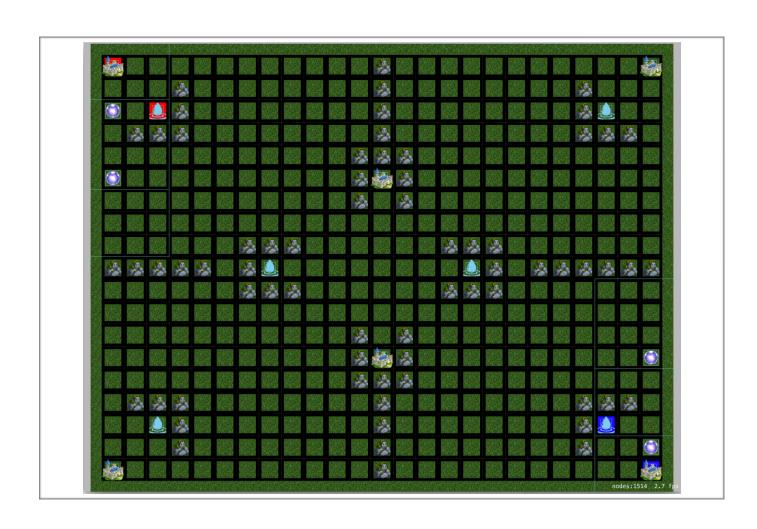
Pixel Wars



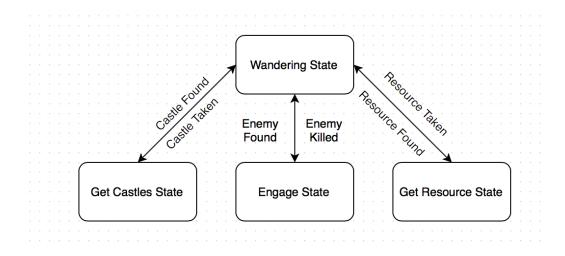
Used Technologies

- Xcode
- Objective-C
- SpriteKit

Game Components

AI behavior

- Algorithums.h/.m contains BFS which the AI uses to move around the map and the Node class definition used in the BFS.
- StateMachine.h/.m contains the AI state machine.
- State.h is protocol class (or something like pure virtual class in C++) used for the basic functionality which each state should implement.
- WanderingState.h/.m is the default AI state, which is used by the AI to move around.
- CaptrueCastleState.h/.m is is the state in which the AI goes when it sees castle(spawning point) in range.
- CaptrueResourceState.h/.m is is the state in which the AI goes when it sees resource in range.
- EngageEnemyState.h/.m is the state in which the AI goes when it encounter an enemy in range. (The choice between the above 3 states depends on which object is closest to the Agent (AI)).



Map Objects

- Map.txt is the file from which the map is loaded and populated (it size is 19x25 so it could fit on screen). There shouldn't be problems with bigger maps (maybe memory because of SpriteKit).
- MapTile.h/.m is basic map tile class from which all other classes inherit.
- AgentTile.h/.m is the Agent (AI) object which uses the state machine to take decisions.
- CastleTile.h/.m is the castle object which spawns agent each 5 sec. or faster depending on the player's resources.
- ResourceTile.h/.m is the recourse tile used by the Players to increase their castles spawning speed.
- GameScene.h/.m is the main game scene.