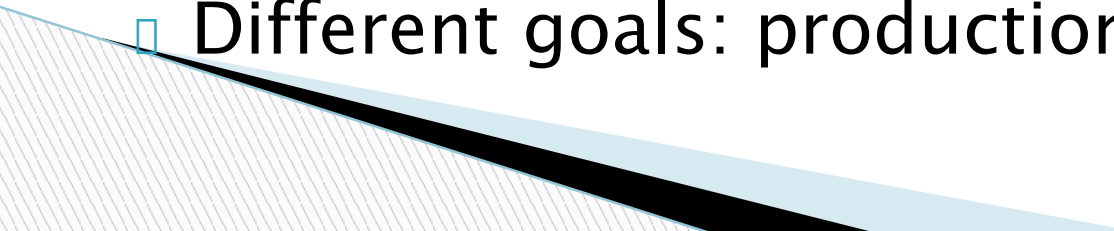


# **Survey of game engines**

By Mikhail Yakovlev



# Types of game engines

- 2D/3D
  - Platform: desktop, mobile, web, game consoles, etc
  - Open source/ Proprietary
  - Different languages: C++, Java, C#, Python, etc
  - Different goals: production, prototyping
- 

# What we don't consider

- All 3D  (Unity, Unreal Engine, CryEngine, Blender Game Engine, jMonkeyEngine)

Just one note: in  
my opinion it's  
the best!

Formalade, Construct 2)

Flash, XNA)

Low-level (SDL, SFML,  
PyGame, OpenFL)

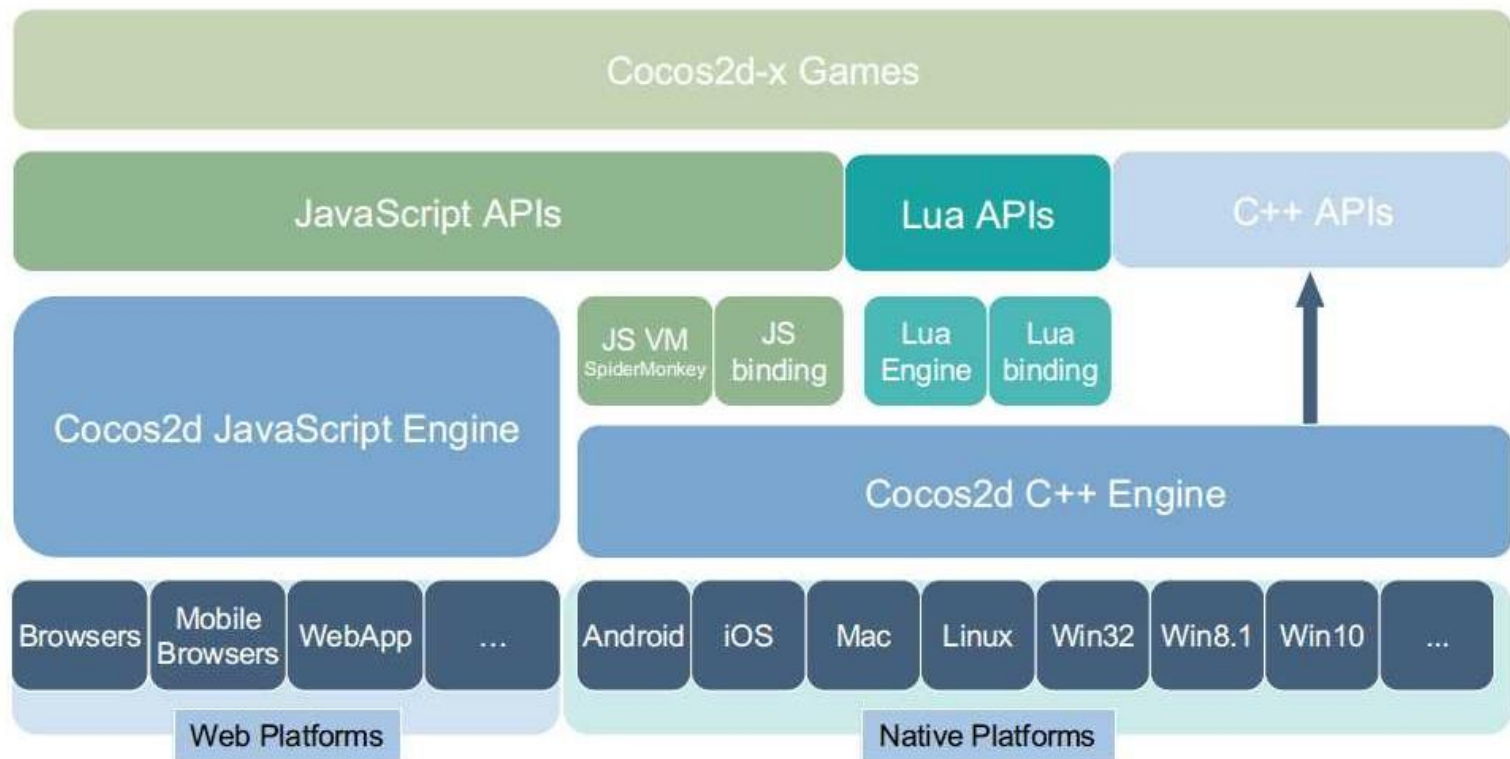
- Very specific goals (Ren'Py)

Languages: C++, Lua, Javascript

Platforms: iOS, Android, Windows Phone and Store Apps, OS X, Windows, Linux and Web

License: MIT

Architecture:



Points of interest:

- Integrated with physics engines: Box2d and Chipmunk
- Scene management (workflow)
- OpenGL ES 2.0 (mobile) / OpenGL 2.1 (desktop) based
- Cocos Studio: game development toolkit, which enables game developers to quickly create game contents. Cocos Studio includes 4 core game development editors namely, UI Editor, Animation Editor, Scene Editor and Data Editor.
- Cocos Code IDE: official IDE for developing great games with Lua or Javascript. It supports code hinting, auto completion, one click instant run & debug, and step by step debugging.



Languages: Java and JVM languages

Platforms: Windows, Linux, Mac OS X, Android,  
WebGL enabled browsers and iOS

License: Apache 2.0

