Entities & Responsibilities

GameWorld: Manages game initialisation & admin tasks (e.g game config, game setup, main game loop, player turn.)

Tile: Represents the tiles which the dragons will interact with (stand on)

DrawProperties: Data class for organising the drawing properties required for drawing any element

PlayableEntity: Represents the playable entity a player interacts with

GameBoard: Represents the game board. It initialises the game board & runs the interactions with the game board by the players (e.g performing movement, flipping chit card)

ChitCard: Represents the chit cards and their effects

EventBus: Handles registration of listeners, and notification of appropriate listeners on event fire

WinEventXxxx....: Publisher and listeners for win event

MoveActionXxxx....: Publisher and listeners for a move action (for characters) that is fired

DrawableByAsset: Indicates that the object is drawable by pygame using assets

DrawAssetInstruction: A data class for organising data required for drawing an asset

ModularClickableSprite: Allows classes to be represented as a sprite that is clickable on a screen.

Patterns Used

• Why?: Don't have to check all starting tiles to see if win occured. Allows for wins from other sources

Why?: Should be one central event bus managing all events

Observer: WinEventPublisher, WinEventListener

Starting tiles must be winning tiles for DefaultGameBoard (need to make the typing more strong, extra class inheriting from Tile [WinnableTile])

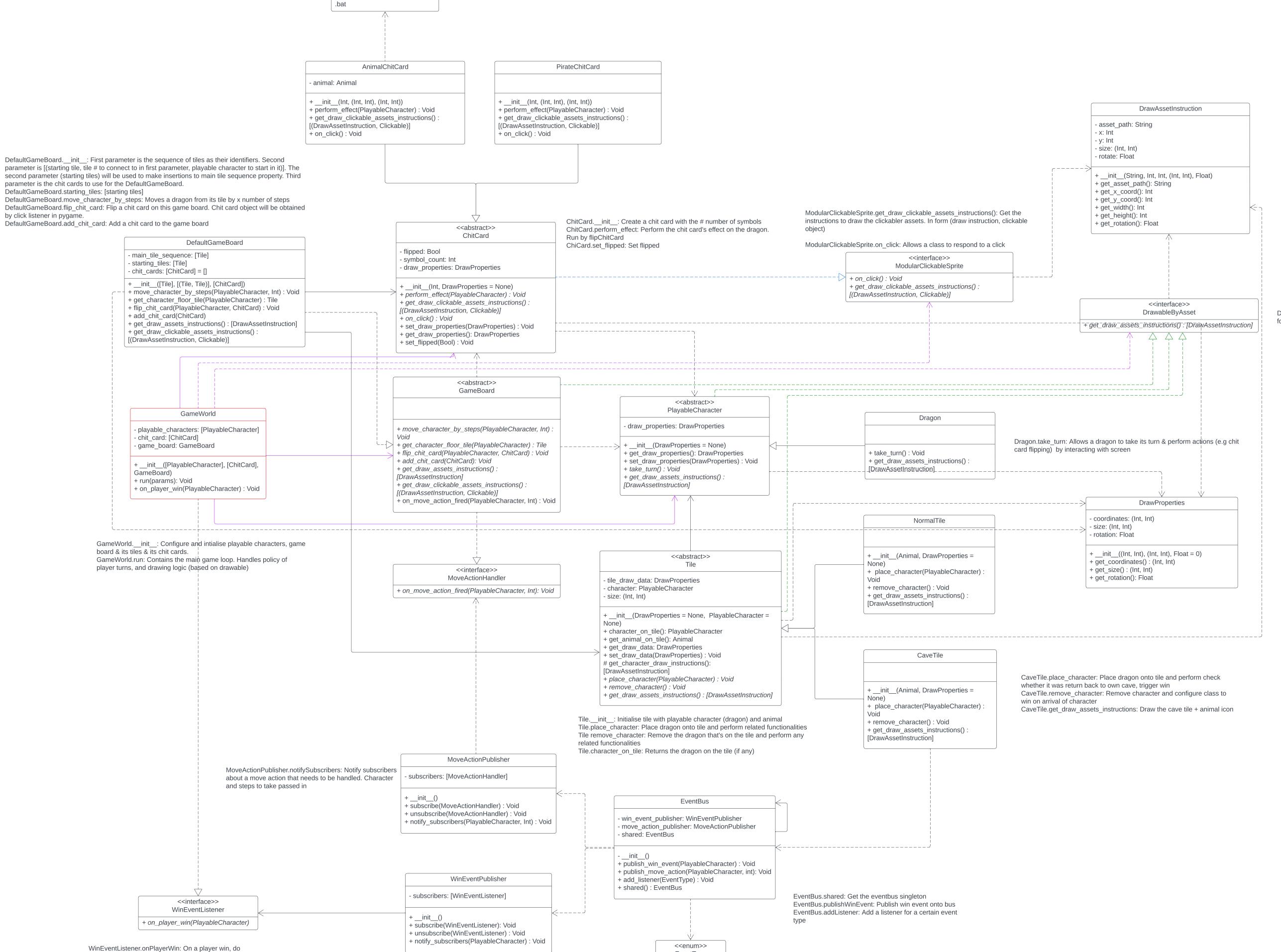
https://www.reddit.com/r/ProgrammingLanguages/comments/yvkysh/languages_which_support_circular_dependency/

something

<u>Notes</u>

Circular dependencies = too many responsibilities

https://softwareengineering.stackexchange.com/questions/306483/how-to-solve-circular-dependency Java supports circular dependencies



EventType

.move_action_fired

WinEventPublisher.notifySubscribers: Notify subscribers

about the player who won

<<enum>> Animal

.salamander .baby_dragon .spider

> DrawableByAsset.get_draw_assets_instructions: Gets the drawing instructions for drawing an object onto the pygame screen using assets