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

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

DrawableByClickables: Represents classes that can be drawn with clickables

Patterns Used

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

Cardinalities

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

Refactor ModularClickableAsset into interface. It will inherit from interface another interface (ClickableCapable)

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/

