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) PlayableEntity: Represents the playable entity a player interacts with GameBoard: Represents the game board. It 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.

TileFactory, DefaultTileFactory, TileId: Tile abstract factory interface, concrete tile abstract factory that serves the regular form of tiles. TileId uniquely identify tiles to create

Observer: WinEventPublisher, WinEventListener

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

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

Abstract Factory: TileFactory

• Why?: Prevent hard dependencies in DefaultGameBoard and other gameboards. DIP

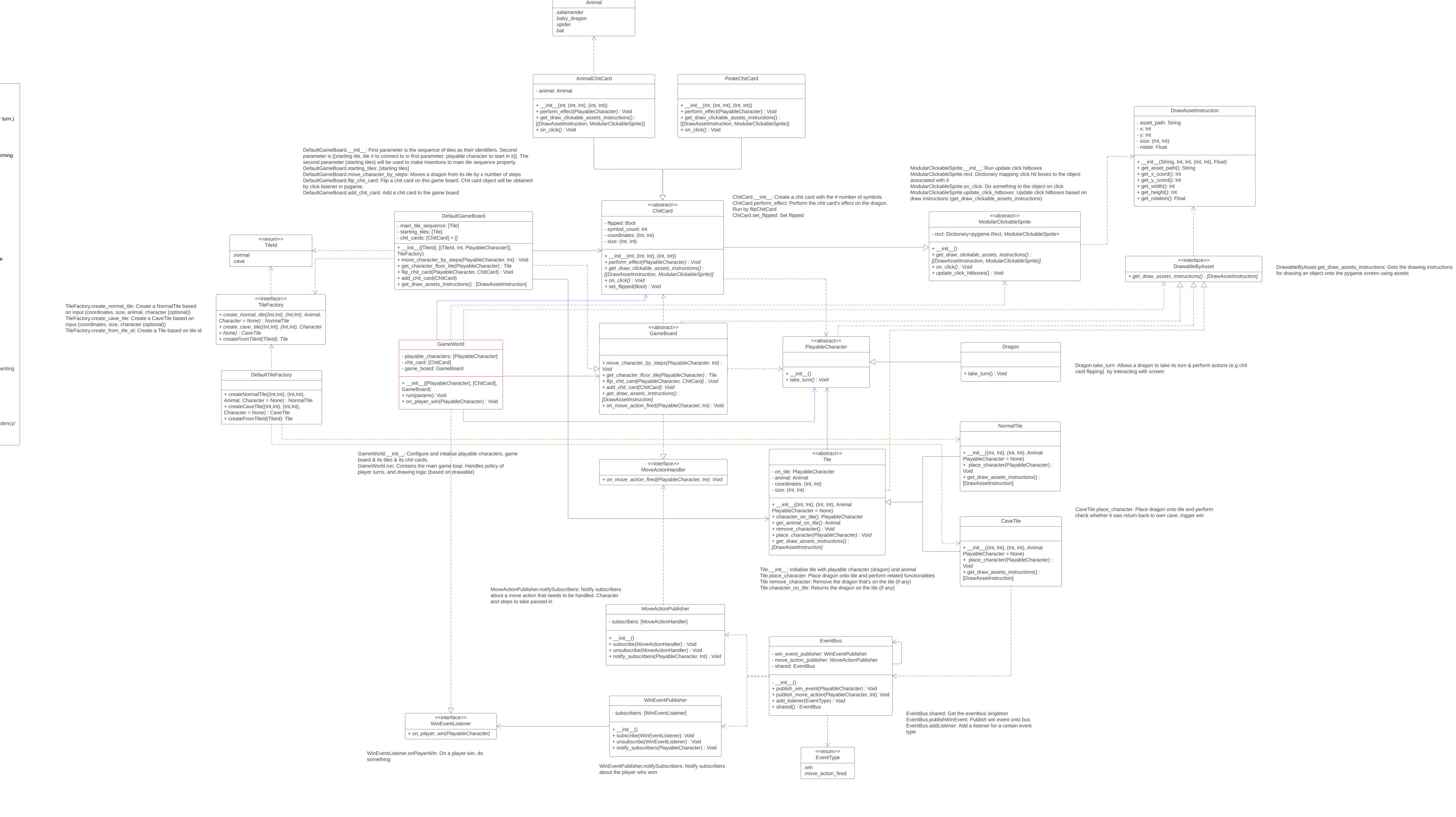
Starting tiles must be winning tiles for DefaultGameBoard (need to make the typing more strong, extra class inheriting from Tile [WinnableTile])

Upcasts are safe

Circular dependencies = too many responsibilities

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

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



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