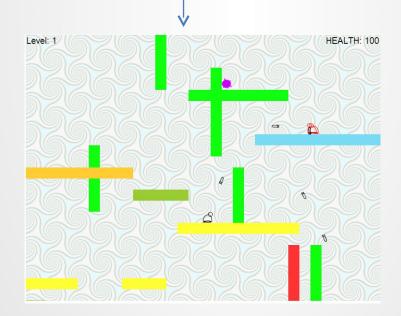
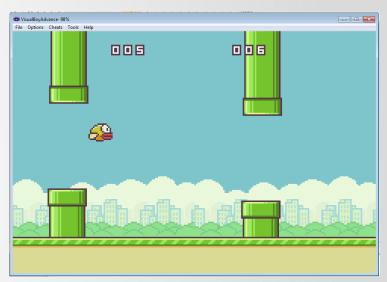
Flappy Bird

Max Kidd 1200890

The Idea - Why?

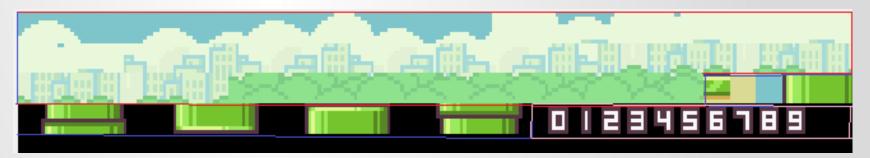
- Sprite-sheet available
- · Focus on structure
- Focus on gameplay





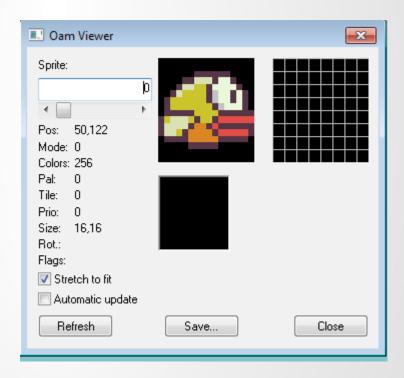
Plan of use for the GBA

- 3 Backgrounds
- Background
- Foreground
- · UI
- Tiles for all backgrounds packed together for space and referenced appropriately



Plan of use... cont

- 1 Object
- · Flappy Bird

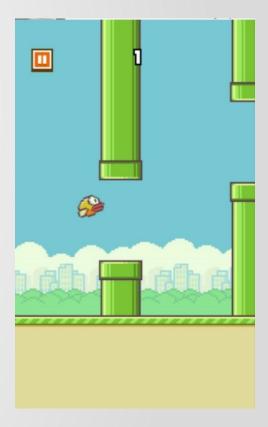


The current look

GBA Version



Real version



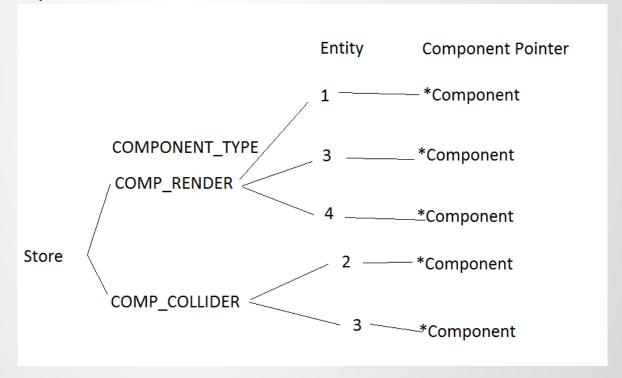
Structure: Components

- Entity-Component based system
- Flexibility and readability

- Taking notes from
- Unity
- · Ash framework
- Other open source gits

Entity Manager

- The entity manager holds a vector of all the entities
- It also holds a map of all the component types (enum) to another map of entities and a pointer to the actual component



Graphics Manager

- Draw render and background component
- Updates foreground tiles
- Update's sprites position and rotation

Logic Systems

- Background manager
- · Collision system
- · Player controller
- · Update systems

What I've learnt

- · Flaws in the system
- Ported the system to AS3
- Working with lots of objects
- A lot of the structure
- Stop overcomplicating

What went well

- The authentic look and feel
- Component based system
- · Bjarne Stroustrup lecture
- Readability

Questions?