Members

AnyBoard: object

Global variable AnyBoard.

Typedefs

playDrawCallback: function

This type of callback will be called when card is drawn or played

simpleTriggerCallback: function

Type of callback called upon triggering of events

stdStringCallback: function

Generic callback returning a string param

stdBoolCallback: function

Generic callback returning a bool param

stdNoParamCallback: function

Generic callback without params

onScanCallback: function

Type of callback called upon detecting a token

stdErrorCallback: function

This type of callback will be called upon failure to complete a function

AnyBoard: object

Global variable AnyBoard.

Kind: global variable

- AnyBoard: object
 - o .Driver
 - new AnyBoard.Driver(options)
 - .toString() ⇒ string
 - o .Deck
 - new AnyBoard.Deck(name, jsonDeck)
 - instance
 - .shuffle()
 - .initiate(jsonDeck)
 - .refill([newDeck])
 - .onPlay(func)
 - .onDraw(callback)
 - .toString() ⇒ string
 - static
 - .get(name) \Rightarrow Deck
 - o .Card
 - new AnyBoard.Card(deck, options)
 - instance
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 - .onDraw(callback)
 - .toString() ⇒ string

- static
 - .get(cardTitleOrID) ⇒ Card
- Dices
 - new AnyBoard.Dices([eyes], [numOfDice])
 - .roll() ⇒ number
 - .rollEach() ⇒ Array
- o .Player
 - new AnyBoard.Player(name, [options])
 - instance
 - .pay(resources, [receivingPlayer]) ⇒ boolean
 - .trade(giveResources, receiveResources, [player]) ⇒ boolean
 - .recieve(resourceSet)
 - .draw(deck, [options]) ⇒ Card
 - .play(card, [customOptions]) ⇒ boolean
 - .toString() ⇒ string
 - static
 - .get(name) ⇒ Player
- .Hand
 - new AnyBoard.Hand(player, [options])
 - .has(card, [amount]) ⇒ boolean
 - .discardHand()
 - .discardCard(card)
 - .toString() ⇒ string
- o .Resource
 - new AnyBoard.Resource(name, [properties])
 - .get(name) ⇒ Resource
- ResourceSet
 - new AnyBoard.ResourceSet([resources], [allowNegative])
 - .contains(reqResource) ⇒ boolean
 - .add(resourceSet)
 - .subtract(resourceSet) ⇒ boolean
 - similarities(resourceSet) ⇒ object
- o .BaseToken
 - new AnyBoard.BaseToken(name, address, device, [driver])
 - instance
 - .isConnected() \Rightarrow boolean
 - .connect([win], [fail])
 - .disconnect()
 - .trigger(eventName, [eventOptions])
 - .on(eventName, callbackFunction)
 - .once(eventName, callbackFunction)
 - .send(data, [win], [fail])
 - .print(value, [win], [fail])
 - .getFirmwareName([win], [fail])
 - .getFirmwareVersion([win], [fail])
 - .getFirmwareUUID([win], [fail])
 - .hasLed([win], [fail])
 - .hasLedColor([win], [fail])
 - .hasVibration([win], [fail])
 - .hasColorDetection([win], [fail])
 - .hasLedScreen([win], [fail])
 - .hasRfid([win], [fail])
 - .hasNfc([win], [fail])
 - .hasAccelometer([win], [fail])
 - .hasTemperature([win], [fail])
 - .ledOn(value, [win], [fail])

- .ledBlink(value, [win], [fail])
- .ledOff([win], [fail])
- .toString() ⇒ string
- static
 - .setDefaultDriver(driver) ⇒ boolean
- .Drivers: Object
 - .get(name) ⇒ Driver | undefined
 - .getCompatibleDriver(type, compatibility) ⇒ Driver
- .TokenManager
 - setDriver(driver)
 - .scan([win], [fail], [timeout])
 - .get(address) ⇒ BaseToken
- Logger
 - .warn(message, [sender])
 - .error(message, [sender])
 - .log(message, [sender])
 - .debug(message, [sender])
 - .setThreshold(severity)
- o .Utils
 - .isEqual(a, b, [aStack], [bStack]) ⇒ boolean

AnyBoard.Driver

Kind: static class of AnyBoard

Properties

Name	Туре	Description		
name	string	name of the driver		
description	string	description of the driver		
version	string	version of the driver		
dependencies	string	Text describing what, if anything, the driver depends on.		
date	string	Date upon release/last build.		
type	Array	Array of string describing Type of driver, e.g. "bluetooth"		
compatibility	Array object string	An object or string that can be used to deduce compatibility, or an array different compatibilies.		
properties	object	dictionary that holds custom attributes		

- .Driver
 - new AnyBoard.Driver(options)
 - \circ .toString() \Rightarrow string

new AnyBoard.Driver(options)

Represents a single Driver, e.g. for spesific token or bluetooth discovery

Param Type		Description	
options	object	options for the driver	
options.name	string	name of the driver	
options.description	string	description of the driver	
options.version	string	version of the driver	

options.type	string	Type of driver, e.g. "bluetooth"	
options.compatibility Array object string		An object or string that can be used to deduce compatibility, or an array of different compatibilies. How this is used is determined by the set standard driver on TokenManager that handles scanning for and connecting to tokens.	
[options.dependencies] string		(optional) What if anything the driver depends on.	
[options.date] string		(optional) Date upon release/last build.	
options.yourAttributeHere	any	custom attributes, as well as specified ones, are all placed in driver.properties. E.g. 'heat' would be placed in driver.properties.heat.	

$driver.toString() \Rightarrow string$

Returns a short description of the Driver instance

Kind: instance method of Driver

AnyBoard.Deck

Kind: static class of AnyBoard

Properties

Name	Туре	Description		
name	string	name of Deck.		
cards	Array. <card></card>	complete set of cards in the deck		
pile	Array. <card></card>	remaining cards in this pile		
usedPile	Array. <card></card>	cards played from this deck		
autoUsedRefill	boolean	(default: true) whether or not to automatically refill pile from usedPile when empty. Is ignored if autoNewRefill is true.		
autoNewRefill	boolean	(default: false) whether or not to automatically refill pile with a whole new deck when empty.		
playListeners	Array. <function()></function()>	holds functions to be called when cards in this deck are played		
drawListeners	Array. <function()></function()>	holds functions to be called when cards in this deck are drawn		

- .Deck
 - new AnyBoard.Deck(name, jsonDeck)
 - o instance
 - .shuffle()
 - .initiate(jsonDeck)
 - .refill([newDeck])
 - .onPlay(func)
 - .onDraw(callback)
 - .toString() \Rightarrow string
 - o static
 - .get(name) ⇒ Deck

new AnyBoard.Deck(name, jsonDeck)

Represents a Deck of Cards

Param	Туре	Description		
name	string	name of Deck. This name can be used to retrieve the deck via AnyBoard.Deck.all[name].		
jsonDeck	object	loaded JSON file. See examples/deck-loading/ for JSON format and loading.		

deck.shuffle()

Shuffles the pile of undrawn cards . Pile is automatically shuffled upon construction, and upon initiate(). New cards added upon refill() are also automatically shuffled.

Kind: instance method of Deck

deck.initiate(jsonDeck)

Reads Deck from jsonObject and provides a shuffled version in pile. Is automatically called upon constructing a deck.

Kind: instance method of Deck

Param	Туре	Description
jsonDeck	object	loaded json file. See examples-folder for example of json file and loading

deck.refill([newDeck])

Manually refills the pile. This is not necessary if autoUsedRefill or autoNewRefill property of deck is true.

Kind: instance method of Deck

Param	Туре	Default	Description	
[newDeck]	boolean	false	(default: false) True if to refill with a new deck. False if to refill with played cards (from usedPile)	

deck.onPlay(func)

Adds functions to be executed upon all Cards in this Deck.

Kind: instance method of Deck

Param	Туре	Description		
func	playDrawCallback	callback function to be executed upon play of card from this deck		

deck.onDraw(callback)

Adds functions to be executed upon draw of Card from this Deck

Kind: instance method of Deck

Param	Туре	Description		
callback	playDrawCallback	function to be executed with the 3 parameters AnyBoard.Card, AnyBoard.Player, (options) when cards are drawn		

deck.toString() ⇒ string

Sting representation of a deck

Kind: instance method of Deck

Deck.get(name) ⇒ Deck

Returns deck with given name

Kind: static method of Deck

Returns: Deck - deck with given name (or undefined if non-existent)

Param	Туре	Description
name	string	name of deck

AnyBoard.Card

Kind: static class of AnyBoard

Properties

Name	Туре	Description	
title	string	title of the card.	
description	string	description for the Card	
color	string	color of the Card	
category	string	category of the card, not used by AnyBoard FrameWork	
value	number	value of the card, not used by AnyBoard FrameWork	
type	string	type of the card, not used by AnyBoard FrameWork	
amount	number	amount of this card its deck	
deck	Deck	deck that this card belongs to	
playListeneres	Array	holds functions to be called upon play of this spesific card (before potential playListeners on its belonging deck)	
drawListeners	Array	holds functions to be called upon draw of this spesific card (before potential drawListeners on its belonging deck)	
properties	object	dictionary that holds custom attributes	

.Card

- o new AnyBoard.Card(deck, options)
- o instance
 - .onPlay(func)
 - .onDraw(callback)
 - .toString() ⇒ string
- o static
 - .get(cardTitleOrID) \Rightarrow Card

new AnyBoard.Card(deck, options)

Represents a single Card Should be instantiated in bulk by calling the deck constructor

Param	Туре	Default	Description
deck	Deck		deck to which the card belongs
options	object		options for the card
options.title	string		title of the card.

options.description	string		description for the Card
[options.color]	string		(optional) color of the Card
[options.category]	string		(optional) category of the card, not used by AnyBoard FrameWork
[options.value]	number		(optional) value of the card, not used by AnyBoard FrameWork
[options.type]	string		(optional) type of the card, not used by AnyBoard FrameWork
[options.amount]	number	1	(optional, default: 1) amount of this card in the deck
[options.yourAttributeHere]	any		custom attributes, as well as specified ones, are all placed in card.properties. E.g. 'heat' would be placed in card.properties.heat.

card.onPlay(func)

Adds functions to be executed upon a play of this card

Kind: instance method of Card

Param	Туре	Description
func	playDrawCallback	callback function to be executed upon play of card from this deck

card.onDraw(callback)

Adds functions to be executed upon a draw of this card

Kind: instance method of Card

Param	Туре	Description	
callback	playDrawCallback	function to be executed upon play of card from this deck	

card.toString() ⇒ string

Returns a string representation of the card.

Kind: instance method of Card

Card.get(cardTitleOrID) ⇒ Card

Returns card with given id

Kind: static method of Card

Returns: Card - card with given id (or undefined if non-existent)

Param	Туре	Description
cardTitleOrID	number string	id or title of card

AnyBoard.Dices

Kind: static class of AnyBoard

- .Dices
 - new AnyBoard.Dices([eyes], [numOfDice])
 - \circ .roll() \Rightarrow number
 - o .rollEach() ⇒ Array

new AnyBoard.Dices([eyes], [numOfDice])

Represents a set of game dices that can be rolled to retrieve a random result.

Param	Туре	Default	Description
[eyes]	number	6	(default: 6) number of max eyes on a roll with this dice
[numOfDice]	number	1	(default: 1) number of dices

Example

```
// will create 1 dice, with 6 eyes
var dice = new AnyBoard.Dices();

// will create 2 dice, with 6 eyes
var dice = new AnyBoard.Dices(2, 6);
```

dices.roll() ⇒ number

Roll the dices and returns a the sum

Kind: instance method of Dices

Returns: number - combined result of rolls for all dices

Example

```
var dice = new AnyBoard.Dices();
// returns random number between 1 and 6
dice.roll()
```

Example

```
var dice = new AnyBoard.Dices(2, 6);
// returns random number between 1 and 12
dice.roll()
```

dices.rollEach() ⇒ Array

Roll the dices and returns an array of results for each dice

Kind: instance method of Dices

Returns: Array - list of results for each dice

Example

```
var dice = new AnyBoard.Dices(2, 6);

// returns an Array of numbers
var resultArray = dice.rollEach()

// result of first dice, between 1-6
resultArray[0]

// result of second dice, between 1-6
resultArray[1]
```

AnyBoard.Player

Kind: static class of AnyBoard

Properties

Name	Туре	Description
hand	Hand	hand of cards (Quests)
faction	string	faction (Sp[ecial abilities or perks)
class	string	class (Special abilities or perks)
holds	ResourceSet	the resources belonging to this player
color	string	color representation of player

- .Player
 - o new AnyBoard.Player(name, [options])
 - o instance
 - .pay(resources, [receivingPlayer]) ⇒ boolean
 - .trade(giveResources, receiveResources, [player]) ⇒ boolean
 - .recieve(resourceSet)
 - .draw(deck, [options]) ⇒ Card
 - .play(card, [customOptions]) ⇒ boolean
 - .toString() ⇒ string
 - o static
 - .get(name) ⇒ Player

new AnyBoard.Player(name, [options])

Represents a Player (AnyBoard.Player)

Param	Туре	Description
name	string	name of the player
[options]	object	(optional) options for the player
[options.color]	string	(optional) color representing the player
[options.faction]	string	(optional) faction representing the player
[options.class]	string	(optional) class representing the player
[options.yourAttributeHere]	any	(optional) custom attributes, as well as specified ones, are all placed in player.properties. E.g. 'age' would be placed in player.properties.age.

player.pay(resources, [receivingPlayer]) ⇒ boolean

Take resources from this player and give to receivingPlayer.

Kind: instance method of Player

Returns: boolean - whether or not transaction was completed (false if Player don't hold enough resources)

Param	Туре	Description
resources	ResourceSet	dictionary of resources
[receivingPlayer]	Player	(optional) Who shall receive the resources. Omit if not to anyone (e.g. give to "the bank")

player.trade(giveResources, receiveResources, [player]) ⇒ boolean

Trade resources between players/game

Kind: instance method of Player

Returns: boolean - whether or not transaction was completed (false if Player don't hold enough resources)

Param	Туре	Description
giveResources	ResourceSet	resources this player shall give
receiveResources	ResourceSet	resources this player receieves
[player]	Player	(optional) Who shall be traded with. Omit if not to a player, but to "the bank".

Example

```
new AnyBoard.Resource("gold");
new AnyBoard.Resource("silver");

var startTreasure = new AnyBoard.ResourceSet({"gold": 6, "silver": 42});
var goldTreasure = new AnyBoard.ResourceSet({"gold": 2});
var silverTreasure = new AnyBoard.ResourceSet({"silver": 12});

var dr1 = new AnyBoard.Player("firstDoctor");
var dr2 = new AnyBoard.Player("secondDoctor");

dr1.receive(startTreasure);
dr2.receive(startTreasure);
// returns true. dr1 will now own {"gold": 4, "silver": 54}. dr2 owns {"gold": 8, "silver": 30}
dr1.trade(goldTreasure, silverTreasure, dr2)
```

Example

```
// returns true. dr1 will now own {"gold": 2, "silver": 66}. dr2 still owns {"gold": 8, "silver": 30}
dr1.trade(goldTreasure, silverTreasure)
```

Example

```
var firstOverlappingTreasure = new AnyBoard.ResourceSet({"silver": 115, "gold": "6"});
var secondOverlappingTreasure= new AnyBoard.ResourceSet({"silver": 100, "gold": "7"});

// returns true. The trade nullifies the similarities, so that the trade can go through even though
// dr1 has < 100 silver
dr1.trade(firstOverlappingTreasure, secondOverlappingTreasure)</pre>
```

player.recieve(resourceSet)

Receive resource from bank/game. Use pay() when receiving from players.

Kind: instance method of Player

Param	Туре	Description
resourceSet	ResourceSet	resources to be added to this players bank

```
new AnyBoard.Resource("gold");
new AnyBoard.Resource("silver");

var startTreasure = new AnyBoard.ResourceSet({"gold": 6, "silver": 42});
var secondTresure = new AnyBoard.ResourceSet({"silver": 12, "copper": 122});

var dr1 = new AnyBoard.Player("firstDoctor"); // player owns nothing initially
```

```
dr1.receive(startTreasure); // owns {"gold": 6, "silver": 42}
dr1.receive(secondTresure); // owns {"gold": 6, "silver": 54, "copper": 122}
```

player.draw(deck, [options]) ⇒ Card

Draws a card from a deck and puts it in the hand of the player

Kind: instance method of Player **Returns**: Card - card that is drawn

Param	Туре	Description	
deck	Deck	deck to be drawn from	
[options]	object	(optional) parameters to be sent to the drawListeners on the deck	

Example

```
var dr1 = new AnyBoard.Player("firstDoctor"); // player has no cards initially

// Now has one card
dr1.draw(deck);

// Now has two cards. option parameter is being passed on to any drawListeners (See Deck/Card)
dr1.draw(deck, options);
```

player.play(card, [customOptions]) ⇒ boolean

Plays a card from the hand. If the hand does not contain the card, the card is not played and the hand unchanged.

Kind: instance method of Player

Returns: boolean - whether or not the card was played

Param	Туре	Description
card	Card	card to be played
[customOptions]	object	(optional) custom options that the play should be played with

Example

```
var DrWho = new AnyBoard.Player("firstDoctor"); // player has no cards initially

// Store the card that was drawn
var card = DrWho.draw(existingDeck);

// Play that same card
DrWho.play(card)
```

player.toString() ⇒ string

Returns a string representation of the player

Kind: instance method of Player

Player.get(name) ⇒ Player

Returns player with given name

Kind: static method of Player

Returns: Player - player with given name (or undefined if non-existent)

Param	Туре	Description
name	string	name of player

AnyBoard.Hand

Kind: static class of AnyBoard

- .Hand
 - o new AnyBoard.Hand(player, [options])
 - has(card, [amount]) ⇒ boolean
 - .discardHand()
 - .discardCard(card)
 - o .toString() ⇒ string

new AnyBoard.Hand(player, [options])

Represents a Hand of a player, containing cards. Players are given one Hand in Person constructor.

Param	Туре	Description
player	Player	player to which this hand belongs
[options]	object	(optional) custom properties added to this hand

hand.has(card, [amount]) ⇒ boolean

Checks whether or not a player has an amount card in this hand.

Kind: instance method of Hand

Returns: boolean - hasCard whether or not the player has that amount or more of that card in this hand

Param	Туре	Default	Description
card	Card		card to be checked if is in hand
[amount]	number	1	(default: 1) amount of card to be checked if is in hand

Example

```
var DrWho = new AnyBoard.Player("firstDoctor"); // player has no cards initially

// Store the card that was drawn
var tardis = DrWho.draw(tardisDeck);

// returns true
DrWho.hand.has(card)

// returns false, as he has only one
DrWho.hand.has(card, 3)
```

hand.discardHand()

Discard the entire hand of the player, leaving him with no cards

Kind: instance method of Hand

hand.discardCard(card)

Discard a card from the hand of the player

Kind: instance method of Hand

Param	Туре	Description
card	Card	card to be discarded.

hand.toString() ⇒ string

Returns a string representation of the hand

Kind: instance method of Hand

AnyBoard.Resource

Kind: static class of AnyBoard

Properties

Name	Туре	Description
name	string	name of resource
properties	any	custom options added to resource

- .Resource
 - o new AnyBoard.Resource(name, [properties])
 - o .get(name) ⇒ Resource

new AnyBoard.Resource(name, [properties])

Represents a simple resource (AnyBoard.Resource)

Param	Туре	Description
name	string	name representing the resource
[properties]	object	(optional) custom properties of this resource

Example

```
var simpleGold = new AnyBoard.Resource("gold");

// The optional properties parameter can be of any type.
var advancedPowder = new AnyBoard.Resource("powder", {"value": 6, "color": "blue"});

// 6
advancedPowder.properties.value
```

Resource.get(name) ⇒ Resource

Returns resource with given name

Kind: static method of Resource

Returns: Resource - resource with given name (or undefined if non-existent)

Param	Туре	Description
name	string	name of resource

```
var simpleGold = new AnyBoard.Resource("gold");
// returns simpleGold
AnyBoard.Resource.get("gold");
```

AnyBoard.ResourceSet

Kind: static class of AnyBoard

Properties

Name	Туре	Default	Description
resources	object		(optional) a set of initially contained resources
allowNegative	boolean	false	(default: false) whether or not to allow being subtracted resources to below 0 (dept)

- ResourceSet
 - o new AnyBoard.ResourceSet([resources], [allowNegative])
 - o .contains(reqResource) ⇒ boolean
 - add(resourceSet)
 - subtract(resourceSet) ⇒ boolean
 - similarities(resourceSet) ⇒ object

new AnyBoard.ResourceSet([resources], [allowNegative])

Creates a ResourceSet

Param	Туре	Default	Description
[resources]	object		(optional) a set of initially contained resources
[allowNegative]	boolean	false	(default: false) whether or not to allow being subtracted resources to below 0 (dept)

Example

```
// Returns a resourceset that can be deducted below 0
var debtBank = new AnyBoard.ResourceSet({}, true);
```

resourceSet.contains(reqResource) ⇒ boolean

Whether or not a ResourceSet contains another ResourceSet

Kind: instance method of ResourceSet

Returns: boolean - true if this ResourceSet contains reqResource, else false

Param	Туре	Description
reqResource ResourceSet		ResourceSet to be compared against

```
new AnyBoard.Resource("gold");
new AnyBoard.Resource("silver");

var myTreasure = new AnyBoard.ResourceSet({"gold": 6, "silver": 42});
var minorDebt = new AnyBoard.ResourceSet({"gold": 1, "silver": 3});
var hugeDebt = new AnyBoard.ResourceSet({"gold": 12, "silver": 41});

// returns true
myTreasure.contains(minorDebt);

// returns false
myTreasure.contains(hugeDebt);
```

resourceSet.add(resourceSet)

Adds a ResourceSet to this one

Kind: instance method of ResourceSet

Param	Туре	Description
resourceSet	ResourceSet	ResourceSet to be added to this one

Example

```
new AnyBoard.Resource("gold");
new AnyBoard.Resource("silver");

var myTreasure = new AnyBoard.ResourceSet({"gold": 6, "silver": 42});
var minorGift = new AnyBoard.ResourceSet({"silver": 2});

myTreasure.add(minorGift);
// myTreasure is now {"gold": 6, "silver": 45}
```

resourceSet.subtract(resourceSet) ⇒ boolean

Subtracts a dictionary of resources and amounts to a ResourceSet

Kind: instance method of ResourceSet

Returns: boolean - whether or not resources were subtracted successfully

Param	Туре	Description
resourceSet	ResourceSet	set of resources to be subtracted

Example

```
new AnyBoard.Resource("gold");
new AnyBoard.Resource("silver");

var myTreasure = new AnyBoard.ResourceSet({"gold": 6, "silver": 42});
var minorGift = new AnyBoard.ResourceSet({"silver": 2});
var debtBank = new AnyBoard.ResourceSet({}, true);
var cosyBank = new AnyBoard.ResourceSet();

// returns true. myTreasure becomes {"gold": 6, "silver": 40}
myTreasure.subtract(minorGift);

// returns true. debtbank becomes {"silver": -2}
debtBank.subtract(minorGift);

// returns false and leaves cosyBank unchanged
cosyBank.subtract(minorGift);
```

resourceSet.similarities(resourceSet) ⇒ object

Returns the common resources and minimum amount between a dictionary of resources and amounts, and this ResourceSet

Kind: instance method of ResourceSet

Returns: object - similarities dictionary of common resources and amounts

Param	Туре	Description
resourceSet	ResourceSet	dictionary of resources and amounts to be compared against

Example

```
new AnyBoard.Resource("gold");
new AnyBoard.Resource("silver");

var myTreasure = new AnyBoard.ResourceSet({"gold": 6, "silver": 42});
var otherTresure = new AnyBoard.ResourceSet({"silver": 2, "bacon": 12});

// returns {"silver": 2}
myTreasure.similarities(otherTresure);
```

AnyBoard.BaseToken

Kind: static class of AnyBoard

Properties

Name	Туре	Description
name	string	name of the token
address	string	address of the token found when scanned
connected	boolean	whether or not the token is connected
device	object	driver spesific data.
listeners	object	functions to be execute upon certain triggered events
onceListeners	object	functions to be execute upon next triggering of certain events
sendQueue	Array. <function()></function()>	queue for communicating with
cache	object	key-value store for caching certain communication calls
driver	Driver	driver that handles communication

.BaseToken

- o new AnyBoard.BaseToken(name, address, device, [driver])
- o instance
 - .isConnected() ⇒ boolean
 - .connect([win], [fail])
 - .disconnect()
 - .trigger(eventName, [eventOptions])
 - .on(eventName, callbackFunction)
 - .once(eventName, callbackFunction)
 - .send(data, [win], [fail])
 - .print(value, [win], [fail])
 - .getFirmwareName([win], [fail])
 - .getFirmwareVersion([win], [fail])
 - .getFirmwareUUID([win], [fail])
 - .hasLed([win], [fail])
 - .hasLedColor([win], [fail])
 - .hasVibration([win], [fail])
 - .hasColorDetection([win], [fail])
 - .hasLedScreen([win], [fail])
 - .hasRfid([win], [fail])
 - .hasNfc([win], [fail])
 - .hasAccelometer([win], [fail])
 - .hasTemperature([win], [fail])
 - .ledOn(value, [win], [fail])
 - .ledBlink(value, [win], [fail])

- .ledOff([win], [fail])
- .toString() ⇒ string
- o static
 - .setDefaultDriver(driver) ⇒ boolean

new AnyBoard.BaseToken(name, address, device, [driver])

Base class for tokens. Should be used by communication driver upon AnyBoard.TokenManager.scan()

Param	Туре	Default	Description
name	string		name of the token
address	string		address of the token found when scanned
device	object		device object used and handled by driver
[driver]	Driver	AnyBoard.BaseTokendefaultDriver	token driver for handling communication with it.

baseToken.isConnected() ⇒ boolean

Returns whether or not the token is connected

Kind: instance method of BaseToken

Returns: boolean - true if connected, else false

baseToken.connect([win], [fail])

Attempts to connect to token. Uses TokenManager driver, not its own, since connect needs to happen before determining suitable driver.

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdNoParamCallback	(optional) function to be executed upon success
[fail]	stdErrorCallback	(optional) function to be executed upon failure

baseToken.disconnect()

Disconnects from the token.

Kind: instance method of BaseToken

baseToken.trigger(eventName, [eventOptions])

Trigger an event on a token

Kind: instance method of BaseToken

Param	Туре	Description
eventName	string	name of event
[eventOptions]	object	(optional) dictionary of parameters and values

```
var onTimeTravelCallback = function (options) {console.log("The tardis is great!")};
existingToken.on('timeTravelled', onTimeTravelCallback);

// Triggers the function, and prints praise for the tardis
existingToken.trigger('timeTravelled');
```

```
existingToken.trigger('timeTravelled');  // prints again
existingToken.trigger('timeTravelled');  // prints again
```

baseToken.on(eventName, callbackFunction)

Adds a callbackFunction to be executed always when event is triggered

Kind: instance method of BaseToken

Param	Туре	Description
eventName	string	name of event to listen to
callbackFunction	simpleTriggerCallback	function to be executed

Example

```
var onTimeTravelCallback = function () {console.log("The tardis is great!")};
existingToken.on('timeTravelled', onTimeTravelCallback);

// Triggers the function, and prints praise for the tardis
existingToken.trigger('timeTravelled');

existingToken.trigger('timeTravelled'); // prints again
existingToken.trigger('timeTravelled'); // prints again
```

Example

```
var onTimeTravelCallback = function (options) {
    // Options can be left out of a trigger. You should therefore check
    // that input is as expected, throw an error or give a default value
    var name = (options && options.name ? options.name : "You're");

    console.log(options.name + " is great!");
};
existingToken.on('timeTravelled', onTimeTravelCallback);

// prints "Dr.Who is great!"
existingToken.trigger('timeTravelled', {"name": "Dr.Who"});

// prints "You're great!"
existingToken.trigger('timeTravelled');
```

baseToken.once(eventName, callbackFunction)

Adds a callbackFunction to be executed next time an event is triggered

Kind: instance method of BaseToken

Param	Туре	Description
eventName	string	name of event to listen to
callbackFunction	simpleTriggerCallback	function to be executed

```
var onTimeTravelCallback = function (options) {console.log("The tardis is great!")};
existingToken.once('timeTravelled', onTimeTravelCallback);

// Triggers the function, and prints praise for the tardis
existingToken.trigger('timeTravelled');
```

```
// No effect
existingToken.trigger('timeTravelled');
```

baseToken.send(data, [win], [fail])

Sends data to the token. Uses either own driver, or (if not set) TokenManager driver

Kind: instance method of BaseToken

Param	Туре	Description
data	Uint8Array ArrayBuffer String	data to be sent
[win]	stdNoParamCallback	(optional) function to be executed upon success
[fail]	stdErrorCallback	(optional) function to be executed upon error

baseToken.print(value, [win], [fail])

Prints to Token

String can have special tokens to signify some printer command, e.g. ##n = newLine. Refer to the individual driver for token spesific implementation and capabilities

Kind: instance method of BaseToken

Param	Туре	Description
value	string	
[win]	stdNoParamCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.getFirmwareName([win], [fail])

Gets the name of the firmware type of the token

 $\textbf{Kind:} \ instance \ method \ of \ \ {\tt BaseToken}$

Param	Туре	Description
[win]	stdStringCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

Example

```
// Function to be executed upon name retrieval
var getNameCallback = function (name) {console.log("Firmware name: " + name)};

// Function to be executed upon failure to retrieve name
var failGettingNameCallback = function (name) {console.log("Couldn't get name :(")};

existingToken.getFirmwareName(getNameCallback, failGettingNameCallback);

// Since it's asyncronous, this will be printed before the result
console.log("This comes first!")
```

baseToken.getFirmwareVersion([win], [fail])

Gets the version of the firmware type of the token

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdStringCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.getFirmwareUUID([win], [fail])

Gets a uniquie ID the firmware of the token

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdStringCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasLed([win], [fail])

Checks whether or not the token has simple LED

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasLedColor([win], [fail])

Checks whether or not the token has colored LEDs

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasVibration([win], [fail])

Checks whether or not the token has vibration

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasColorDetection([win], [fail])

Checks whether or not the token has ColorDetection

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution

[fail] stdErrorCallback (optional) callback function to be executed upon failure

baseToken.hasLedScreen([win], [fail])

Checks whether or not the token has LedSceen

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasRfid([win], [fail])

Checks whether or not the token has RFID reader

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasNfc([win], [fail])

Checks whether or not the token has NFC reader

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasAccelometer([win], [fail])

Checks whether or not the token has Accelometer

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.hasTemperature([win], [fail])

Checks whether or not the token has temperature measurement

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdBoolCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon failure

baseToken.ledOn(value, [win], [fail])

Sets color on token

Kind: instance method of BaseToken

Param	Туре	Description
value	string Array	string with color name or array of [red, green, blue] values 0-255
[win]	stdNoParamCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon

Example

```
// sets Led to white
existingToken.ledOn([255, 255, 255]);

// sets Led to white (See driver implementation for what colors are supported)
existingToken.ledOn("white");
```

baseToken.ledBlink(value, [win], [fail])

tells token to blink its led

Kind: instance method of BaseToken

Param	Туре	Description
value	string Array	string with color name or array of [red, green, blue] values 0-255
[win]	stdNoParamCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon

Example

```
// blinks red
existingToken.ledBlink([255, 0, 0]);
// blinks blue
existingToken.ledBlink("blue");
```

baseToken.ledOff([win], [fail])

Turns LED off

Kind: instance method of BaseToken

Param	Туре	Description
[win]	stdNoParamCallback	(optional) callback function to be called upon successful execution
[fail]	stdErrorCallback	(optional) callback function to be executed upon

baseToken.toString() ⇒ string

Representational string of class instance.

Kind: instance method of BaseToken

BaseToken.setDefaultDriver(driver) ⇒ boolean

Sets a new default driver to handle communication for tokens without specified driver. The driver must have implement

a method send(win, fail) in order to discover tokens.

Kind: static method of BaseToken

Returns: boolean - whether or not driver was successfully set

Param	Туре	Description
driver	Driver	driver to be used for communication

AnyBoard.Drivers: Object

Manager of drivers.

Kind: static property of AnyBoard

- .Drivers: Object
 - \circ .get(name) \Rightarrow Driver | undefined
 - getCompatibleDriver(type, compatibility) ⇒ Driver

Drivers.get(name) ⇒ Driver | undefined

Returns driver with given name

Kind: static method of Drivers

Returns: Driver | undefined - driver with given name (or undefined if non-existent)

Param	Туре	Description
name	string	name of driver

Example

```
var discoveryBluetooth = new AnyBoard.Driver({
    name: 'theTardisMachine',
    description: 'bla bla',
    version: '1.0',
    type: ['bluetooth-discovery', 'bluetooth'],
    compatibility: ['tardis', 'pancakes']
    });

// Returns undefined
AnyBoard.Drivers.get("non-existant-driver")

// Returns driver
AnyBoard.Drivers.get("theTardisMachine")
```

Drivers.getCompatibleDriver(type, compatibility) ⇒ Driver

Returns first driver of certain type that matches the given compatibility.

Kind: static method of Drivers

Returns: Driver - compatible driver (or undefined if non-existent)

Param	Туре	Description
type	string	name of driver
compatibility	string object	name of driver

```
var discoveryBluetooth = new AnyBoard.Driver({
```

```
name: 'theTardisMachine',
    description: 'bla bla',
    version: '1.0',
    type: ['bluetooth-discovery', 'bluetooth'],
    compatibility: ['tardis', {"show": "Doctor Who"}]
    });

// Returns undefined (right type, wrong compatibility)
AnyBoard.Drivers.getCompatibleDriver('bluetooth', 'weirdCompatibility');

// Returns undefined (wrong type, right compatibility)
AnyBoard.Drivers.getCompatibleDriver('HTTP, {"service": "iCanTypeAnyThingHere"});

// Returns discoveryBluetooth driver
AnyBoard.Drivers.getCompatibleDriver('bluetooth', 'tardis');
```

AnyBoard.TokenManager

A token manager. Holds all tokens. Discovers and connects to them.

Kind: static property of AnyBoard

Properties

Name	Туре	Description
tokens	object	dictionary of connect tokens that maps id to object
driver	Driver	driver for communication with tokens. Set with setDriver(driver);

- .TokenManager
 - setDriver(driver)
 - o .scan([win], [fail], [timeout])
 - \circ .get(address) \Rightarrow BaseToken

TokenManager.setDriver(driver)

Sets a new default driver to handle communication for tokens without specified driver. The driver must have implemented methods scan(win, fail, timeout) connect(token, win, fail) and disconnect(token, win, fail), in order to discover tokens.

Kind: static method of TokenManager

Param	Туре	Description
driver	Driver	driver to be used for communication

TokenManager.scan([win], [fail], [timeout])

Scans for tokens nearby and stores in discoveredTokens property

Kind: static method of TokenManager

Param	Туре	Description
[win]	onScanCallback	(optional) function to be executed when devices are found (called for each device found)
[fail]	stdErrorCallback	(optional) function to be executed upon failure
[timeout]	number	(optional) amount of milliseconds to scan before stopping. Driver has a default.

```
var onDiscover = function(token) { console.log("I found " + token) };

// Scans for tokens. For every token found, it prints "I found ...")
TokenManager.scan(onDiscover);
```

TokenManager.get(address) ⇒ BaseToken

Returns a token handled by this TokenManager

Kind: static method of TokenManager

Returns: BaseToken - token if handled by this tokenManager, else undefined

Param	Туре	Description
address	string	identifer of the token found when scanned

AnyBoard.Logger

Static logger object that handles logging. Will log using hyper.log if hyper is present (when using Evothings). Will then log all events, regardless of severity

Kind: static property of AnyBoard

Properties

Name	Туре	Description
threshold	number	(default: 10) threshold on whether or not to log an event. Any message with level above or equal threshold will be logged
debugLevel	number	(value: 0) sets a threshold for when a log should be considered a debug log event.
normalLevel	number	(value: 10) sets a threshold for when a log should be considered a normal log event.
warningLevel	number	(value: 20) sets a threshold for when a log should be considered a warning.
errorLevel	number	(value: 30) sets a threshold for when a log should be considered a fatal error.
loggerObject	object	(default: console) logging method. Must have implemented .debug(), .log(), .warn() and .error()

- Logger
 - o .warn(message, [sender])
 - .error(message, [sender])
 - o .log(message, [sender])
 - o .debug(message, [sender])
 - setThreshold(severity)

Logger.warn(message, [sender])

logs a warning. Ignored if threshold > this.warningLevel (default: 20)

Kind: static method of Logger

Param	Туре	Description
message	string	event to be logged
[sender]	object	(optional) sender of the message

Logger.error(message, [sender])

logs an error. Will never be ignored.

Kind: static method of Logger

Param	Туре	Description
message	string	event to be logged
[sender]	object	(optional) sender of the message

Logger.log(message, [sender])

logs a normal event. Ignored if threshold > this.normalLevel (default: 10)

Kind: static method of Logger

Param	Туре	Description
message	string	event to be logged
[sender]	object	(optional) sender of the message

Logger.debug(message, [sender])

logs debugging information. Ignored if threshold > this.debugLevel (default: 0)

Kind: static method of Logger

Param	Туре	Description
message	string	event to be logged
[sender]	object	(optional) sender of the message

Logger.setThreshold(severity)

Sets threshold for logging

Kind: static method of Logger

Param	Туре	Description
severity	number	a message has to have before being logged

Example

```
// By default, debug doesn't log
AnyBoard.debug("Hi") // does not log
```

Example

```
// But you can lower the thresholdlevel
AnyBoard.Logger.setThreshold(AnyBoard.Logger.debugLevel)
AnyBoard.debug("I'm here afterall!") // logs
```

Example

```
// Or increase it to avoid certain logging
AnyBoard.Logger.setThreshold(AnyBoard.Logger.errorLevel)
AnyBoard.warn("The tardis has arrived!") // does not log
```

```
// But you can never avoid errors
AnyBoard.Logger.setThreshold(AnyBoard.Logger.errorLevel+1)
AnyBoard.error("The Doctor is dead!!") // logs
```

AnyBoard.Utils

Utility functions for AnyBoard

Kind: static property of AnyBoard

Utils.isEqual(a, b, [aStack], [bStack]) ⇒ boolean

Returns whether or not two objects are equal. Works with objects, dictionaries, and arrays as well.

Kind: static method of Utils

Returns: boolean - whether or not the items were equal

Param	Туре	Description
а	object Array String number boolean	item to compare
b	object Array String number boolean	item to compare against a
[aStack]	Array	(optional) array of items to further compare
[bStack]	Array	(optional) array of items to further compare

Example

```
var tardis = {"quality": "awesome"}
var smardis = {"quality": "shabby"}
var drWhoCar = {"quality": "awesome"}

// Returns true
AnyBoard.Utils.isEqual(tardis, drWhoCar)

// Returns false
AnyBoard.Utils.isEqual(tardis, smardis)
```

playDrawCallback: function

This type of callback will be called when card is drawn or played

Kind: global typedef

Param	Туре	Description	
card	Card	that is played	
player Player that played th		that played the card	
[options]	ions] object (optional) custom options as extra parameter when AnyBoard.Pla		

simpleTriggerCallback: function

Type of callback called upon triggering of events

Kind: global typedef

Param Type	Description
------------	-------------

event	string	name of event	
[options]	object	(optional) options called with the triggering of that event	

stdStringCallback: function

Generic callback returning a string param

Kind: global typedef

Param	Туре	
string	string	

stdBoolCallback: function

Generic callback returning a bool param

Kind: global typedef

Param	Туре
boolean	boolean

stdNoParamCallback: function

Generic callback without params

Kind: global typedef

onScanCallback: function

Type of callback called upon detecting a token

Kind: global typedef

Param	Туре	Description
token	BaseToken	discovered token

stdErrorCallback: function

This type of callback will be called upon failure to complete a function

Kind: global typedef

Param	Туре
errorMessage	string