Gaming for the Greater Good

Horia Dragomir goto;amsterdam





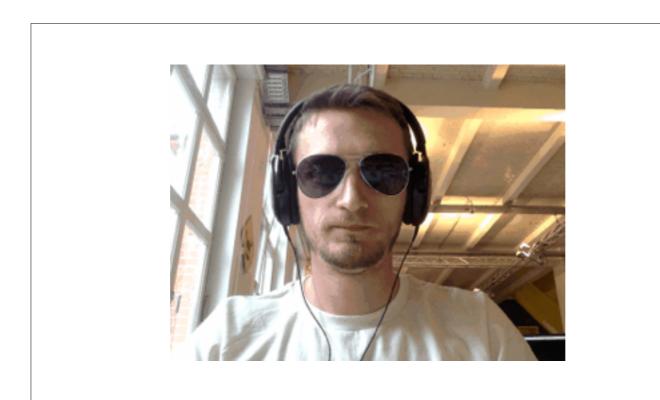
"Games lubricate the body and the mind." — Benjamin Franklin



"C makes it easy to shoot yourself in the foot; C++ makes it harder, but when you do, it blows away your whole leg."

- Bjarne Stroustrup

A programmer...



Me, feeling good about my programming skills



Wooga, where I work, makes casual games for mobile and Facebook in Berlin, Germany

Magic

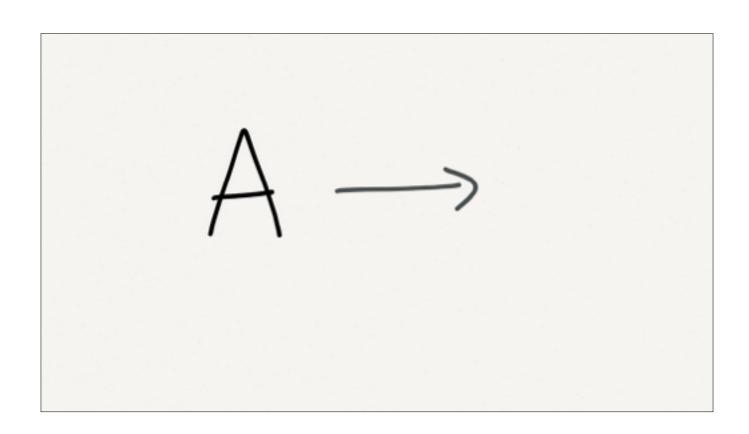
Magic

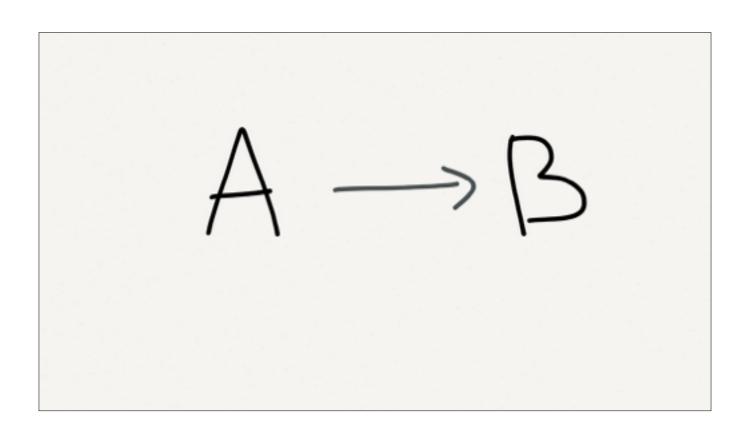
No Problem

the normal steps of an application





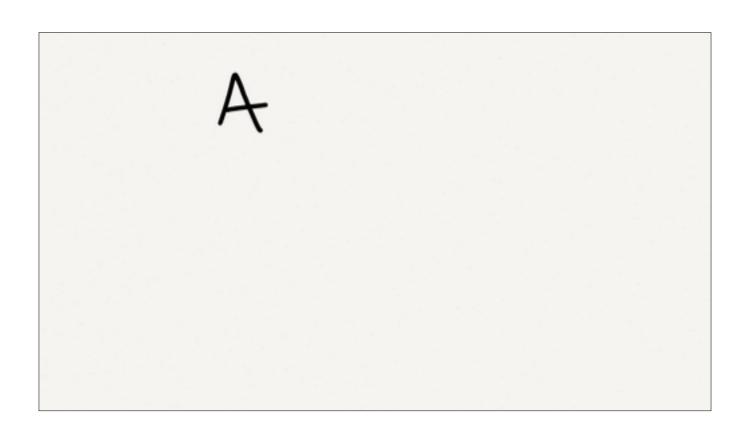


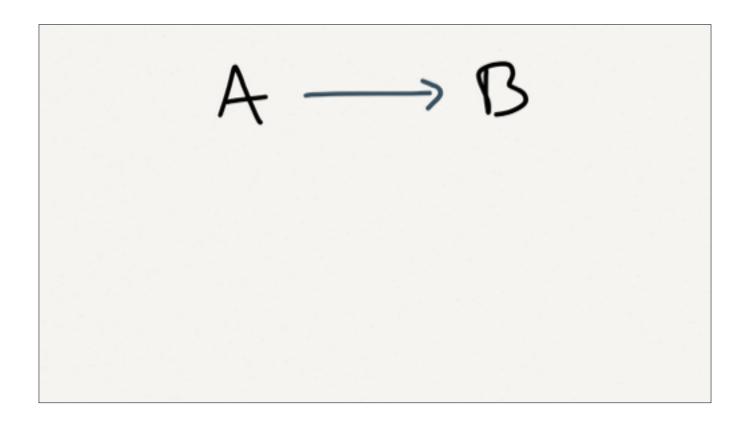


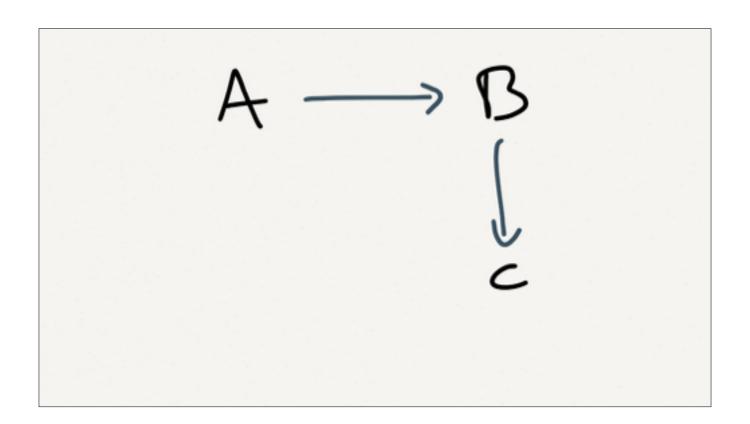


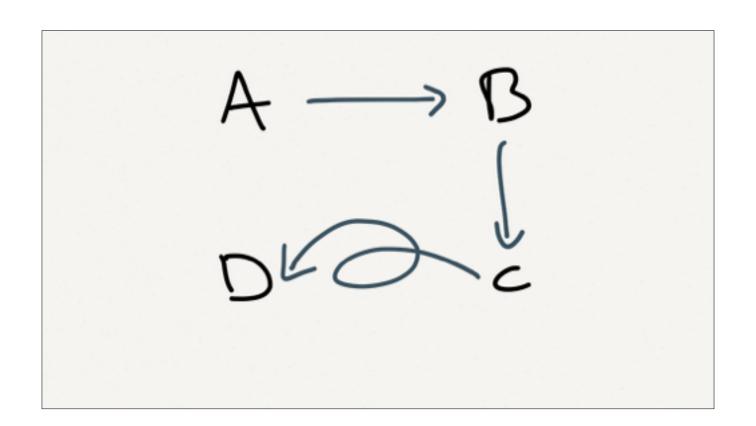
Reward, New Problem

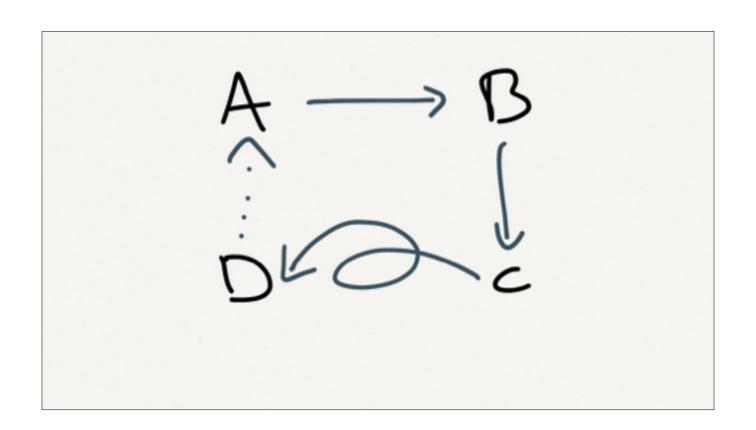
the normal steps in a game

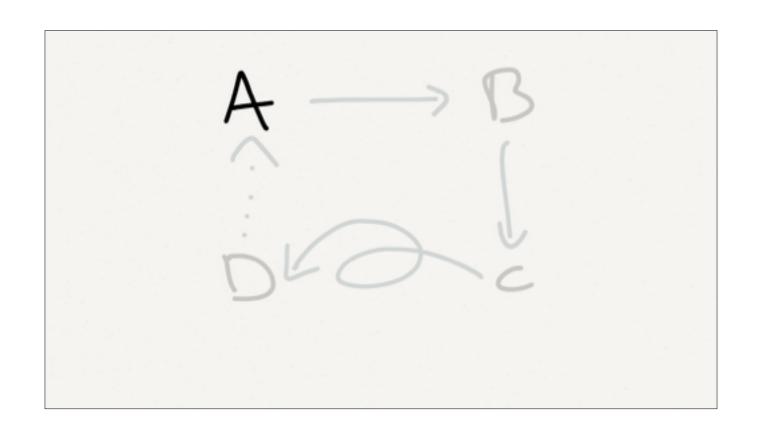




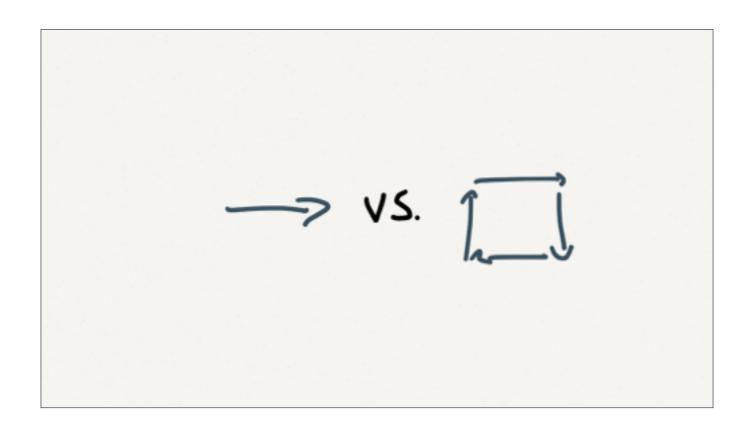




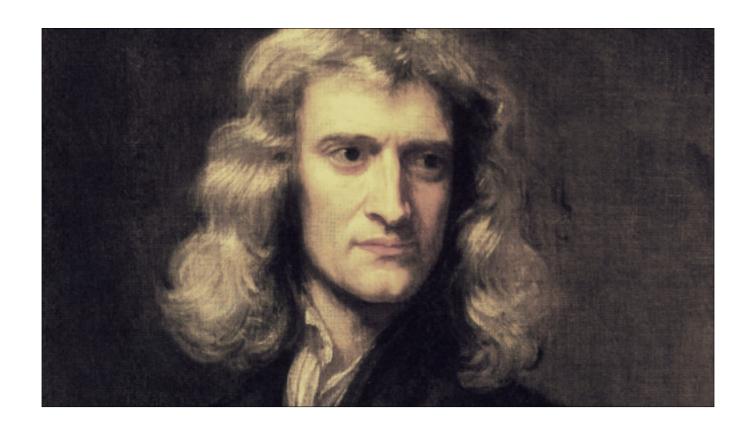








the main difference between flows in apps and games



"If I have seen further than others, it is by standing upon the shoulders of giants."

—Isaac Newton

Read more at http://izquotes.com/quote/135288

Game Devs App Devs

App Devs

Programming Language

App Devs

Programming Language

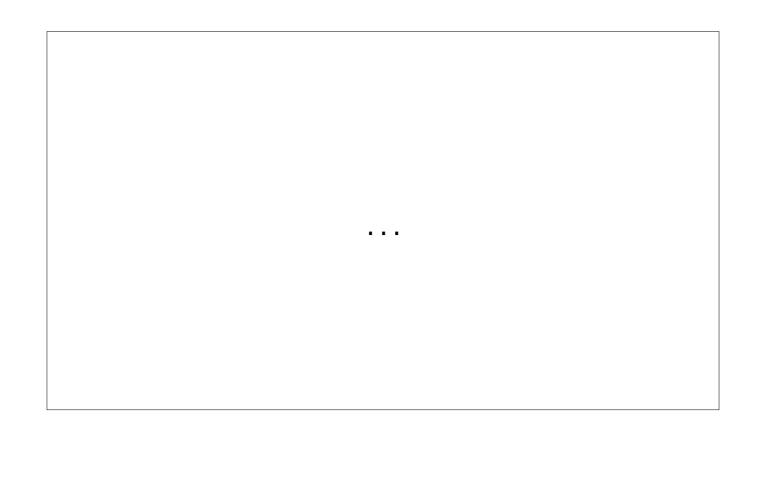
Hardware

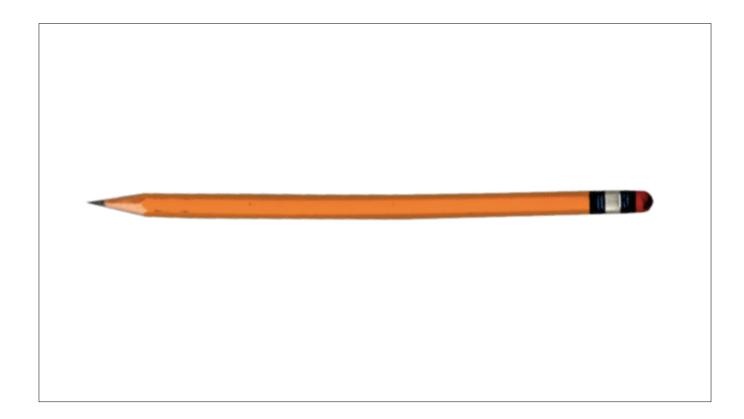
App Devs

Programming Language

Hardware

Humans

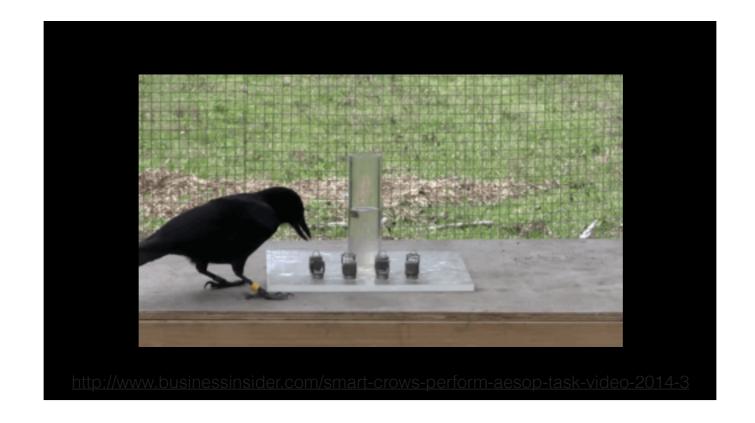




Not one single person in the world knows how to make a pencil



we have always used what's around us as tools.



it's everywhere in nature.



"still, no crow programmers"

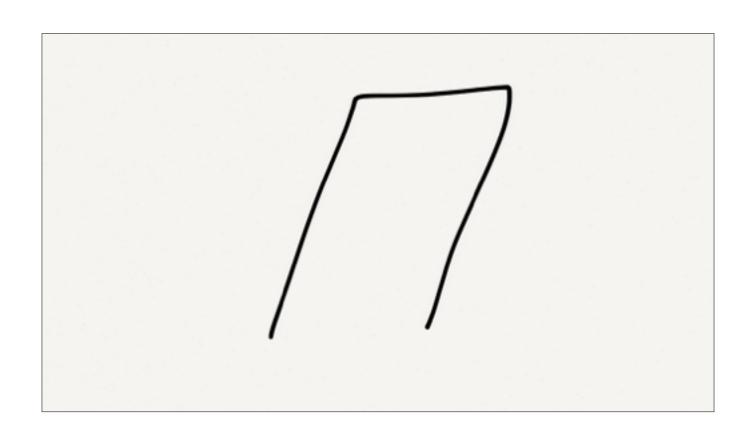


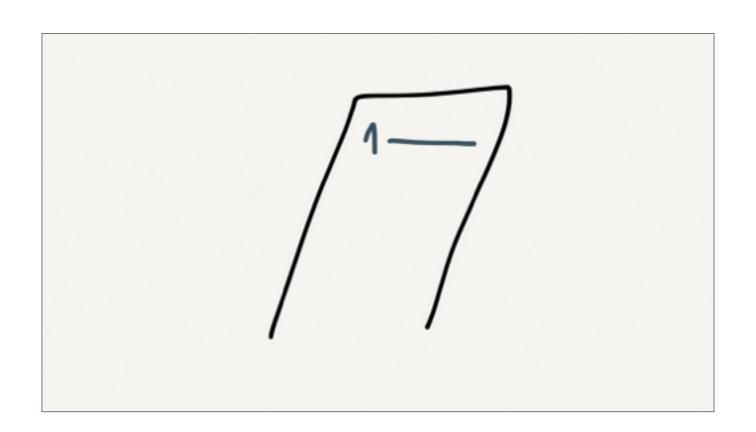
so, yeah, I sucked as a game developer at first

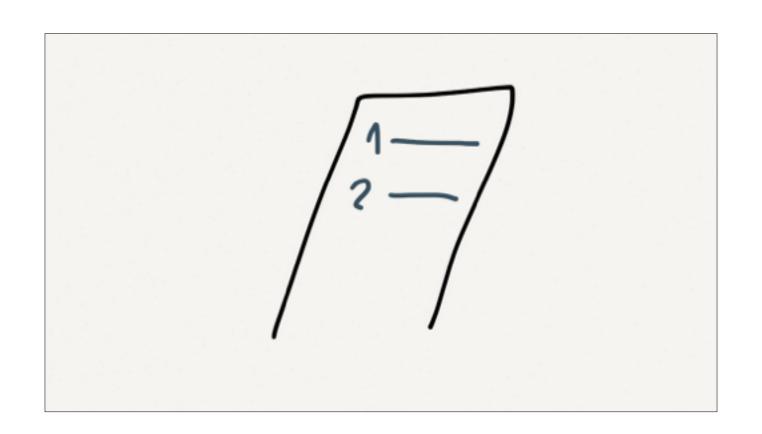


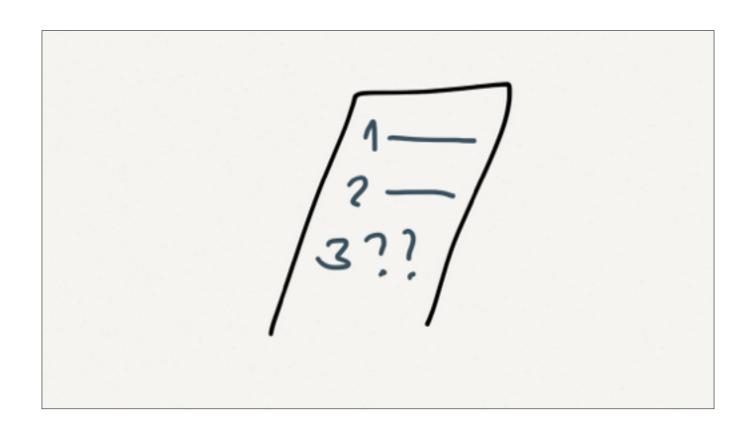
but I got to hang around with some game developers.

Language Agnostic

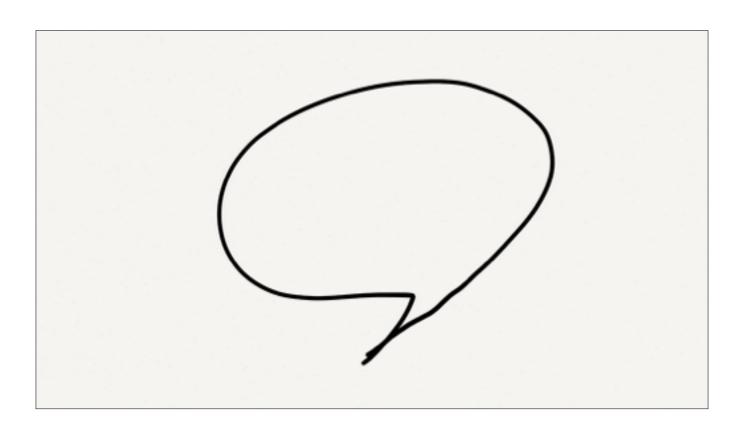








they don't focus a lot on how

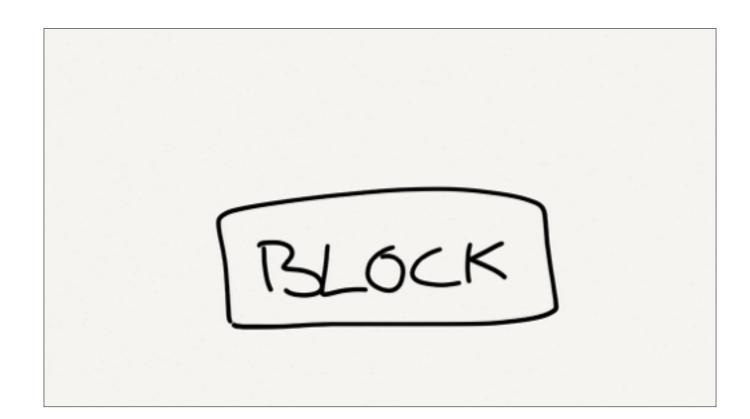


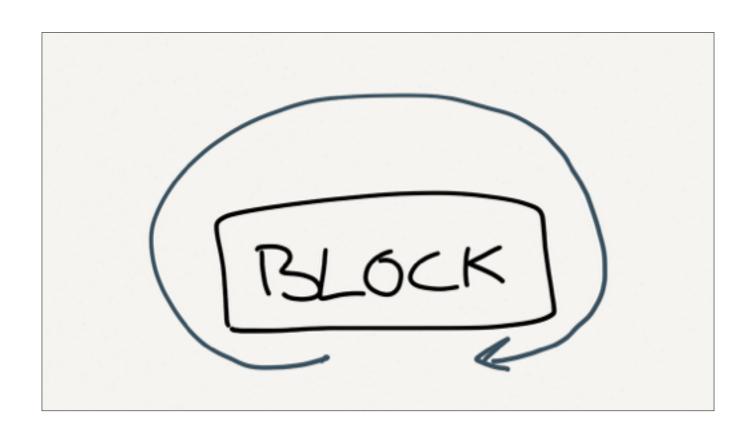




rather on what they are building

BLOCK

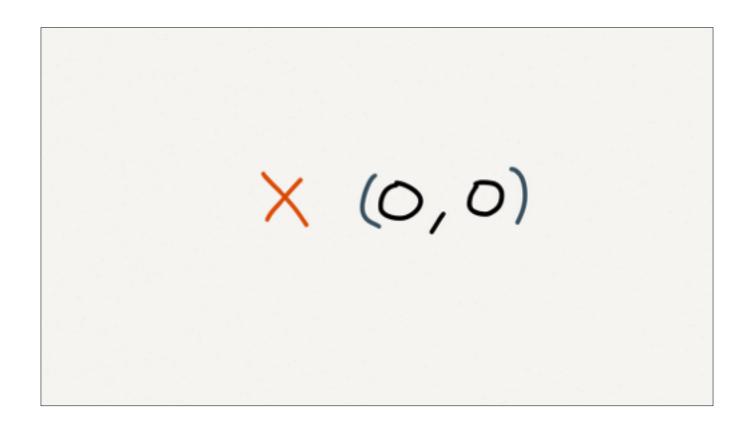




as you gain experience, best practices emerge

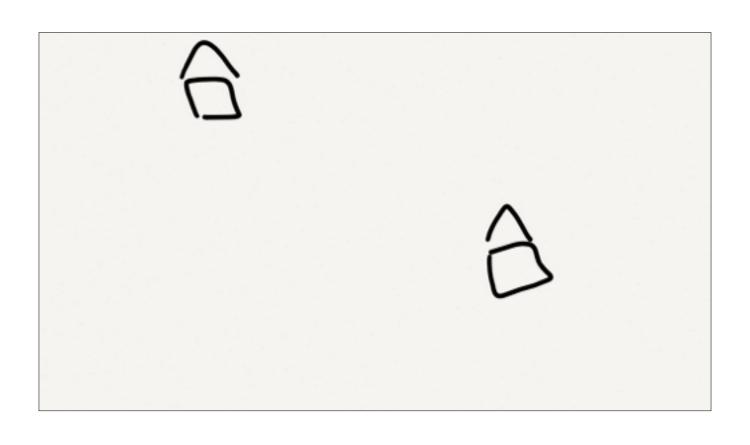


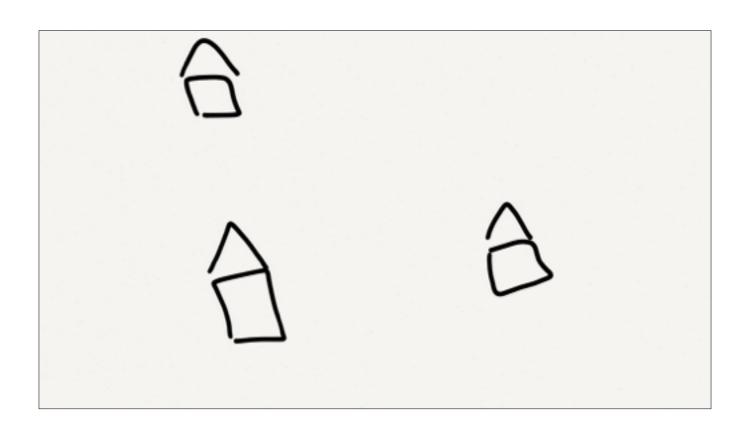


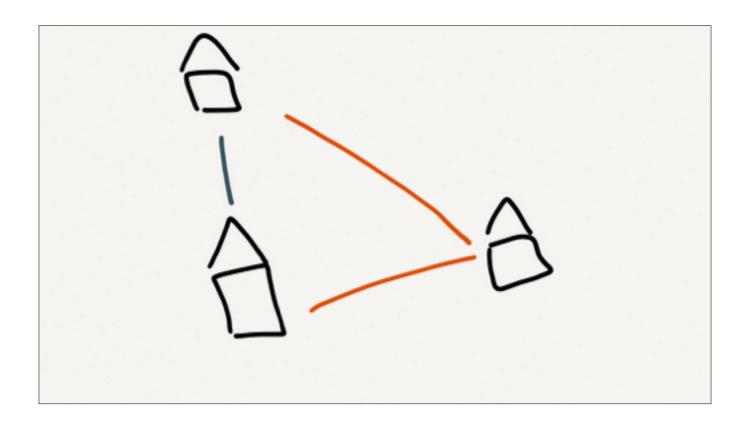


and you start dealing with negative coordinates from the beginning, rather than shoehorning it in later adding new regions to a map becomes easier





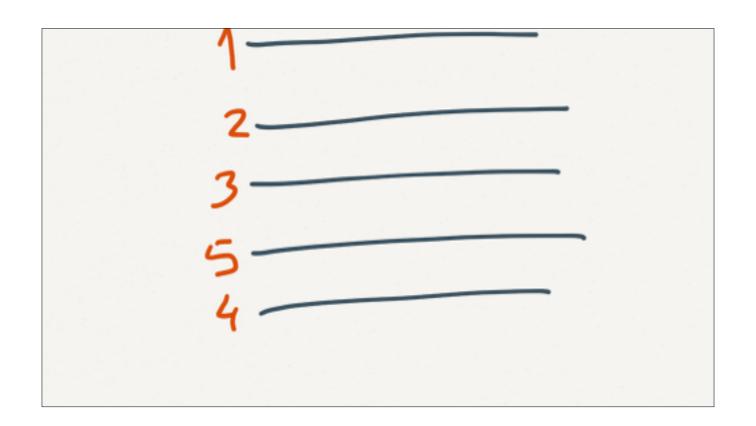




make sure you think of all the key components and their interactions from the get go



no, not todo lists. Logical structures



queues empower you to do so many things

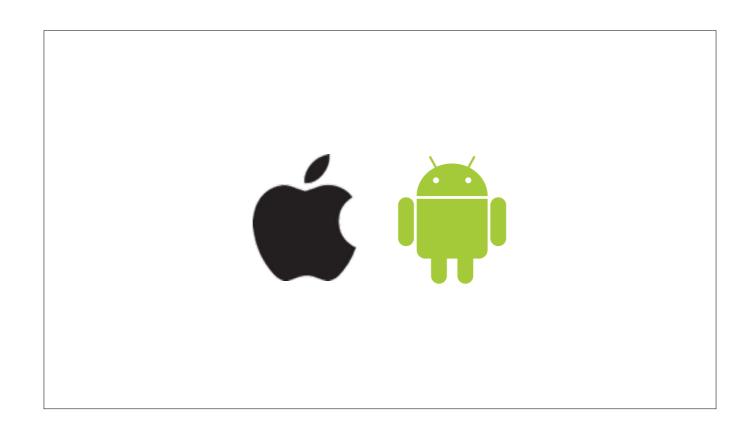


all these clever tricks...

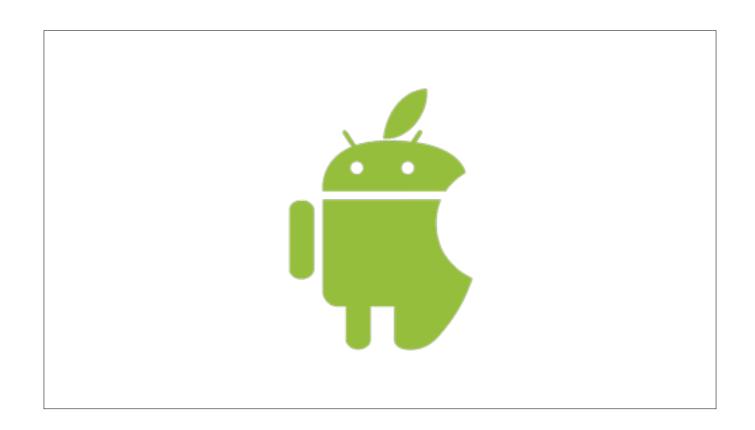




... and you'll still be limited

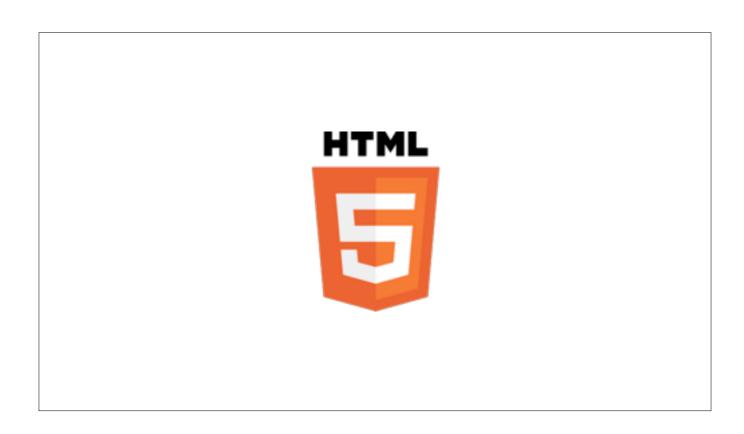


there are so many platforms, each with their own limitation..



[Clever Solutions, for Multi Platform]

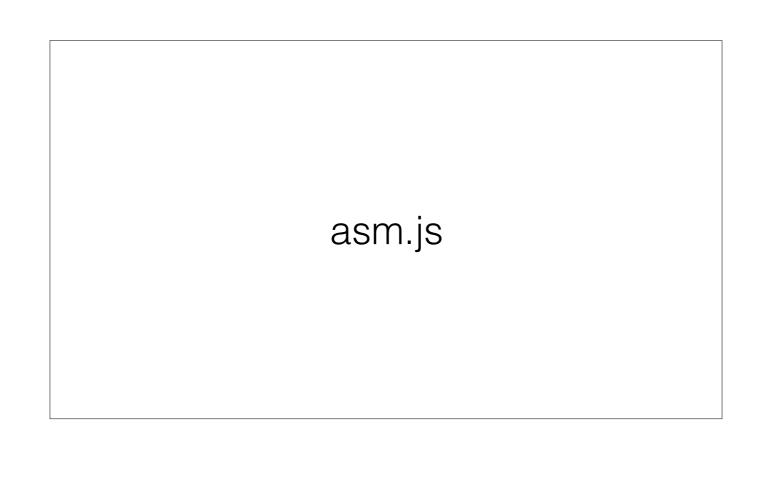
over the past few years, we've had many solutions. We've tried many of them at Wooga, but I want to talk about three now



xplatform from the get-go
javascript is a fun language
hardware acceleration, which you use to cheat for better performance

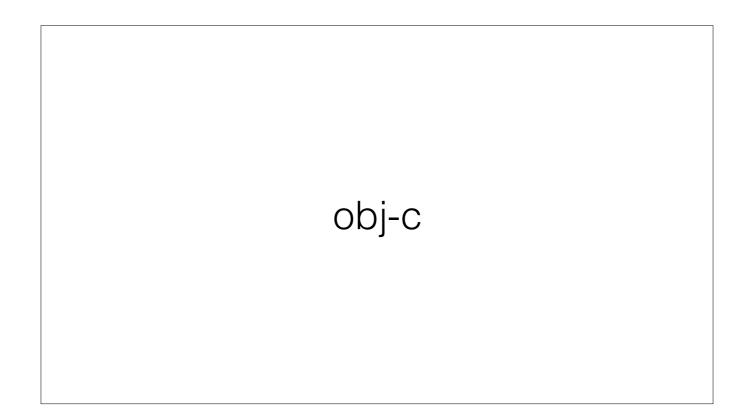


will-change: opacity, transform;

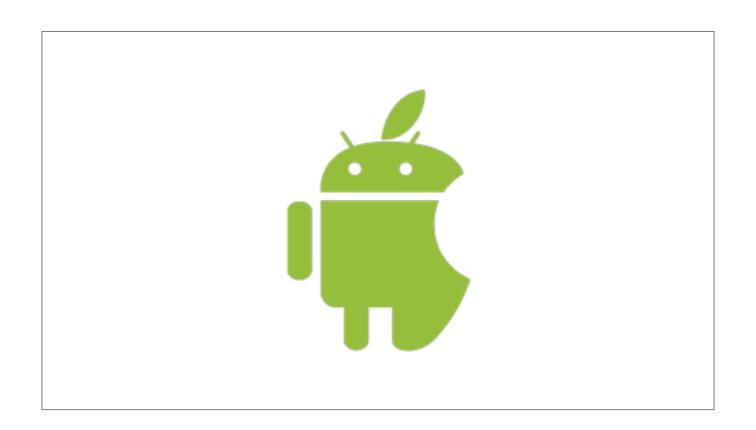




unity supports both c# and JS and is a great ecosystem for making games



but the big boys use obj-c



but what about multi-platform?



#ifdef ANDROID



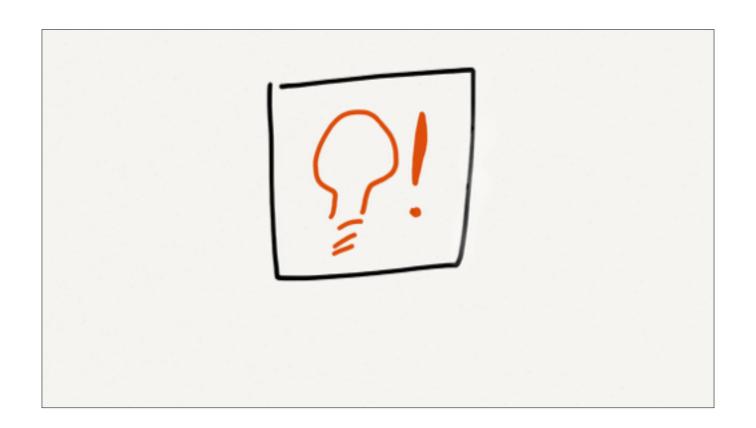
[Prototyping]

The simpler the language, or the more it abstracts, the quicker you are at prototyping in it. HTML5: very easy to lay down the basic mechanics for a game.

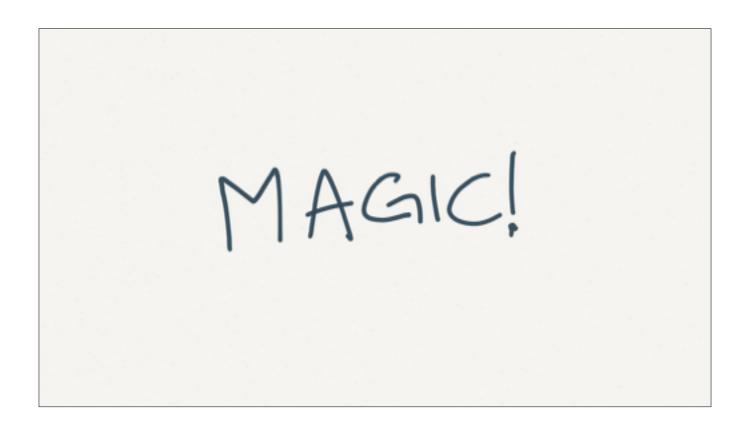
OBJ-C feels just very grown up, and Unity is quite in the middle.



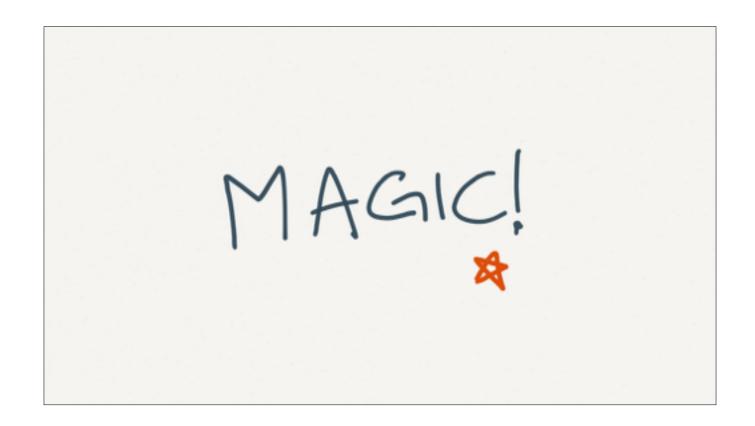
all this because of limitations



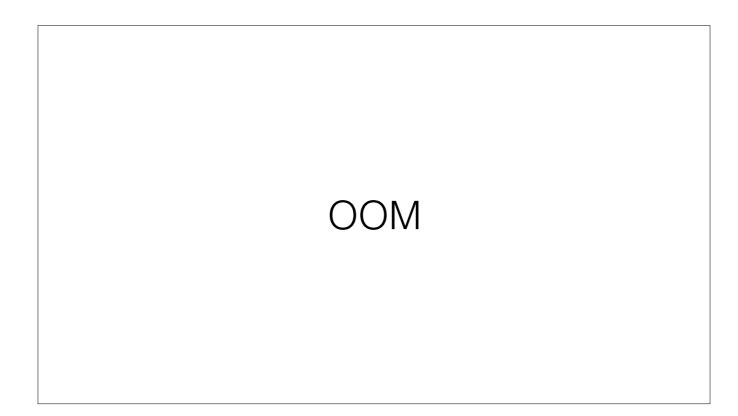
all this because of limitations



all this because of limitations



you want your users and players to feel some magical moments. For that you'll need to perform some magic of your own



the 2mb story

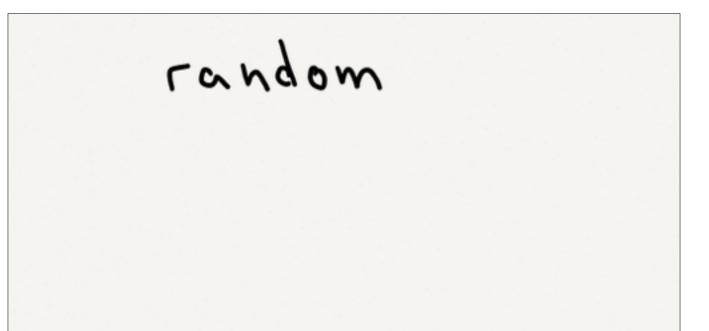
static char buffer[1024*1024*2];



http://www.mine-control.com/zack/winzaq/winzaq.html

http://www.mine-control.com/zack/winzaq/winzaq.html

"Heck, we couldn't even find the collision detection..."



random ()

random () {

3

```
random(){

return rand();

//easy, lol

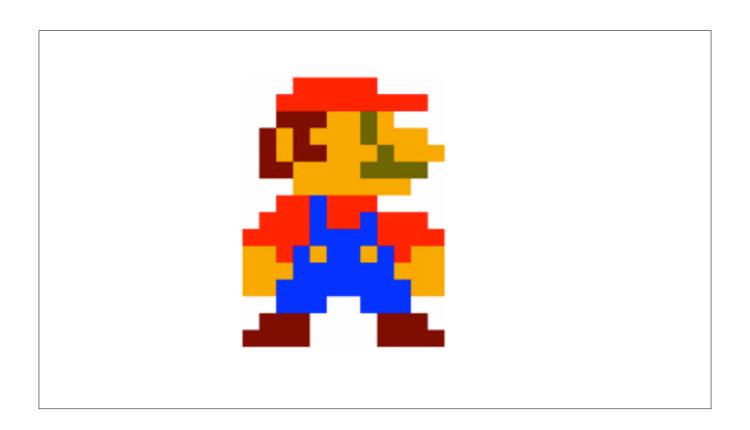
3
```

```
random(){

return 0.1 + rand();

//there, casual!
}
```

```
random(){
return 0.1 + rand()
     + time;
//grind much?
}
```



overalls

hat

moustache

designed by what can be done



Yes, I say magic a lot
That's how game devs and app devs are the same



Yes, I say magic a lot
That's how game devs and app devs are the same

Smiles and Magic

our legacy, as people who make things

Any sufficiently advanced technology is indistinguishable from magic.

Arthur C. Clarke



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