# Player.CS

# Properties:

## **Private** hand : *Hand*

Reference to the *Hand* component of this gameobject.

## **Private** board : *Board*

Reference to the *Board* gameobject in the scene.

## **Private** deck : *Deck*

Reference to the *Deck* gameobject in the scene.

## **Serialized** ally : *Player*

Reference to the *Player* gameobject this is allied to.

## **Private** hasAlly : *bool*

Property that keeps track of whether the player has an ally. Intended to gate calls to GetAlly().

## **Public** isAttacking : *bool*

Keeps track of whether the player is attacking this turn.

## **Public** isDefending : *bool*

Keeps track of whether the player is defending this turn.

## **Public** hasEndedTurn : *bool*

Keeps track of whether the player has finished playing cards for the turn.

## **Private** enterPlayHandler : *EnterPlayHandler*

Reference to the *EnterPlayHandler* gameobject in the scene.

## **Private** gameState : *GameState*

Reference to the *GameState* gameobject in the scene.

## **Private** isAI : *bool*

Keeps track of whether the player is controlled by an AI. Intended to gate calls to GetAI().

## **Private** ai : AI

Reference to the *AI* component of this gameobject.

## **Private** isThinking : *bool*

Keeps track of whether the *AI* component is “thinking”.

## **Private** statusUpdater : *StatusUpdater*

Reference to the *StatusUpdater* component of this gameobject.

## **Serialized** playerName : *string*

Name to be displayed during game play.

## **Private** audioSource : *AudioSource*

Reference to the *AudioSource* component of this gameobject. The associated *AudioClip* will be played whenever this player plays a *Card*.

# Lifecycle Methods:

## Awake:

The Awake() method is responsible for finding all the necessary references and initializing any gate-keeping properties related to those references.

## Start:

Subscribes to the *EnterPlayHandler*.

# Methods

## **Public** GetHand

### Parameters: None

### Return: *Hand*

Returns a reference to the hand component of this object.

## **Public** DrawACard

### Parameters: None

### Return: None

Draws a card from the deck object to the hand component of this object.

## **Public** DrawCards

### Parameters:

#### number : Int

Number of cards to be drawn.

### Return: None

Draws multiple cards from the deck object to the hand component of this object

## **Private** PlayCard

### Parameters:

#### card : Card

Card that will be played.

### Return: None

Moves card from the hand component of this object to the board object.

## **Public** AttackWithCard

### Parameters:

#### card : Card

Card that will be used to attack with.

### Return: None

## **Public** DefendWithCard

### Parameters:

#### cardinHand : Card

Card that player will be defending with.

#### cardOnBoard : Card

Card that player will be defending against.

### Return: None

## **Public** GetAlly

### Parameters: None

### Return: *Player*

Returns a reference to the player object that this player is allied with. This function will return null if this player is not allied to another other player object.

## **Public** EndTurn

### Parameters: None

### Return: None

Sets this player object ready to end the turn. Turn ending control is handled by *GameState* object.

## **Public** IsAI

### Parameters: None

### Return: *bool*

Returns the value of the isAI property;

## **Public** HasAlly

### Parameters: None

### Return: *bool*

Returns the value of the hasAlly property.

## **Public** UpdateThinkingStatus

### Parameters:

#### value : bool

Value that the property isThinking will take on.

### Return: None

Updates the isThinking property.

## **Public** GetThinkingStatus

### Parameters: None

### Return: *bool*

Returns the isThinking property.

## **Public** GetStatusUpdater

### Parameters: None

### Return: *StatusUpdater*

Returns a reference to the statusUpdater component of this object.

## **Public** GetName

### Parameters: None

### Return: *string*

Returns the playerName property.

# Scene Settings

This component assumes that there a *Board* gameobject, a *Deck* gameobject,a *GameState* gameobject, and an *EnterPlayHandler* gameobject in the scene.