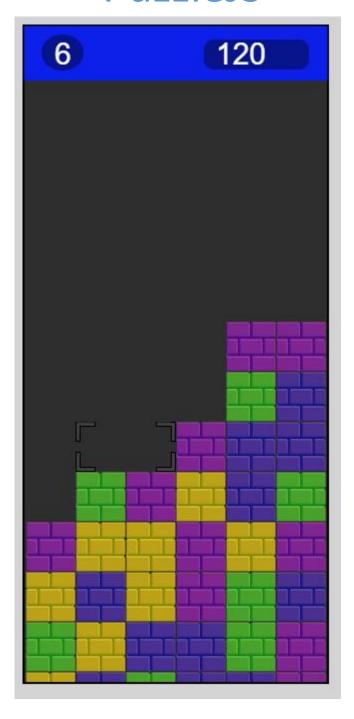
PuzzleJS



About

- A block based puzzle game.
- The blocks rise from the bottom
- To remove blocks, you need to get 3 or more blocks in a row. Horizontally or Vertically.
- When the blocks reach the top the game is over
- Blocks fall to gravity
- You can swap blocks on the same row
- Uses Model View Adapter (MVA) Design Pattern
- https://en.wikipedia.org/wiki/Model-view-adapter

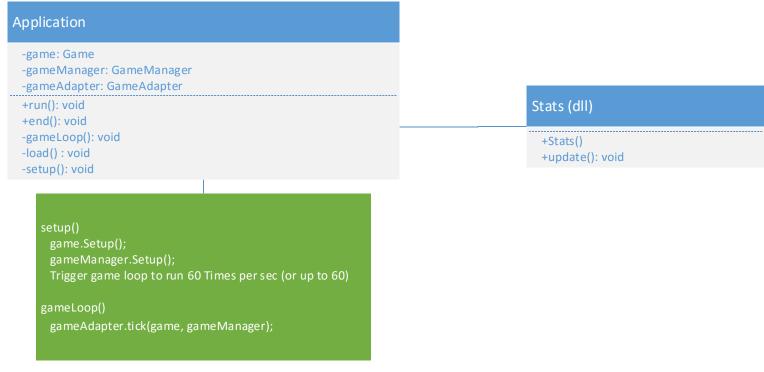
Early Prototype: http://www.puzzle-js.com

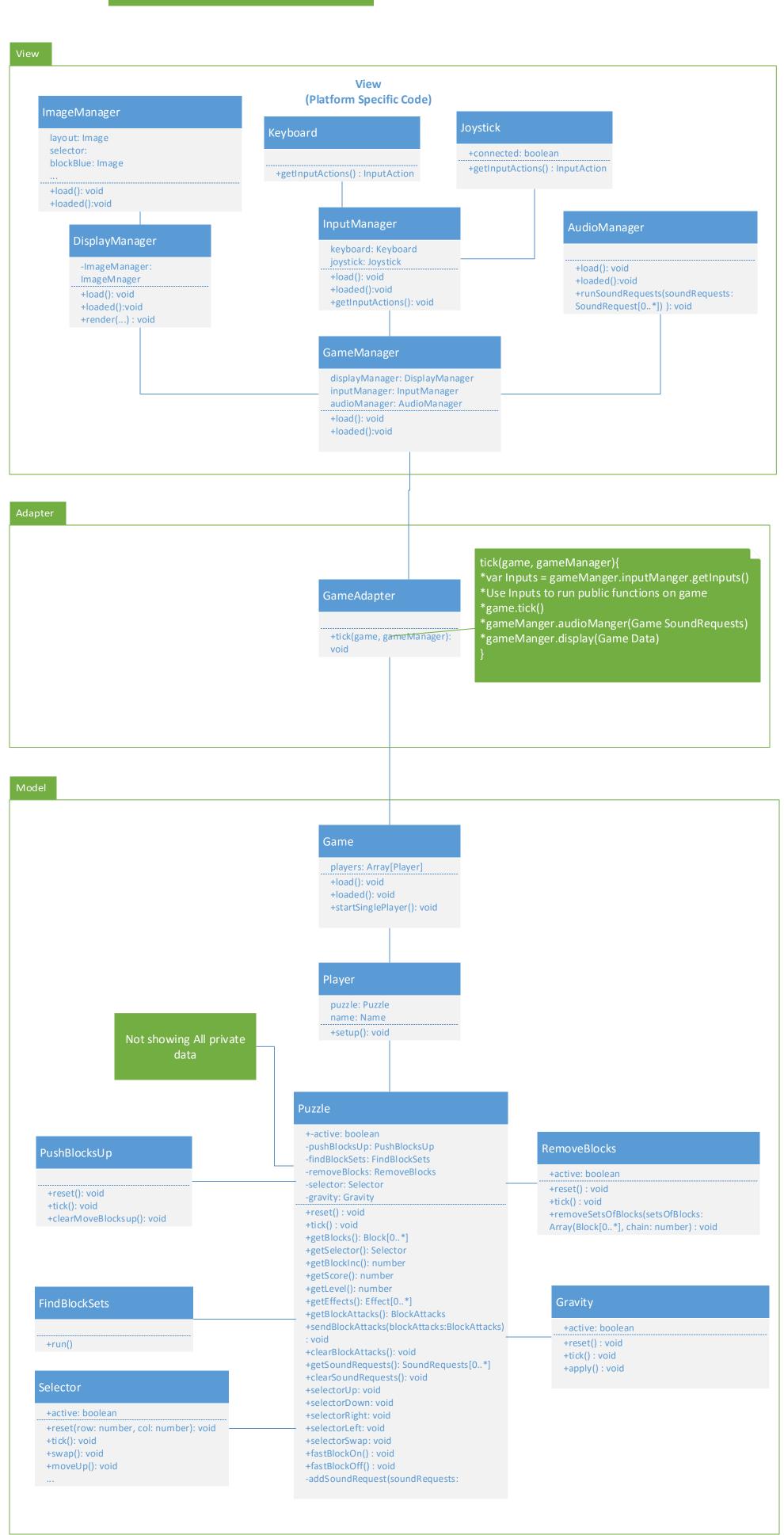
Overview

All public functions and varibles are shown.

Constructors are not shown.

Most private functions and variables are not shown here.





Enumerations

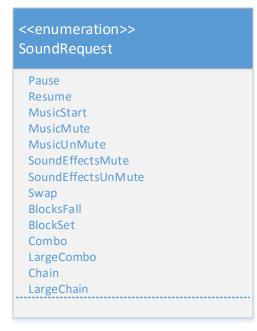
<<enumeration>> BlockState None Swap Gravity Remove

<<enumeration>> ImageTypes GreenBlock BlueBlock RedBlock PurpleBlock YellowBlock Selector Layout



<<enumeration>> KeyState None Down Up

< <enumeration>> ButtonState</enumeration>	•
None	
Down	
Up	





```
<<enumeration>>
Key

A
D
F
R
S
W
Space
Left
Right
Up
Down
```

DataTypes

Block

- +row: number
- +col: number
- +color: BlockColor
- +state: BlockState
- +Block(row: number, col: number, color: BlockColor, state: BlockState)

Block:

This is a block in the puzzle. Its always in a row and col.

BlockAttacks

- +special:number
- +six:number
- +five:number
- +four:number
- +three:number
- +BlockAttacks(special:number,six:number, five:number, four:number, three:number)

Block Attacks:

When a player gets a combo/chain and is not playing single palyer, It creates a BlockAttacks and sends it to the the other player.

RemovalInstance

- +chain: number
- +tick: number
- +endTick: number
- +RemoveSet(chain: number, tick: number, endTick: number)

When a set of blocks are removed, a instance is created. After the removal is complate it calls gravity, and passes on the chain

JoystickState

- +R: ButtonState
- +A: ButtonState
- +Up: ButtonState +Down: ButtonState
- +Left: ButtonState
- +Right: ButtonState
- JoystickState()

ControllerState:

The state of a controller (ex: xbox controller) at a given point in time.

KeyboardState

- +A: KeyboardState
- +D: KeyboardState
- +F: KeyboardState
- +R: KeyboardState +S: KeyboardState
- +W: KeyboardState
- +Space: KeyboardState
- +Up: KeyboardState +Down: KeyboardState
- +Left: KeyboardState +Right: KeyboardState
- KeyboardState()

KeyboardState:

The state of the keyboard at a given point in time.

Effect

- +tickStart:number
- +tickEnd:number
- +row:number +col:number
- +chain:number
- +set:number
- +Effect(tickStart:number, tickEnd:number, row:number, col:number, chain:number, set:number)

Effect:

When you get a combo of 4 or more and/or, or a chain an effect holds that data. it goes away after its tickEnd. Primary purpose is for display to render the effect