"it's time to kick ass and chew bubble gum...", a unity 3D live coding demo

Debug.log(this);

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Unity 3d from a dev point of view

c++ engine scripting provided by Mono (open source .Net) c#, unityScript, boo

mono is actually an interesting choice

mono 2.6 (approx .Net 3.5)

code completion, refactoring tools (works best with visual studio)

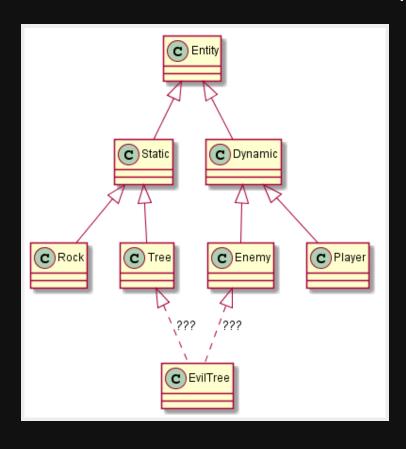
access to .Net (sockets, XML, etc.)

LINQ

How does it work?

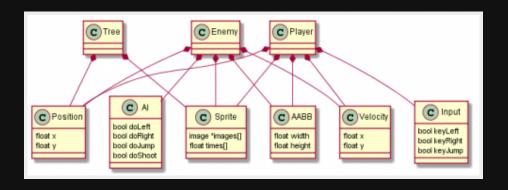
Once upon a time (old shool OO)

everything inherits from a base gameobject results in a tree of doom (vertical complexity)



composition over inheritance

Component Entity Systems configurable, reusable, better encapsulated



Entity

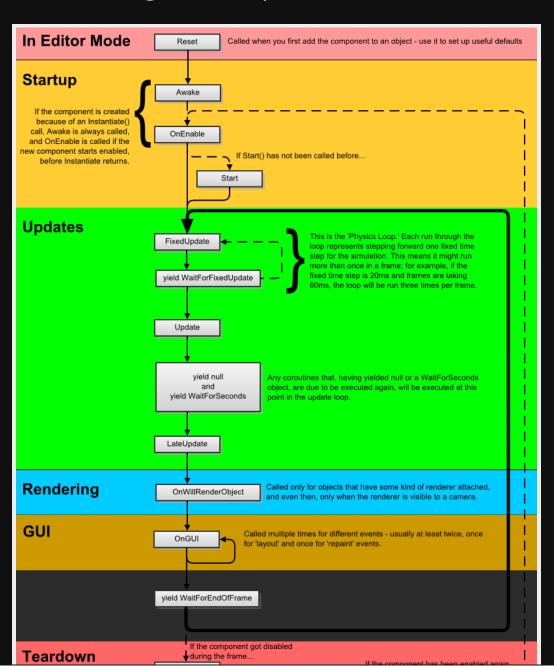
just an id
with a container of components
in Unity they are called GameObjects

Component

a minimal set of data needed for a specific purpose (SRP) an Object of Type MonoBehavior in Unity Transform, Material, Collider, and your own scripts Systems

single purpose function that traverse the entities, and update each component

the game loop and its events



an interesting read

http://www.chris-granger.com/2012/12/11/anatomy-of-a-knockout/

resources

- embedded Asset Store
- http://docs.unity3d.com/Documentation/ScriptReference/
- http://unitygems.com/

let's code

https://github.com/david-demainlalune/SoftShakeAsteroids