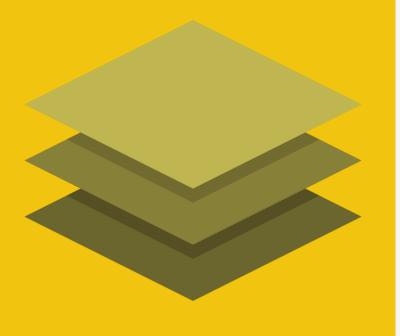
## Ordering Sprites

Daniel Olóndriz

## Ordering Sprites



Blit -> Barckground

Blit -> character

Blit -> items

Blit -> foreground

Blit -> etc...

## Problems Overlaping



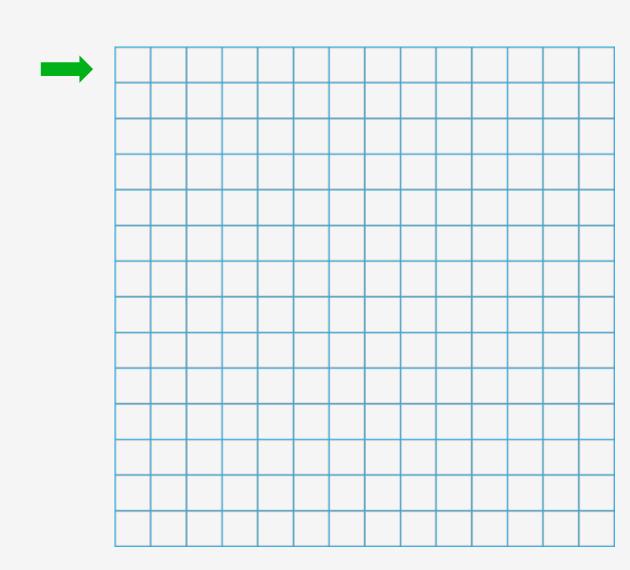


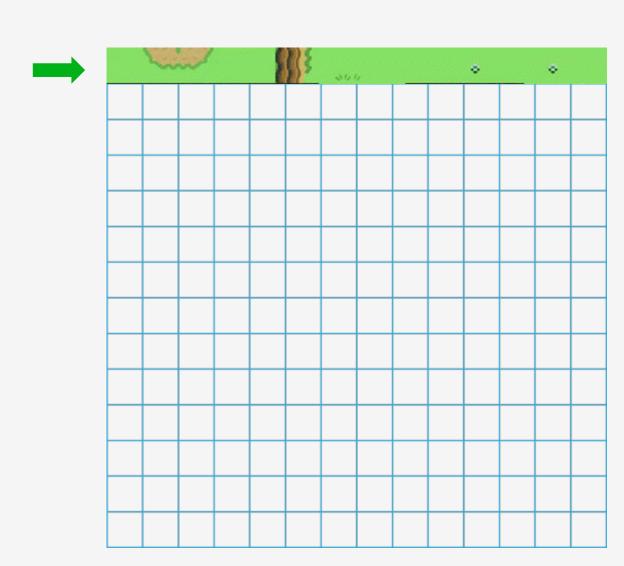


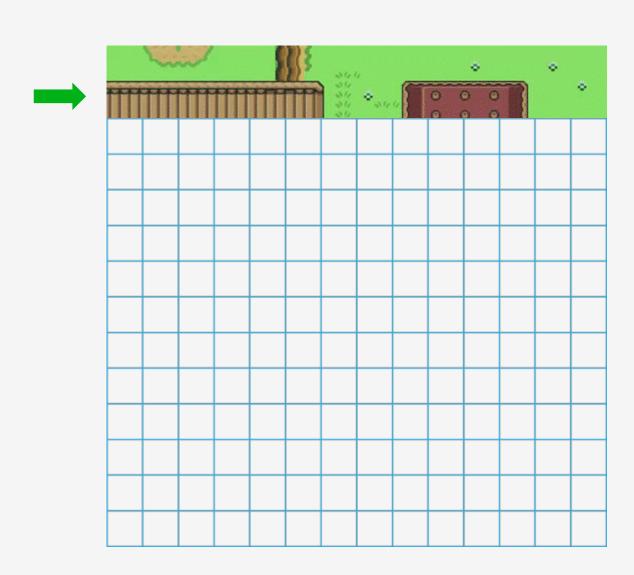


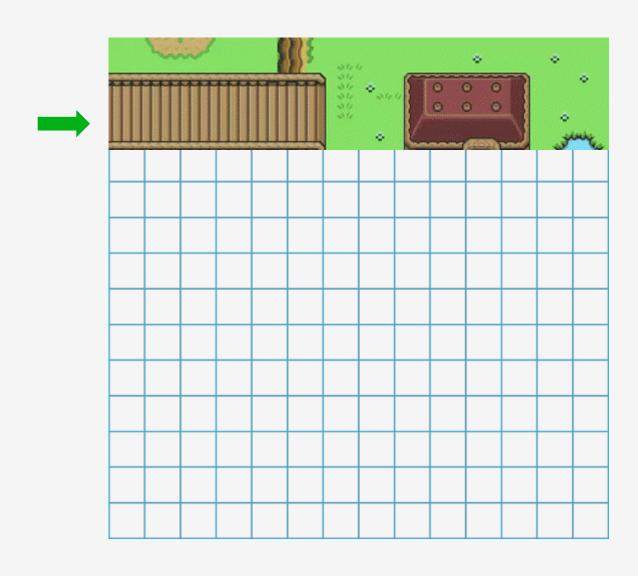
#### Stablish Priority

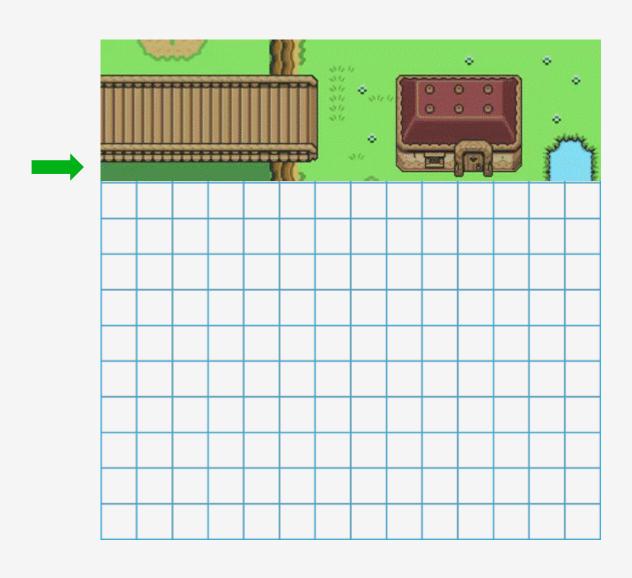
based on position















#### Process

(What I did)

- 1- Struct/Class for the Sprites.
- 2- List / Queue that takes ever sprite. (double ended Queue recomended)
- 3- Push every sprite into the queue.
- 4- Reorder the queue following the Priority.
- 5- Iterate and Blit the queue.

## TOOSIE

# TO DO's are back



#### Struct/Class for the Sprites.

-Sprite class.

- -Should contain:
- Position
- Priority
- Texture (& rect)

#### List / Queue that takes ever sprite.

- -Easy one
- -queue of Sprite Classes.
- -std::deque recommended

# 3

Tough one ⊗

Push every sprite into the queue.

Todo 3 - Player

Part 1: Method

Create a method that pushes player sprites to the queue

Must receive **priority** value.

Part 2: Call the method

Call the method in the Update of player.

Think of wich priority should have the player.

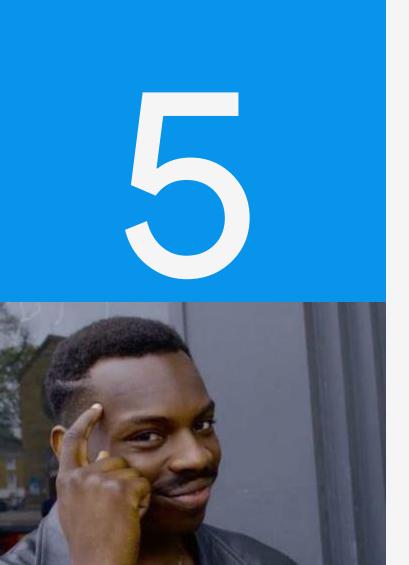
#### Push every sprite into the queue.

#### **Todo 4- Entities**

Create a **method** similar to the one of the player that **pushes** 

Entities sprites to the queue.

Must receive **priority** value aswell.



Push every sprite into the queue.

Let's see the results!

- -Easy one.
- -Iterate the queue and blit every element of the queue
- -Clean the queue!

You can't do it wrong If you can't see the results

#### Set a priority for the entities



- -Easy one
- -Similar to the priority of the player.
- -Iterate the entity list (entities)
- -Do it for every entity

#### Reorder the queue following the Priority.



- -Think of how we did the priority queue last year.
- -Iterate the queue.
- -SWAP elements if needed
- -Lower->Higher

Thank you!