

Namespace BP.AdventureFramework. Assets

Classes

[ConditionalDescription](#)

Represents a conditional description of an object.

[Description](#)

Represents a description of an object.

[ExaminableObject](#)

Represents an object that can be examined.

[ExaminationResult](#)

Represents the result of an examination.

[Identifier](#)

Provides a class that can be used as an identifier.

[Item](#)

Represents an item that can be used within the game.

Structs

[Size](#)

Represents a size.

Interfaces

[IExaminable](#)

Represents any object that is examinable.

[IPlayerVisible](#)

Represents any object that is visible to a player.

Delegates

[ExaminationCallback](#)

Represents the callback for examinations.

Class ConditionalDescription

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents a conditional description of an object.

```
public sealed class ConditionalDescription : Description
```

Inheritance

[object](#) ← [Description](#) ← ConditionalDescription

Inherited Members

[Description.Empty](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ConditionalDescription(string, string, Condition)

Initializes a new instance of the ConditionalDescription class.

```
public ConditionalDescription(string trueDescription, string falseDescription,  
Condition condition)
```

Parameters

trueDescription [string](#)

The true description.

falseDescription [string](#)

The false description.

condition [Condition](#)

The condition.

Properties

Condition

Get or set the condition

```
public Condition Condition { get; set; }
```

Property Value

[Condition](#)

Represents a conditional description of an object.

Methods

GetDescription()

Get the description.

```
public override string GetDescription()
```

Returns

[string](#)

The description.

Class Description

Namespace: [BP.AdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents a description of an object.

```
public class Description
```

Inheritance

[object](#) ← Description

Derived

[ConditionalDescription](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

Description(string)

Initializes a new instance of the Description class

```
public Description(string description)
```

Parameters

description [string](#)

The description

Properties

DefaultDescription

Get or set the description.

```
protected string DefaultDescription { get; set; }
```

Property Value

[string](#)

Represents a description of an object.

Empty

Get an empty description.

```
public static Description Empty { get; }
```

Property Value

[Description](#)

Represents a description of an object.

Methods

GetDescription()

Get the description.

```
public virtual string GetDescription()
```

Returns

[string](#)

The description.

Class ExaminableObject

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents an object that can be examined.

```
public class ExaminableObject : IExaminable, IPlayerVisible
```

Inheritance

[object](#) ← ExaminableObject

Implements

[IExaminable](#), [IPlayerVisible](#)

Derived

[Character](#), [Item](#), [Exit](#), [Overworld](#), [Region](#), [Room](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#),
[object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Properties

Commands

Get or set this objects commands.

```
public CustomCommand[] Commands { get; set; }
```

Property Value

[CustomCommand\[\]](#)

Represents an object that can be examined.

Description

Get or set a description of this object.

```
public Description Description { get; set; }
```

Property Value

[Description](#)

Represents an object that can be examined.

Examination

Get or set the callback handling all examination of this object.

```
public ExaminationCallback Examination { get; set; }
```

Property Value

[ExaminationCallback](#)

Represents an object that can be examined.

Identifier

Get this objects identifier.

```
public Identifier Identifier { get; protected set; }
```

Property Value

[Identifier](#)

Represents an object that can be examined.

IsPlayerVisible

Get or set if this is visible to the player.

```
public bool IsPlayerVisible { get; set; }
```

Property Value

[bool](#)

Represents an object that can be examined.

Methods

Examine()

Examine this object.

```
public virtual ExaminationResult Examine()
```

Returns

[ExaminationResult](#)

A ExaminationResult detailing the examination of this object.

ToString()

Returns a string that represents the current object.

```
public override string ToString()
```

Returns

[string](#)

A string that represents the current object.

Delegate ExaminationCallback

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents the callback for examinations.

```
public delegate ExaminationResult ExaminationCallback(IExaminable obj)
```

Parameters

obj [IExaminable](#)

The object to examine.

Returns

[ExaminationResult](#)

A string representing the result of the examination.

Class ExaminationResult

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents the result of an examination.

```
public class ExaminationResult : Result
```

Inheritance

[object](#) ← [Result](#) ← ExaminationResult

Inherited Members

[Result.Description](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ExaminationResult(string)

Initializes a new instance of the ExaminationResult class.

```
public ExaminationResult(string description)
```

Parameters

description [string](#)

A description of the result.

Interface IExaminable

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents any object that is examinable.

```
public interface IExaminable : IPlayerVisible
```

Inherited Members

[IPlayerVisible.IsPlayerVisible](#)

Properties

Commands

Get or set this objects commands.

```
CustomCommand[] Commands { get; set; }
```

Property Value

[CustomCommand\[\]](#)

Represents any object that is examinable.

Description

Get or set a description of this object.

```
Description Description { get; set; }
```

Property Value

[Description](#)

Represents any object that is examinable.

Identifier

Get this objects identifier.

```
Identifier Identifier { get; }
```

Property Value

[Identifier](#)

Represents any object that is examinable.

Methods

Examine()

Examine this object.

```
ExaminationResult Examine()
```

Returns

[ExaminationResult](#)

A ExaminationResult detailing the examination of this object.

Interface IPlayerVisible

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents any object that is visible to a player.

```
public interface IPlayerVisible
```

Properties

IsPlayerVisible

Get or set if this is visible to the player.

```
bool IsPlayerVisible { get; set; }
```

Property Value

[bool](#) ↗

Represents any object that is visible to a player.

Class Identifier

Namespace: [BP.AdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Provides a class that can be used as an identifier.

```
public class Identifier : IEquatable<string>, IEquatable<Identifier>
```

Inheritance

[object](#) ← Identifier

Implements

[IEquatable](#)<[string](#)>, [IEquatable](#)<[Identifier](#)>

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

Constructors

Identifier(string)

Creates a new instance of the Identifier class.

```
public Identifier(string name)
```

Parameters

name [string](#)

The name.

Properties

Empty

Get an empty identifier.

```
public static Identifier Empty { get; }
```

Property Value

[Identifier](#)

Provides a class that can be used as an identifier.

IdentifiableName

Get the name as a case insensitive identifier.

```
public string IdentifiableName { get; }
```

Property Value

[string](#)

Provides a class that can be used as an identifier.

Name

Get the name.

```
public string Name { get; }
```

Property Value

[string](#)

Provides a class that can be used as an identifier.

Methods

Equals(Identifier)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(Identifier other)
```

Parameters

`other` [Identifier](#)

An object to compare with this object.

Returns

[bool](#)

[true](#) if the current object is equal to the `other` parameter; otherwise, [false](#).

Equals(string)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(string other)
```

Parameters

`other` [string](#)

An object to compare with this object.

Returns

[bool](#)

[true](#) if the current object is equal to the `other` parameter; otherwise, [false](#).

ToIdentifiableString(string)

Convert a string to an identifiable string.

```
protected string ToIdentifiableString(string value)
```

Parameters

value [string](#)

The value to convert.

Returns

[string](#)

The identifiable string.

ToString()

Returns a string that represents the current object.

```
public override string ToString()
```

Returns

[string](#)

A string that represents the current object.

Class Item

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents an item that can be used within the game.

```
public sealed class Item : ExaminableObject, IExaminable,  
IPlayerVisible, IInteractWithItem
```

Inheritance

[object](#) ← [ExaminableObject](#) ← Item

Implements

[IExaminable](#), [IPlayerVisible](#), [IInteractWithItem](#)

Inherited Members

[ExaminableObject.Examination](#) , [ExaminableObject.ToString\(\)](#) ,
[ExaminableObject.Identifier](#) , [ExaminableObject.Description](#) ,
[ExaminableObject.Commands](#) , [ExaminableObject.Examine\(\)](#) ,
[ExaminableObject.IsPlayerVisible](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

Constructors

Item(Identifier, Description, bool)

Initializes a new instance of the Item class.

```
public Item(Identifier identifier, Description description, bool isTakeable = false)
```

Parameters

identifier [Identifier](#)

This Items identifier.

description [Description](#)

A description of this Item.

[isTakeable](#) [bool](#)

Specify if this item is takeable.

Item(string, string, bool)

Initializes a new instance of the Item class.

```
public Item(string identifier, string description, bool isTakeable = false)
```

Parameters

[identifier](#) [string](#)

This Items identifier.

[description](#) [string](#)

A description of this Item.

[isTakeable](#) [bool](#)

Specify if this item is takeable.

Properties

Interaction

Get or set the interaction.

```
public InteractionCallback Interaction { get; set; }
```

Property Value

[InteractionCallback](#)

Represents an item that can be used within the game.

IsTakeable

Get or set if this is takeable.

```
public bool IsTakeable { get; }
```

Property Value

[bool](#)

Represents an item that can be used within the game.

Methods

Interact(Item)

Interact with an item.

```
public InteractionResult Interact(Item item)
```

Parameters

[item](#) [Item](#)

The item to interact with.

Returns

[InteractionResult](#)

The result of the interaction.

Morph(Item)

Handle item morphing.

```
public void Morph(Item item)
```

Parameters

item [Item](#)

The item to morph into.

Use(IInteractWithItem)

Use this item on a target.

```
public InteractionResult Use(IInteractWithItem target)
```

Parameters

target [IInteractWithItem](#)

The target to use the item on.

Returns

[InteractionResult](#)

Represents an item that can be used within the game.

Struct Size

Namespace: [BPAdventureFramework.Assets](#)

Assembly: BP.AdventureFramework.dll

Represents a size.

```
public struct Size
```

Inherited Members

[ValueType.Equals\(object\)](#) , [ValueType.GetHashCode\(\)](#) , [ValueType.ToString\(\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#)

Constructors

Size(int, int)

Initializes a new instance of the Size struct.

```
public Size(int width, int height)
```

Parameters

width [int](#)

The width.

height [int](#)

The height.

Properties

Height

Get the height.

```
public int Height { get; }
```

Property Value

[int](#)

Represents a size.

Width

Get the width.

```
public int Width { get; }
```

Property Value

[int](#)

Represents a size.

Namespace BP.AdventureFramework. Assets.Characters

Classes

[Character](#)

Represents a generic in game character.

[NonPlayableCharacter](#)

Represents a non-playable character.

[PlayableCharacter](#)

Represents a playable character.

Interfaces

[IConverser](#)

Represents an object that can converse.

Class Character

Namespace: [BPAdventureFramework.Assets.Characters](#)

Assembly: BP.AdventureFramework.dll

Represents a generic in game character.

```
public abstract class Character : ExaminableObject, IExaminable,  
IPlayerVisible, IInteractWithItem
```

Inheritance

[object](#) ← [ExaminableObject](#) ← Character

Implements

[IExaminable](#), [IPlayerVisible](#), [IInteractWithItem](#)

Derived

[NonPlayableCharacter](#), [PlayableCharacter](#)

Inherited Members

[ExaminableObject.Examination](#) , [ExaminableObject.ToString\(\)](#) ,
[ExaminableObject.Identifier](#) , [ExaminableObject.Description](#) ,
[ExaminableObject.Commands](#) , [ExaminableObject.Examine\(\)](#) ,
[ExaminableObject.IsPlayerVisible](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#)

Properties

Interaction

Get or set the interaction.

```
public InteractionCallback Interaction { get; set; }
```

Property Value

[InteractionCallback](#)

Represents a generic in game character.

IsAlive

Get if this character is alive.

```
public bool IsAlive { get; protected set; }
```

Property Value

[bool](#) ↗

Represents a generic in game character.

Items

Get the items this Character holds.

```
public Item[] Items { get; protected set; }
```

Property Value

[Item](#)[]

Represents a generic in game character.

Methods

AcquireItem(Item)

Acquire an item.

```
public virtual void AcquireItem(Item item)
```

Parameters

[item](#) [Item](#)

The item to acquire.

DequireItem(Item)

De-acquire an item.

```
public virtual void DequireItem(Item item)
```

Parameters

`item` [Item](#)

The item to de-acquire.

FindItem(string, out Item, bool)

Find an item.

```
public virtual bool FindItem(string itemName, out Item item, bool includeInvisibleItems = false)
```

Parameters

`itemName` [string](#)

The items name.

`item` [Item](#)

The item.

`includeInvisibleItems` [bool](#)

Specify if invisible items should be included.

Returns

[bool](#)

True if the item was found.

Give(Item, Character)

Give an item to another in game Character.

```
public virtual bool Give(Item item, Character character)
```

Parameters

[item Item](#)

The item to give.

[character Character](#)

The Character to give the item to.

Returns

[bool](#)

True if the transaction completed OK, else false.

HasItem(Item, bool)

Determine if this PlayableCharacter has an item.

```
public virtual bool HasItem(Item item, bool includeInvisibleItems = false)
```

Parameters

[item Item](#)

The item.

[includeInvisibleItems bool](#)

Specify if invisible items should be included.

Returns

[bool](#)

True if the item is found, else false.

Interact(Item)

Interact with an item.

```
public InteractionResult Interact(Item item)
```

Parameters

`item` [Item](#)

The item to interact with.

Returns

[InteractionResult](#)

The result of the interaction.

InteractWithItem(Item)

Interact with a specified item.

```
protected virtual InteractionResult InteractWithItem(Item item)
```

Parameters

`item` [Item](#)

The item to interact with.

Returns

[InteractionResult](#)

The result of the interaction.

Kill()

Kill the character.

```
public virtual void Kill()
```

Interface IConverser

Namespace: [BPAdventureFramework.Assets.Characters](#)

Assembly: BP.AdventureFramework.dll

Represents an object that can converse.

```
public interface IConverser : IExaminable, IPlayerVisible
```

Inherited Members

[IExaminable.Identifier](#) , [IExaminable.Description](#) , [IExaminable.Commands](#) ,
[IExaminable.Examine\(\)](#) , [IPlayerVisible.IsPlayerVisible](#)

Properties

Conversation

Get or set the conversation.

```
Conversation Conversation { get; set; }
```

Property Value

[Conversation](#)

Represents an object that can converse.

Class NonPlayableCharacter

Namespace: [BPAdventureFramework.Assets.Characters](#)

Assembly: BP.AdventureFramework.dll

Represents a non-playable character.

```
public sealed class NonPlayableCharacter : Character, IInteractWithItem, IConverser, IExaminable, IPlayerVisible
```

Inheritance

[object](#) ← [ExaminableObject](#) ← [Character](#) ← NonPlayableCharacter

Implements

[IInteractWithItem](#), [IConverser](#), [IExaminable](#), [IPlayerVisible](#)

Inherited Members

[Character.IsAlive](#), [Character.Interaction](#), [Character.Items](#), [Character.Kill\(\)](#),
[Character.AcquireItem\(Item\)](#), [Character.DequireItem\(Item\)](#),
[Character.HasItem\(Item, bool\)](#), [Character.FindItem\(string, out Item, bool\)](#),
[Character.Give\(Item, Character\)](#), [Character.Interact\(Item\)](#),
[ExaminableObject.Examination](#), [ExaminableObject.ToString\(\)](#),
[ExaminableObject.Identifier](#), [ExaminableObject.Description](#),
[ExaminableObject.Commands](#), [ExaminableObject.Examine\(\)](#),
[ExaminableObject.IsPlayerVisible](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#),
[object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

NonPlayableCharacter(Identifier, Description, Conversation)

Initializes a new instance of the NonPlayableCharacter class.

```
public NonPlayableCharacter(Identifier identifier, Description description, Conversation conversation = null)
```

Parameters

identifier [Identifier](#)

This NonPlayableCharacter's identifier.

description [Description](#)

The description of this NonPlayableCharacter.

conversation [Conversation](#)

The conversation.

NonPlayableCharacter(Identifier, Description, Conversation, bool, InteractionCallback)

Initializes a new instance of the NonPlayableCharacter class.

```
public NonPlayableCharacter(Identifier identifier, Description description,
Conversation conversation, bool isAlive, InteractionCallback interaction)
```

Parameters

identifier [Identifier](#)

This NonPlayableCharacter's identifier.

description [Description](#)

The description of this NonPlayableCharacter.

conversation [Conversation](#)

The conversation.

isAlive [bool](#)

Set if this NonPlayableCharacter is alive.

interaction [InteractionCallback](#)

Set this NonPlayableCharacter's interaction.

NonPlayableCharacter(Identifier, Description, Conversation, bool, InteractionCallback, ExaminationCallback)

Initializes a new instance of the NonPlayableCharacter class.

```
public NonPlayableCharacter(Identifier identifier, Description description,
Conversation conversation, bool isAlive, InteractionCallback interaction,
ExaminationCallback examination)
```

Parameters

`identifier` [Identifier](#)

This NonPlayableCharacter's identifier.

`description` [Description](#)

The description of this NonPlayableCharacter.

`conversation` [Conversation](#)

The conversation.

`isAlive` [bool](#)

Set if this NonPlayableCharacter is alive.

`interaction` [InteractionCallback](#)

Set this NonPlayableCharacter's interaction.

`examination` [ExaminationCallback](#)

Set this NonPlayableCharacter's examination.

NonPlayableCharacter(string, string, Conversation)

Initializes a new instance of the NonPlayableCharacter class.

```
public NonPlayableCharacter(string identifier, string description, Conversation
conversation = null)
```

Parameters

identifier [string](#)

This NonPlayableCharacter's identifier.

description [string](#)

The description of this NonPlayableCharacter.

conversation [Conversation](#)

The conversation.

Properties

Conversation

Get or set the conversation.

```
public Conversation Conversation { get; set; }
```

Property Value

[Conversation](#)

Represents a non-playable character.

Class PlayableCharacter

Namespace: [BPAdventureFramework.Assets.Characters](#)

Assembly: BP.AdventureFramework.dll

Represents a playable character.

```
public sealed class PlayableCharacter : Character, IExaminable,  
IPlayerVisible, IInteractWithItem
```

Inheritance

[object](#) ← [ExaminableObject](#) ← [Character](#) ← PlayableCharacter

Implements

[IExaminable](#), [IPlayerVisible](#), [IInteractWithItem](#)

Inherited Members

[Character.IsAlive](#), [Character.Interaction](#), [Character.Items](#), [Character.Kill\(\)](#),
[Character.AcquireItem\(Item\)](#), [Character.DequireItem\(Item\)](#),
[Character.HasItem\(Item, bool\)](#), [Character.FindItem\(string, out Item, bool\)](#),
[Character.Give\(Item, Character\)](#), [Character.Interact\(Item\)](#),
[ExaminableObject.Examination](#), [ExaminableObject.ToString\(\)](#),
[ExaminableObject.Identifier](#), [ExaminableObject.Description](#),
[ExaminableObject.Commands](#), [ExaminableObject.Examine\(\)](#),
[ExaminableObject.IsPlayerVisible](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#),
[object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

PlayableCharacter(Identifier, Description, params Item[])

Initializes a new instance of the PlayableCharacter class.

```
public PlayableCharacter(Identifier identifier, Description description, params  
Item[] items)
```

Parameters

identifier [Identifier](#)

This PlayableCharacter's identifier.

description [Description](#)

The description of the player.

items [Item\[\]](#)

The players items.

PlayableCharacter(string, string, params Item[])

Initializes a new instance of the PlayableCharacter class.

```
public PlayableCharacter(string identifier, string description, params Item[] items)
```

Parameters

identifier [string](#)

This PlayableCharacter's identifier.

description [string](#)

The description of the player.

items [Item\[\]](#)

The players items.

Methods

UseItem(IInteractWithItem, Item)

Use an item.

```
public InteractionResult UseItem(IInteractWithItem targetObject, Item item)
```

Parameters

targetObject [IInteractWithItem](#)

A target object to use the item on.

item [Item](#)

The item to use.

Returns

[InteractionResult](#)

The result of the items usage.

Namespace BP.AdventureFramework. Assets.Interaction

Classes

[InteractionResult](#)

Represents a result of an interaction.

[Reaction](#)

Represents a reaction.

[Result](#)

Represents a result.

Interfaces

[IInteractWithItem](#)

Represents any object that can interact with an item.

Enums

[InteractionEffect](#)

Enumeration of interaction effects.

[ReactionResult](#)

Enumeration of reaction results.

Delegates

[Condition](#)

Represents a callback for conditions.

[InteractionCallback](#)

Represents the callback for interacting with objects.

Delegate Condition

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Represents a callback for conditions.

```
public delegate bool Condition()
```

Returns

[bool](#)

The result of the condition.

Interface IInteractWithItem

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can interact with an item.

```
public interface IInteractWithItem
```

Methods

Interact(Item)

Interact with an item.

```
InteractionResult Interact(Item item)
```

Parameters

`item` [Item](#)

The item to interact with.

Returns

[InteractionResult](#)

The result of the interaction.

Delegate InteractionCallback

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Represents the callback for interacting with objects.

```
public delegate InteractionResult InteractionCallback(Item item,  
IInteractWithItem target)
```

Parameters

item [Item](#)

The item to interact with.

target [IInteractWithItem](#)

The target interaction element.

Returns

[InteractionResult](#)

The result of the interaction.

Enum InteractionEffect

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Enumeration of interaction effects.

```
public enum InteractionEffect
```

Fields

FatalEffect = 3

A fatal effect to the interaction.

ItemMorphed = 2

Item morphed into another object.

ItemUsedUp = 1

Item was used up.

NoEffect = 0

No effect to the interaction on either the item or the target.

SelfContained = 5

Any other self contained effect.

TargetUsedUp = 4

The target was used up.

Class InteractionResult

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Represents a result of an interaction.

```
public sealed class InteractionResult : Result
```

Inheritance

[object](#) ← [Result](#) ← InteractionResult

Inherited Members

[Result.Description](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

InteractionResult(InteractionEffect, Item)

Initializes a new instance of the InteractionResult class.

```
public InteractionResult(InteractionEffect effect, Item item)
```

Parameters

effect [InteractionEffect](#)

The effect of this interaction.

item [Item](#)

The item used in this interaction.

InteractionResult(InteractionEffect, Item, string)

Initializes a new instance of the InteractionResult class.

```
public InteractionResult(InteractionEffect effect, Item item,  
string descriptionOfEffect)
```

Parameters

effect [InteractionEffect](#)

The effect of this interaction.

item [Item](#)

The item used in this interaction.

descriptionOfEffect [string](#)

A description of the effect.

Properties

Effect

Get the effect.

```
public InteractionEffect Effect { get; }
```

Property Value

[InteractionEffect](#)

Represents a result of an interaction.

Item

Get the item used in the interaction.

```
public Item Item { get; }
```

Property Value

Item

Represents a result of an interaction.

Class Reaction

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Represents a reaction.

```
public sealed class Reaction
```

Inheritance

[object](#) ← Reaction

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Reaction(ReactionResult, string)

Initializes a new instance of the Reaction class.

```
public Reaction(ReactionResult result, string description)
```

Parameters

result [ReactionResult](#)

The result.

description [string](#)

A description of the result.

Properties

Description

Get a description of the result.

```
public string Description { get; }
```

Property Value

[string](#)

Represents a reaction.

Result

Get the result.

```
public ReactionResult Result { get; }
```

Property Value

[ReactionResult](#)

Represents a reaction.

Enum ReactionResult

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Enumeration of reaction results.

```
public enum ReactionResult
```

Fields

Error = 0

Error.

Fatal = 3

A reaction that has a fatal effect on the player.

Internal = 2

An internal reaction.

OK = 1

OK.

Class Result

Namespace: [BPAdventureFramework.Assets.Interaction](#)

Assembly: BP.AdventureFramework.dll

Represents a result.

```
public abstract class Result
```

Inheritance

[object](#) ← Result

Derived

[ExaminationResult](#), [InteractionResult](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

Result()

Initializes a new instance of the Result class.

```
protected Result()
```

Properties

Description

Get the description.

```
public string Description { get; protected set; }
```

Property Value

[string](#) ↗

Represents a result.

Namespace BP.AdventureFramework. Assets.Locations

Classes

[Exit](#)

Represents an exit from a GameLocation.

[Matrix](#)

Provides a 3D matrix of rooms.

[Overworld](#)

Represents an entire overworld.

[Region](#)

Represents a region.

[Room](#)

Represents a room

[RoomPosition](#)

Represents a room position.

[ViewPoint](#)

Represents a view point from a room.

Enums

[Direction](#)

Enumeration of directions.

Enum Direction

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Enumeration of directions.

```
public enum Direction
```

Extension Methods

[DirectionExtensions.Inverse\(Direction\)](#)

Fields

Down = 5

Down.

East = 1

East.

North = 0

North.

South = 2

South.

Up = 4

Up.

West = 3

West.

Class Exit

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Represents an exit from a GameLocation.

```
public sealed class Exit : ExaminableObject, IExaminable, IPlayerVisible
```

Inheritance

[object](#) ↗ ← [ExaminableObject](#) ← Exit

Implements

[IExaminable](#), [IPlayerVisible](#)

Inherited Members

[ExaminableObject.Examination](#) , [ExaminableObject.ToString\(\)](#) ,
[ExaminableObject.Identifier](#) , [ExaminableObject.Description](#) ,
[ExaminableObject.Commands](#) , [ExaminableObject.Examine\(\)](#) ,
[ExaminableObject.IsPlayerVisible](#) , [object.Equals\(object\)](#) ↗ , [object.Equals\(object, object\)](#) ↗ ,
[object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ , [object.ReferenceEquals\(object, object\)](#) ↗

Constructors

Exit(Direction, bool, Description)

Initializes a new instance of the Exit class.

```
public Exit(Direction direction, bool isLocked = false, Description description  
= null)
```

Parameters

direction [Direction](#)

The direction of the exit.

isLocked [bool](#) ↗

If this exit is locked.

[description](#) [Description](#)

A description of the exit.

Properties

Direction

Get the direction of the exit.

```
public Direction Direction { get; }
```

Property Value

[Direction](#)

Represents an exit from a GameLocation.

IsLocked

Get if this Exit is locked.

```
public bool IsLocked { get; }
```

Property Value

[bool](#) ↗

Represents an exit from a GameLocation.

Methods

Lock()

Lock this exit.

```
public void Lock()
```

Unlock()

Unlock this exit.

```
public void Unlock()
```

Class Matrix

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Provides a 3D matrix of rooms.

```
public sealed class Matrix
```

Inheritance

[object](#) ← Matrix

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Matrix(Room[, ,])

Initializes a new instance of the Matrix class.

```
public Matrix(Room[, ,] rooms)
```

Parameters

rooms [Room\[, ,\]](#)

The rooms to be represented.

Properties

Depth

Get the depth of the matrix.

```
public int Depth { get; }
```

Property Value

[int](#)

Provides a 3D matrix of rooms.

Height

Get the height of the matrix.

```
public int Height { get; }
```

Property Value

[int](#)

Provides a 3D matrix of rooms.

this[int, int, int]

Get a room in this matrix.

```
public Room this[int x, int y, int z] { get; }
```

Parameters

x [int](#)

The x position.

y [int](#)

The y position.

z [int](#)

The z position.

Property Value

[Room](#)

The room.

Width

Get the width of the matrix.

```
public int Width { get; }
```

Property Value

[int](#)

Provides a 3D matrix of rooms.

Methods

ToRooms()

Return this matrix as a one dimensional array of rooms.

```
public Room[] ToRooms()
```

Returns

[Room\[\]](#)

The rooms, as a one dimensional array.

Class Overworld

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Represents an entire overworld.

```
public sealed class Overworld : ExaminableObject, IExaminable, IPlayerVisible
```

Inheritance

[object](#) ← [ExaminableObject](#) ← Overworld

Implements

[IExaminable](#), [IPlayerVisible](#)

Inherited Members

[ExaminableObject.Examination](#) , [ExaminableObject.ToString\(\)](#) ,
[ExaminableObject.Identifier](#) , [ExaminableObject.Description](#) ,
[ExaminableObject.Commands](#) , [ExaminableObject.IsPlayerVisible](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#)

Constructors

Overworld(Identifier, Description)

Initializes a new instance of the overworld class.

```
public Overworld(Identifier identifier, Description description)
```

Parameters

identifier [Identifier](#)

The identifier for this overworld.

description [Description](#)

A description of this overworld.

Overworld(string, string)

Initializes a new instance of the overworld class.

```
public Overworld(string identifier, string description)
```

Parameters

identifier [string](#)

The identifier for this overworld.

description [string](#)

A description of this overworld.

Properties

CurrentRegion

Get the current region.

```
public Region CurrentRegion { get; }
```

Property Value

[Region](#)

Represents an entire overworld.

Regions

Get the regions in this overworld.

```
public Region[] Regions { get; }
```

Property Value

[Region\[\]](#)

Represents an entire overworld.

Methods

AddRegion(Region)

Add a region to this overworld.

```
public void AddRegion(Region region)
```

Parameters

`region` [Region](#)

The region to add.

Examine()

Examine this object.

```
public override ExaminationResult Examine()
```

Returns

[ExaminationResult](#)

A `ExaminationResult` detailing the examination of this object.

FindRegion(string, out Region)

Find a region.

```
public bool FindRegion(string regionName, out Region region)
```

Parameters

`regionName` [string](#)

The regions name.

`region` [Region](#)

The region.

Returns

[bool](#)

True if the region was found.

Move(Region)

Move to a region.

```
public bool Move(Region region)
```

Parameters

`region` [Region](#)

The region to move to.

Returns

[bool](#)

True if the region could be moved to, else false.

RemoveRegion(Region)

Remove a region from this overworld.

```
public void RemoveRegion(Region region)
```

Parameters

region [Region](#)

The region to remove.

Class Region

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Represents a region.

```
public sealed class Region : ExaminableObject, IExaminable, IPlayerVisible
```

Inheritance

[object](#) ↳ [ExaminableObject](#) ↳ Region

Implements

[IExaminable](#), [IPlayerVisible](#)

Inherited Members

[ExaminableObject.Examination](#) , [ExaminableObject.ToString\(\)](#) ,
[ExaminableObject.Identifier](#) , [ExaminableObject.Description](#) ,
[ExaminableObject.Commands](#) , [ExaminableObject.IsPlayerVisible](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#)

Constructors

Region(Identifier, Description)

Initializes a new instance of the Region class.

```
public Region(Identifier identifier, Description description)
```

Parameters

identifier [Identifier](#)

This Regions identifier.

description [Description](#)

The description of this Region.

Region(string, string)

Initializes a new instance of the Region class.

```
public Region(string identifier, string description)
```

Parameters

identifier [string](#)

This Regions identifier.

description [string](#)

The description of this Region.

Properties

CurrentRoom

Get the current room.

```
public Room CurrentRoom { get; }
```

Property Value

[Room](#)

Represents a region.

this[int, int, int]

Get a room at a specified location.

```
public Room this[int x, int y, int z] { get; }
```

Parameters

x [int](#)

The x position.

y [int](#)

The y position.

z [int](#)

The z position.

Property Value

[Room](#)

The room.

Rooms

Get the number of rooms region contains.

```
public int Rooms { get; }
```

Property Value

[int](#)

Represents a region.

VisibleWithoutDiscovery

Get if the current region is visible without discovery.

```
public bool VisibleWithoutDiscovery { get; set; }
```

Property Value

[bool](#)

Represents a region.

Methods

AddRoom(Room, int, int, int)

Add a Room to this region.

```
public bool AddRoom(Room room, int x, int y, int z)
```

Parameters

room [Room](#)

The room to add.

x [int](#)

The x position within the region.

y [int](#)

The y position within the region.

z [int](#)

The z position within the region.

Returns

[bool](#)

Represents a region.

Examine()

Examine this object.

```
public override ExaminationResult Examine()
```

Returns

[ExaminationResult](#)

A ExaminationResult detailing the examination of this object.

GetAdjoiningRoom(Direction)

Get an adjoining room to the Region.CurrentRoom property.

```
public Room GetAdjoiningRoom(Direction direction)
```

Parameters

[direction](#) [Direction](#)

The direction of the adjoining Room.

Returns

[Room](#)

The adjoining Room.

GetAdjoiningRoom(Direction, Room)

Get an adjoining room to a room.

```
public Room GetAdjoiningRoom(Direction direction, Room room)
```

Parameters

[direction](#) [Direction](#)

The direction of the adjoining room.

[room](#) [Room](#)

The room to use as the reference.

Returns

[Room](#)

The adjoining room.

GetPositionOfRoom(Room)

Get the position of a room.

```
public RoomPosition GetPositionOfRoom(Room room)
```

Parameters

[room](#) [Room](#)

The room.

Returns

[RoomPosition](#)

The position of the room.

JumpToRoom(int, int, int)

Jump to a room.

```
public bool JumpToRoom(int x, int y, int z)
```

Parameters

[x](#) [int](#)

The x location of the room.

[y](#) [int](#)

The y location of the room.

`z` [int ↗](#)

The z location of the room.

Returns

[bool ↗](#)

True if the room could be jumped to, else false.

Move(Direction)

Move in a direction.

```
public bool Move(Direction direction)
```

Parameters

`direction` [Direction](#)

The direction to move in.

Returns

[bool ↗](#)

True if the move was successful, else false.

SetStartRoom(Room)

Set the room to start in.

```
public void SetStartRoom(Room room)
```

Parameters

`room` [Room](#)

The Room to start in.

SetStartRoom(int, int, int)

Set the room to start in.

```
public void SetStartRoom(int x, int y, int z)
```

Parameters

x [int](#)

The x position.

y [int](#)

The y position.

z [int](#)

The z position.

ToMatrix()

Get this region as a 3D matrix of rooms.

```
public Matrix ToMatrix()
```

Returns

[Matrix](#)

This region, as a 3D matrix.

UnlockDoorPair(Direction)

Unlock a pair of doors in a specified direction in the CurrentRoom.

```
public bool UnlockDoorPair(Direction direction)
```

Parameters

direction [Direction](#)

The direction to unlock in.

Returns

[bool](#) ↗

True if the door pair could be unlocked, else false.

Class Room

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Represents a room

```
public sealed class Room : ExaminableObject, IExaminable,  
IPlayerVisible, IInteractWithItem
```

Inheritance

[object](#) ← [ExaminableObject](#) ← Room

Implements

[IExaminable](#), [IPlayerVisible](#), [IInteractWithItem](#)

Inherited Members

[ExaminableObject.Examination](#) , [ExaminableObject.ToString\(\)](#) ,
[ExaminableObject.Identifier](#) , [ExaminableObject.Description](#) ,
[ExaminableObject.Commands](#) , [ExaminableObject.IsPlayerVisible](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#)

Constructors

Room(Identifier, Description, params Exit[])

Initializes a new instance of the Room class.

```
public Room(Identifier identifier, Description description, params Exit[] exits)
```

Parameters

identifier [Identifier](#)

This rooms identifier.

description [Description](#)

This rooms description.

`exits` [Exit\[\]](#)

The exits from this room.

Room(Identifier, Description, Exit[], params Item[])

Initializes a new instance of the Room class.

```
public Room(Identifier identifier, Description description, Exit[] exits = null,  
params Item[] items)
```

Parameters

`identifier` [Identifier](#)

This rooms identifier.

`description` [Description](#)

This rooms description.

`exits` [Exit\[\]](#)

The exits from this room.

`items` [Item\[\]](#)

The items in this room.

Room(string, string, params Exit[])

Initializes a new instance of the Room class.

```
public Room(string identifier, string description, params Exit[] exits)
```

Parameters

`identifier` [string](#) ↗

This rooms identifier.

description [string](#)

This rooms description.

exits [Exit\[\]](#)

The exits from this room.

Room(string, string, Exit[], params Item[])

Initializes a new instance of the Room class.

```
public Room(string identifier, string description, Exit[] exits = null, params Item[] items)
```

Parameters

identifier [string](#)

This rooms identifier.

description [string](#)

This rooms description.

exits [Exit\[\]](#)

The exits from this room.

items [Item\[\]](#)

The items in this room.

Properties

Characters

Get the characters in this Room.

```
public NonPlayableCharacter[] Characters { get; }
```

Property Value

[NonPlayableCharacter\[\]](#)

Represents a room

EnteredFrom

Get which direction this Room was entered from.

```
public Direction? EnteredFrom { get; }
```

Property Value

[Direction?](#)

Represents a room

Exits

Get the exits.

```
public Exit[] Exits { get; }
```

Property Value

[Exit\[\]](#)

Represents a room

HasBeenVisited

Get if this location has been visited.

```
public bool HasBeenVisited { get; }
```

Property Value

[bool](#)

Represents a room

Interaction

Get or set the interaction.

```
public InteractionCallback Interaction { get; set; }
```

Property Value

[InteractionCallback](#)

Represents a room

this[Direction]

Get an exit.

```
public Exit this[Direction direction] { get; }
```

Parameters

direction [Direction](#)

The direction of an exit.

Property Value

[Exit](#)

The exit.

Items

Get the items in this Room.

```
public Item[] Items { get; }
```

Property Value

[Item\[\]](#)

Represents a room

UnlockedExits

Get all unlocked exits.

```
public Exit[] UnlockedExits { get; }
```

Property Value

[Exit\[\]](#)

Represents a room

Methods

AddCharacter(NonPlayableCharacter)

Add a character to this room.

```
public void AddCharacter(NonPlayableCharacter character)
```

Parameters

character [NonPlayableCharacter](#)

The character to add.

AddExit(Exit)

Add an exit to this room.

```
public void AddExit(Exit exit)
```

Parameters

`exit` [Exit](#)

The exit to add.

AddItem(Item)

Add an item to this room.

```
public void AddItem(Item item)
```

Parameters

`item` [Item](#)

The item to add.

CanMove(Direction)

Test if a move is possible.

```
public bool CanMove(Direction direction)
```

Parameters

`direction` [Direction](#)

The direction to test.

Returns

[bool](#)

If a move in the specified direction is possible.

ContainsCharacter(NonPlayableCharacter, bool)

Get if this Room contains a character.

```
public bool ContainsCharacter(NonPlayableCharacter character, bool  
includeInvisibleCharacters = false)
```

Parameters

character [NonPlayableCharacter](#)

The character.

includeInvisibleCharacters [bool](#)

Specify if invisible characters should be included.

Returns

[bool](#)

True if the item is in this room, else false.

ContainsCharacter(string, bool)

Get if this Room contains a character.

```
public bool ContainsCharacter(string characterName, bool includeInvisibleCharacters  
= false)
```

Parameters

characterName [string](#)

The character name to check for.

`includeInvisibleCharacters` [bool](#)

Specify if invisible characters should be included.

Returns

[bool](#)

True if the item is in this room, else false.

ContainsExit(Direction, bool)

Get if this Room contains an exit.

```
public bool ContainsExit(Direction direction, bool includeInvisibleExits = false)
```

Parameters

`direction` [Direction](#)

The direction of the exit to check for.

`includeInvisibleExits` [bool](#)

Specify if invisible exits should be included.

Returns

[bool](#)

True if the exit exists, else false.

ContainsExit(bool)

Get if this Room contains an exit.

```
public bool ContainsExit(bool includeInvisibleExits = false)
```

Parameters

`includeInvisibleExits` [bool](#)

Specify if invisible exits should be included.

Returns

[bool](#)

True if the exit exists, else false.

ContainsInteractionTarget(string)

Get if this Room contains an interaction target.

```
public bool ContainsInteractionTarget(string targetName)
```

Parameters

`targetName` [string](#)

The name of the target to check for.

Returns

[bool](#)

True if the target is in this room, else false.

ContainsItem(Item)

Get if this Room contains an item. This will not include items whose ExaminableObject.IsPlayerVisible property is set to false.

```
public bool ContainsItem(Item item)
```

Parameters

`item` [Item](#)

The item to check for.

Returns

[bool](#)

True if the item is in this room, else false.

ContainsItem(string, bool)

Get if this Room contains an item.

```
public bool ContainsItem(string itemName, bool includeInvisibleItems = false)
```

Parameters

[itemName](#) [string](#)

The item name to check for.

[includeInvisibleItems](#) [bool](#)

Specify if invisible items should be included.

Returns

[bool](#)

True if the item is in this room, else false.

Examine()

Handle examination this Room.

```
public override ExaminationResult Examine()
```

Returns

[ExaminationResult](#)

The result of this examination.

FindCharacter(string, out NonPlayableCharacter)

Find a character. This will not include characters whose ExaminableObject.IsPlayerVisible property is set to false.

```
public bool FindCharacter(string characterName, out NonPlayableCharacter character)
```

Parameters

characterName [string](#)

The character name.

character [NonPlayableCharacter](#)

The character name.

Returns

[bool](#)

True if the character was found.

FindCharacter(string, out NonPlayableCharacter, bool)

Find a character.

```
public bool FindCharacter(string characterName, out NonPlayableCharacter character,  
bool includeInvisibleCharacters)
```

Parameters

characterName [string](#)

The character name.

character [NonPlayableCharacter](#)

The character.

`includeInvisibleCharacters` [bool](#)

Specify if invisible characters should be included.

Returns

[bool](#)

True if the character was found.

FindExit(Direction, bool, out Exit)

Find an exit.

```
public bool FindExit(Direction direction, bool includeInvisibleExits, out Exit exit)
```

Parameters

`direction` [Direction](#)

The exits direction.

`includeInvisibleExits` [bool](#)

Specify if invisible exists should be included.

`exit` [Exit](#)

The exit.

Returns

[bool](#)

True if the exit was found.

FindInteractionTarget(string, out IInteractWithItem)

Find an interaction target.

```
public bool FindInteractionTarget(string targetName, out IInteractWithItem target)
```

Parameters

targetName [string](#)

The targets name.

target [IInteractWithItem](#)

The target.

Returns

[bool](#)

True if the target was found.

FindItem(string, out Item)

Find an item. This will not include items whose ExaminableObject.IsPlayerVisible property is set to false

```
public bool FindItem(string itemName, out Item item)
```

Parameters

itemName [string](#)

The items name. This is case insensitive

item [Item](#)

The item

Returns

[bool](#)

True if the item was found

FindItem(string, out Item, bool)

Find an item.

```
public bool FindItem(string itemName, out Item item, bool includeInvisibleItems)
```

Parameters

`itemName` [string](#)

The items name.

`item` [Item](#)

The item.

`includeInvisibleItems` [bool](#)

Specify is invisible items should be included.

Returns

[bool](#)

True if the item was found.

HasLockedExitInDirection(Direction, bool)

Get if this room has a visible locked exit in a specified direction.

```
public bool HasLockedExitInDirection(Direction direction, bool includeInvisibleExits = false)
```

Parameters

`direction` [Direction](#)

The direction to check.

`includeInvisibleExits` [bool](#)

Specify if invisible exits should be included.

Returns

[bool](#)

If there is a locked exit in the specified direction.

HasUnlockedExitInDirection(Direction, bool)

Get if this room has a visible unlocked exit in a specified direction.

```
public bool HasUnlockedExitInDirection(Direction direction, bool  
includeInvisibleExits = false)
```

Parameters

[direction](#) [Direction](#)

The direction to check.

[includeInvisibleExits](#) [bool](#)

Specify if invisible exits should be included.

Returns

[bool](#)

If there is a unlocked exit in the specified direction.

Interact(Item)

Interact with an item.

```
public InteractionResult Interact(Item item)
```

Parameters

[item](#) [Item](#)

The item to interact with.

Returns

[InteractionResult](#)

The result of the interaction.

MovedInto(Direction?)

Handle movement into this GameLocation.

```
public void MovedInto(Direction? fromDirection)
```

Parameters

[fromDirection Direction?](#)

The direction movement into this Room is from. Use null if there is no direction.

RemoveCharacter(NonPlayableCharacter)

Remove a character from the room.

```
public void RemoveCharacter(NonPlayableCharacter character)
```

Parameters

[character NonPlayableCharacter](#)

The character to remove.

RemoveExit(Exit)

Remove an exit from the room.

```
public void RemoveExit(Exit exit)
```

Parameters

exit [Exit](#)

The exit to remove.

RemoveInteractionTarget(IInteractWithItem)

Remove an interaction target from the room.

```
public IInteractWithItem RemoveInteractionTarget(IInteractWithItem target)
```

Parameters

target [IInteractWithItem](#)

The target to remove.

Returns

[IInteractWithItem](#)

The target removed from this room.

RemoveItem(Item)

Remove an item from the room.

```
public void RemoveItem(Item item)
```

Parameters

item [Item](#)

The item to remove.

SpecifyConditionalDescription(ConditionalDescription)

Specify a conditional description of this room.

```
public void SpecifyConditionalDescription(ConditionalDescription description)
```

Parameters

description [ConditionalDescription](#)

The description of this room.

Class RoomPosition

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Represents a room position.

```
public class RoomPosition
```

Inheritance

[object](#) ← RoomPosition

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

RoomPosition(Room, int, int, int)

Initializes a new instance of the RoomPosition class.

```
public RoomPosition(Room room, int x, int y, int z)
```

Parameters

room [Room](#)

The room/

x [int](#)

The x position of the room.

y [int](#)

The y position of the room.

z [int](#)

The z position of the room.

Properties

Room

Get the room.

```
public Room Room { get; }
```

Property Value

[Room](#)

Represents a room position.

X

Get the X position of the room.

```
public int X { get; }
```

Property Value

[int](#)

Represents a room position.

Y

Get the Y position of the room.

```
public int Y { get; }
```

Property Value

[int](#)

Represents a room position.

Z

Get the Z position of the room.

```
public int Z { get; }
```

Property Value

[int](#)

Represents a room position.

Methods

IsAtPosition(int, int, int)

Get if this RoomPosition is at a position.

```
public bool IsAtPosition(int x, int y, int z)
```

Parameters

x [int](#)

The X position.

y [int](#)

The Y position.

z [int](#)

The Z position.

Returns

bool ↴

True if this is at the position, else false.

Class ViewPoint

Namespace: [BPAdventureFramework.Assets.Locations](#)

Assembly: BP.AdventureFramework.dll

Represents a view point from a room.

```
public sealed class ViewPoint
```

Inheritance

[object](#) ← ViewPoint

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

Any

Get if there is a view in any direction.

```
public bool Any { get; }
```

Property Value

[bool](#)

Represents a view point from a room.

AnyNotVisited

Get if there is a view in any direction.

```
public bool AnyNotVisited { get; }
```

Property Value

[bool](#) ↗

Represents a view point from a room.

AnyVisited

Get if there is a view in any direction.

```
public bool AnyVisited { get; }
```

Property Value

[bool](#) ↗

Represents a view point from a room.

this[Direction]

Get the room that lies in a specified direction.

```
public Room this[Direction direction] { get; }
```

Parameters

[direction](#) [Direction](#)

The direction to check.

Property Value

[Room](#)

The room.

NoView

Get a view point representing no view.

```
public static ViewPoint NoView { get; }
```

Property Value

[ViewPoint](#)

Represents a view point from a room.

Methods

Create(Region)

Create a new ViewPoint.

```
public static ViewPoint Create(Region region)
```

Parameters

[region](#) [Region](#)

The region to create the view point from.

Returns

[ViewPoint](#)

The view point.

Namespace BP.AdventureFramework.Commands

Classes

[CustomCommand](#)

Provides a custom command.

Interfaces

[ICommand](#)

Represents a command.

Delegates

[CustomCommandCallback](#)

Provides a callback for custom commands.

Class CustomCommand

Namespace: [BPAdventureFramework.Commands](#)

Assembly: BP.AdventureFramework.dll

Provides a custom command.

```
public class CustomCommand : ICommand, IPlayerVisible
```

Inheritance

[object](#) ← CustomCommand

Implements

[ICommand](#), [IPlayerVisible](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

CustomCommand(CommandHelp, bool,
CustomCommandCallback)

Initializes a new instance of the CustomCommand class.

```
public CustomCommand(CommandHelp help, bool isPlayerVisible,  
CustomCommandCallback callback)
```

Parameters

help [CommandHelp](#)

The help for this command.

isPlayerVisible [bool](#)

If this is visible to the player.

callback [CustomCommandCallback](#)

The callback to invoke when this command is invoked.

Properties

Arguments

Get or set the arguments.

```
public string[] Arguments { get; set; }
```

Property Value

[string](#)[]

Provides a custom command.

Help

Get the help for this command.

```
public CommandHelp Help { get; }
```

Property Value

[CommandHelp](#)

Provides a custom command.

IsPlayerVisible

Get or set if this is visible to the player.

```
public bool IsPlayerVisible { get; set; }
```

Property Value

[bool](#)

Provides a custom command.

Methods

Invoke(Game)

Invoke the command.

```
public Reaction Invoke(Game game)
```

Parameters

game [Game](#)

The game to invoke the command on.

Returns

[Reaction](#)

The reaction.

Delegate CustomCommandCallback

Namespace: [BPAdventureFramework.Commands](#)

Assembly: BP.AdventureFramework.dll

Provides a callback for custom commands.

```
public delegate Reaction CustomCommandCallback(Game game, string[] arguments)
```

Parameters

game [Game](#)

The game to invoke the command on.

arguments [string](#)[]

The arguments to invoke the command with.

Returns

[Reaction](#)

The reaction to the command.

Interface ICommand

Namespace: [BPAdventureFramework.Commands](#)

Assembly: BP.AdventureFramework.dll

Represents a command.

```
public interface ICommand
```

Methods

Invoke(Game)

Invoke the command.

```
Reaction Invoke(Game game)
```

Parameters

game [Game](#)

The game to invoke the command on.

Returns

[Reaction](#)

The reaction.

Namespace BP.AdventureFramework. Conversations

Classes

[Conversation](#)

Represents a conversation.

[LogItem](#)

Provides a container for log items.

[Paragraph](#)

Represents a paragraph in a Conversation.

[Response](#)

Provides a response to a conversation.

Enums

[Participant](#)

Enumeration of participants in a conversation.

Delegates

[ConversationActionCallback](#)

Provides a callback that can be used in conversations invoking actions.

Class Conversation

Namespace: [BPAdventureFramework.Conversations](#)

Assembly: BP.AdventureFramework.dll

Represents a conversation.

```
public sealed class Conversation
```

Inheritance

[object](#) ← Conversation

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Conversation(params Paragraph[])

Initializes a new instance of the Conversation class.

```
public Conversation(params Paragraph[] paragraphs)
```

Parameters

paragraphs [Paragraph\[\]](#)

The paragraphs.

Properties

CurrentParagraph

Get the current paragraph in the conversation.

```
public Paragraph CurrentParagraph { get; }
```

Property Value

Paragraph

Represents a conversation.

Log

Get the log.

```
public LogItem[] Log { get; }
```

Property Value

LogItem[]

Represents a conversation.

Paragraphs

Get the current paragraph in the conversation.

```
public Paragraph[] Paragraphs { get; }
```

Property Value

Paragraph[]

Represents a conversation.

Methods

Next(Game)

Trigger the next line in this conversation.

```
public Reaction Next(Game game)
```

Parameters

game [Game](#)

The game.

Returns

[Reaction](#)

The reaction to the line.

Respond(Response, Game)

Respond to the conversation.

```
public Reaction Respond(Response response, Game game)
```

Parameters

response [Response](#)

The response.

game [Game](#)

The game.

Returns

[Reaction](#)

The reaction to the response.

Delegate ConversationActionCallback

Namespace: [BPAdventureFramework.Conversations](#)

Assembly: BP.AdventureFramework.dll

Provides a callback that can be used in conversations invoking actions.

```
public delegate void ConversationActionCallback(Game game)
```

Parameters

game [Game](#)

The game to invoke the callback on.

Class LogItem

Namespace: [BPAdventureFramework.Conversations](#)

Assembly: BP.AdventureFramework.dll

Provides a container for log items.

```
public sealed class LogItem
```

Inheritance

[object](#) ← LogItem

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

LogItem(Participant, string)

Initializes a new instance of the LogItem class.

```
public LogItem(Participant participant, string line)
```

Parameters

participant [Participant](#)

The participant.

line [string](#)

The line.

Properties

Line

Get the line.

```
public string Line { get; }
```

Property Value

[string](#)

Provides a container for log items.

Participant

Get the participant.

```
public Participant Participant { get; }
```

Property Value

[Participant](#)

Provides a container for log items.

Class Paragraph

Namespace: [BPAdventureFramework.Conversations](#)

Assembly: BP.AdventureFramework.dll

Represents a paragraph in a Conversation.

```
public sealed class Paragraph
```

Inheritance

[object](#) ← Paragraph

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Paragraph(string)

Initializes a new instance of the Paragraph class.

```
public Paragraph(string line)
```

Parameters

line [string](#)

Specify the line.

Paragraph(string, ConversationActionCallback, int)

Initializes a new instance of the Paragraph class.

```
public Paragraph(string line, ConversationActionCallback action, int delta = 1)
```

Parameters

line [string](#)

Specify the line.

action [ConversationActionCallback](#)

Specify any action to be carried out with this line.

delta [int](#)

Specify the delta. This can be applied to a conversation to direct the conversation after this paragraph.

Paragraph(string, int)

Initializes a new instance of the Paragraph class.

```
public Paragraph(string line, int delta = 1)
```

Parameters

line [string](#)

Specify the line.

delta [int](#)

Specify the delta. This can be applied to a conversation to direct the conversation after this paragraph.

Properties

Action

Get or set any action to carry out on this line.

```
public ConversationActionCallback Action { get; set; }
```

Property Value

[ConversationActionCallback](#)

Represents a paragraph in a Conversation.

CanRespond

Get if a response is possible.

```
public bool CanRespond { get; }
```

Property Value

[bool](#)

Represents a paragraph in a Conversation.

Delta

Get the delta. This can be applied to a conversation to direct the conversation after this paragraph.

```
public int Delta { get; }
```

Property Value

[int](#)

Represents a paragraph in a Conversation.

Line

Get or set the line.

```
public string Line { get; set; }
```

Property Value

[string](#) ↗

Represents a paragraph in a Conversation.

Responses

Get or set the responses, applicable to the last line.

```
public Response[] Responses { get; set; }
```

Property Value

[Response\[\]](#)

Represents a paragraph in a Conversation.

Enum Participant

Namespace: [BPAdventureFramework.Conversations](#)

Assembly: BP.AdventureFramework.dll

Enumeration of participants in a conversation.

```
public enum Participant
```

Fields

Other = 1

Any other participant.

Player = 0

The player.

Class Response

Namespace: [BP.AdventureFramework.Conversations](#)

Assembly: BP.AdventureFramework.dll

Provides a response to a conversation.

```
public sealed class Response
```

Inheritance

[object](#) ← Response

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Response(string, int)

Initializes a new instance of the Response class.

```
public Response(string line, int delta = 1)
```

Parameters

line [string](#)

The line to trigger this response.

delta [int](#)

Specify the delta. This can be applied to a conversation to direct the conversation after this paragraph.

Properties

Delta

Get the delta. This can be applied to a conversation to direct the conversation after this paragraph.

```
public int Delta { get; }
```

Property Value

[int](#)

Provides a response to a conversation.

Line

Get the line.

```
public string Line { get; }
```

Property Value

[string](#)

Provides a response to a conversation.

Namespace BP.AdventureFramework.Extensions

Classes

[DirectionExtensions](#)

Provides extension versions for Directions.

[StringExtensions](#)

Provides extension methods for strings.

Class DirectionExtensions

Namespace: [BP.AdventureFramework.Extensions](#)

Assembly: BP.AdventureFramework.dll

Provides extension versions for Directions.

```
public static class DirectionExtensions
```

Inheritance

[object](#) ← DirectionExtensions

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Methods

Inverse(Direction)

Get an inverse direction.

```
public static Direction Inverse(this Direction value)
```

Parameters

value [Direction](#)

The direction.

Returns

[Direction](#)

The inverse direction.

Class StringExtensions

Namespace: [BP.AdventureFramework.Extensions](#)

Assembly: BP.AdventureFramework.dll

Provides extension methods for strings.

```
public static class StringExtensions
```

Inheritance

[object](#) ← StringExtensions

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Methods

CASEINSENSITIVECONTAINS(string, string)

Returns a value indicating whether a specified substring occurs within this string. This is not case sensitive.

```
public static bool CaseInsensitiveContains(this string value, string subString)
```

Parameters

value [string](#)

The value.

subString [string](#)

The string to seek.

Returns

[bool](#)

True if the value parameter occurs within this string, or if value is the empty string (""); otherwise, false.

EnsureFinishedSentence(string)

Ensure this string is a finished sentence, ending in either ?, ! or .

```
public static string EnsureFinishedSentence(this string value)
```

Parameters

value [string](#)

The string to finish.

Returns

[string](#)

The finished string.

EqualsExaminable(string, IExaminable)

Determine if this string equals an IExaminable.

```
public static bool EqualsExaminable(this string value, IExaminable examinable)
```

Parameters

value [string](#)

The value.

examinable [IExaminable](#)

The examinable.

Returns

[bool](#)

True if this string equals the identifier, else false.

EqualsIdentifier(string, Identifier)

Determine if this string equals an identifier.

```
public static bool EqualsIdentifier(this string value, Identifier identifier)
```

Parameters

[value](#) [string](#)

The value.

[identifier](#) [Identifier](#)

The identifier.

Returns

[bool](#)

True if this string equals the identifier, else false.

GetObjectifier(string)

Get an objectifier for a word.

```
public static string GetObjectifier(this string word)
```

Parameters

[word](#) [string](#)

The word.

Returns

[string](#)

The objectifier.

IsPlural(string)

Get if a word is plural.

```
public static bool IsPlural(this string word)
```

Parameters

[word](#) [string](#)

The word to check.

Returns

[bool](#)

True if the word is plural.

IsVowel(string)

Get if a character is a vowel.

```
public static bool IsVowel(this string value)
```

Parameters

[value](#) [string](#)

The value to check.

Returns

[bool](#)

True if the character is a vowel.

LineCount(string)

Determine the number of lines in this string.

```
public static int LineCount(this string value)
```

Parameters

value [string](#)

The value.

Returns

[int](#)

The number of lines in the string.

RemoveSentenceEnd(string)

Ensure this string is not a finished sentence, ending in either ?, ! or .

```
public static string RemoveSentenceEnd(this string value)
```

Parameters

value [string](#)

The string to ensure isn't finished finish.

Returns

[string](#)

The unfinished string.

ToDescription(string)

Returns this string as a Description.

```
public static Description ToDescription(this string value)
```

Parameters

value [string](#)

The value.

Returns

[Description](#)

This string as a description.

ToIdentifier(string)

Returns this string as an Identifier.

```
public static Identifier ToIdentifier(this string value)
```

Parameters

value [string](#)

The value.

Returns

[Identifier](#)

This string as an identifier.

ToSentenceCase(string)

Convert a string to sentence case.

```
public static string ToSentenceCase(this string value)
```

Parameters

value [string](#)

The value.

Returns

[string](#)

The word in sentence case.

ToSpeech(string)

Convert a string to speech.

```
public static string ToSpeech(this string value)
```

Parameters

value [string](#)

The value.

Returns

[string](#)

The value in sentence case.

Namespace BP.AdventureFramework. Interpretation

Classes

[CommandHelp](#)

Provides help for a command.

[CustomCommandInterpreter](#)

Provides an object that can be used for interpreting custom commands.

[InterpretationResult](#)

Represents the result of an interpretation.

Interfaces

[IInterpreter](#)

Represents any object that can act as an interpreter for input.

Class CommandHelp

Namespace: [BP.AdventureFramework.Interpretation](#)

Assembly: BP.AdventureFramework.dll

Provides help for a command.

```
public class CommandHelp : IEquatable<CommandHelp>
```

Inheritance

[object](#) ← CommandHelp

Implements

[IEquatable](#)<[CommandHelp](#)>

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

CommandHelp(string, string)

Initializes a new instance of the CommandHelp class.

```
public CommandHelp(string command, string description)
```

Parameters

command [string](#)

The command.

description [string](#)

The help.

Properties

Command

Get the command.

```
public string Command { get; }
```

Property Value

[string](#)

Provides help for a command.

Description

Get the description of the command.

```
public string Description { get; }
```

Property Value

[string](#)

Provides help for a command.

Methods

Equals(CommandHelp)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(CommandHelp other)
```

Parameters

other [CommandHelp](#)

An object to compare with this object.

Returns

[bool](#)

[true](#) if the current object is equal to the [other](#) parameter; otherwise, [false](#).

Class CustomCommandInterpreter

Namespace: [BP.AdventureFramework.Interpretation](#)

Assembly: BP.AdventureFramework.dll

Provides an object that can be used for interpreting custom commands.

```
public class CustomCommandInterpreter : IInterpreter
```

Inheritance

[object](#) ← CustomCommandInterpreter

Implements

[IInterpreter](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Properties

SupportedCommands

Get an array of all supported commands.

```
public CommandHelp[] SupportedCommands { get; }
```

Property Value

[CommandHelp\[\]](#)

Provides an object that can be used for interpreting custom commands.

Methods

GetContextualCommandHelp(Game)

Get contextual command help for a game, based on its current state.

```
public CommandHelp[] GetContextualCommandHelp(Game game)
```

Parameters

game [Game](#)

The game.

Returns

[CommandHelp\[\]](#)

The contextual help.

Interpret(string, Game)

Interpret a string.

```
public InterpretationResult Interpret(string input, Game game)
```

Parameters

input [string](#)

The string to interpret.

game [Game](#)

The game.

Returns

[InterpretationResult](#)

The result of the interpretation.

Interface IInterpreter

Namespace: [BPAdventureFramework.Interpretation](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can act as an interpreter for input.

```
public interface IInterpreter
```

Properties

SupportedCommands

Get an array of all supported commands.

```
CommandHelp[] SupportedCommands { get; }
```

Property Value

[CommandHelp\[\]](#)

Represents any object that can act as an interpreter for input.

Methods

GetContextualCommandHelp(Game)

Get contextual command help for a game, based on its current state.

```
CommandHelp[] GetContextualCommandHelp(Game game)
```

Parameters

game [Game](#)

The game.

Returns

[CommandHelp\[\]](#)

The contextual help.

Interpret(string, Game)

Interpret a string.

```
InterpretationResult Interpret(string input, Game game)
```

Parameters

[input string](#)

The string to interpret.

[game Game](#)

The game.

Returns

[InterpretationResult](#)

The result of the interpretation.

Class InterpretationResult

Namespace: [BP.AdventureFramework.Interpretation](#)

Assembly: BP.AdventureFramework.dll

Represents the result of an interpretation.

```
public class InterpretationResult
```

Inheritance

[object](#) ← InterpretationResult

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

InterpretationResult(bool, ICommand)

Initializes a new instance of the InterpretationResult class.

```
public InterpretationResult(bool wasInterpretedSuccessfully, ICommand command)
```

Parameters

`wasInterpretedSuccessfully` [bool](#)

If interpretation was successful.

`command` [ICommand](#)

The command.

Properties

Command

Get the command.

```
public ICommand Command { get; }
```

Property Value

[ICommand](#)

Represents the result of an interpretation.

Fail

Get a default result for failure.

```
public static InterpretationResult Fail { get; }
```

Property Value

[InterpretationResult](#)

Represents the result of an interpretation.

WasInterpretedSuccessfully

Get if interpretation was successful.

```
public bool WasInterpretedSuccessfully { get; }
```

Property Value

[bool](#)

Represents the result of an interpretation.

Namespace BP.AdventureFramework.Logic

Classes

[EndCheckResult](#)

Represents the result of an end check.

[Game](#)

Represents the structure of the game

Enums

[ExitMode](#)

Enumeration of exit modes.

[GameState](#)

Enumeration of game states.

Delegates

[EndCheck](#)

Represents the callback used for end checks.

[GameCreationCallback](#)

Represents the callback used for Game creation.

[OverworldCreationCallback](#)

Represents a callback for Overworld creation.

[PlayerCreationCallback](#)

Represents a callback for Player creation.

Delegate EndCheck

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Represents the callback used for end checks.

```
public delegate EndCheckResult EndCheck(Game game)
```

Parameters

game [Game](#)

The game to check for end.

Returns

[EndCheckResult](#)

Returns a result from the check.

Class EndCheckResult

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Represents the result of an end check.

```
public class EndCheckResult
```

Inheritance

[object](#) ← EndCheckResult

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

EndCheckResult(bool, string, string)

Initializes a new instance of the EndCheckResult class.

```
public EndCheckResult(bool isCompleted, string title, string description)
```

Parameters

isCompleted [bool](#)

If the game has ended.

title [string](#)

A title to describe the end.

description [string](#)

A description of the end.

Properties

Description

Get a description of the end.

```
public string Description { get; }
```

Property Value

[string](#)

Represents the result of an end check.

HasEnded

Get if the game has come to an end.

```
public bool HasEnded { get; }
```

Property Value

[bool](#)

Represents the result of an end check.

NotEnded

Get a default result for not ended.

```
public static EndCheckResult NotEnded { get; }
```

Property Value

[EndCheckResult](#)

Represents the result of an end check.

Title

Get a title to describe the end.

```
public string Title { get; }
```

Property Value

[string](#)

Represents the result of an end check.

Enum ExitMode

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Enumeration of exit modes.

```
public enum ExitMode
```

Fields

ExitApplication = 0

Exit the application.

ReturnToTitleScreen = 1

Return to the title screen.

Class Game

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Represents the structure of the game

```
public sealed class Game : IDisposable
```

Inheritance

[object](#) ← Game

Implements

[IDisposable](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

DefaultErrorPrefix

Get the default error prefix.

```
public const string DefaultErrorPrefix = "Oops"
```

Field Value

[string](#)

Represents the structure of the game

Properties

ActiveConverser

Get the active converser.

```
public IConverser ActiveConverser { get; }
```

Property Value

[IConverser](#)

Represents the structure of the game

Author

Get or set the name of the author.

```
public string Author { get; set; }
```

Property Value

[string](#)

Represents the structure of the game

DefaultInterpreter

Get the default interpreter.

```
public static IInterpreter DefaultInterpreter { get; }
```

Property Value

[IInterpreter](#)

Represents the structure of the game

DefaultSize

Get the default size.

```
public static Size DefaultSize { get; }
```

Property Value

Size

Represents the structure of the game

Description

Get the description.

```
public string Description { get; }
```

Property Value

string ↗

Represents the structure of the game

DisplayCommandListInSceneFrames

Get or set if the command list is displayed in scene frames.

```
public bool DisplayCommandListInSceneFrames { get; set; }
```

Property Value

bool ↗

Represents the structure of the game

DisplaySize

Get the size of the display area.

```
public Size DisplaySize { get; }
```

Property Value

[Size](#)

Represents the structure of the game

ErrorPrefix

Get or set the error prefix.

```
public string ErrorPrefix { get; set; }
```

Property Value

[string](#)

Represents the structure of the game

FrameBuilders

Get or set the collection of frame builders used to render this game.

```
public FrameBuilderCollection FrameBuilders { get; set; }
```

Property Value

[FrameBuilderCollection](#)

Represents the structure of the game

Introduction

Get the introduction.

```
public string Introduction { get; }
```

Property Value

[string](#)

Represents the structure of the game

IsExecuting

Get if this is executing.

```
public bool IsExecuting { get; }
```

Property Value

[bool](#)

Represents the structure of the game

Name

Get the name.

```
public string Name { get; }
```

Property Value

[string](#)

Represents the structure of the game

Overworld

Get the overworld.

```
public Overworld Overworld { get; }
```

Property Value

[Overworld](#)

Represents the structure of the game

Player

Get the player.

```
public PlayableCharacter Player { get; }
```

Property Value

[PlayableCharacter](#)

Represents the structure of the game

SceneMapKeyType

Get or set the type of key to use on the scene map.

```
public KeyType SceneMapKeyType { get; set; }
```

Property Value

[KeyType](#)

Represents the structure of the game

Methods

Create(string, string, string, OverworldCreationCallback,
PlayerCreationCallback, EndCheck, EndCheck)

Create a new callback for generating instances of a game.

```
public static GameCreationCallback Create(string name, string introduction, string description, OverworldCreationCallback overworldGenerator, PlayerCreationCallback playerGenerator, EndCheck completionCondition, EndCheck gameOverCondition)
```

Parameters

name [string](#)

The name of the game.

introduction [string](#)

An introduction to the game.

description [string](#)

A description of the game.

overworldGenerator [OverworldCreationCallback](#)

A function to generate the overworld with.

playerGenerator [PlayerCreationCallback](#)

The function to generate the player with.

completionCondition [EndCheck](#)

The callback used to check game completion.

gameOverCondition [EndCheck](#)

The callback used to check game over.

Returns

[GameCreationCallback](#)

A new GameCreationHelper that will create a GameCreator with the parameters specified.

`Create(string name, string introduction, string description, OverworldCreationCallback overworldGenerator, PlayerCreationCallback playerGenerator, EndCheck completionCondition, EndCheck gameOverCondition, Size displaySize, FrameBuilderCollection frameBuilders, ExitMode exitMode, string errorPrefix, IInterpreter interpreter)`

Create a new callback for generating instances of a game.

```
public static GameCreationCallback Create(string name, string introduction, string description, OverworldCreationCallback overworldGenerator, PlayerCreationCallback playerGenerator, EndCheck completionCondition, EndCheck gameOverCondition, Size displaySize, FrameBuilderCollection frameBuilders, ExitMode exitMode, string errorPrefix, IInterpreter interpreter)
```

Parameters

`name` [string](#)

The name of the game.

`introduction` [string](#)

An introduction to the game.

`description` [string](#)

A description of the game.

`overworldGenerator` [OverworldCreationCallback](#)

A function to generate the overworld with.

`playerGenerator` [PlayerCreationCallback](#)

The function to generate the player with.

`completionCondition` [EndCheck](#)

The callback used to check game completion.

`gameOverCondition` [EndCheck](#)

The callback used to check game over.

`displaySize` [Size](#)

The display size.

`frameBuilders` [FrameBuilderCollection](#)

The collection of frame builders to use to render the game.

`exitMode` [ExitMode](#)

The exit mode.

`errorPrefix` [string](#) ↴

A prefix to use when displaying errors.

`interpreter` [IInterpreter](#)

The interpreter.

Returns

[GameCreationCallback](#)

A new GameCreationHelper that will create a GameCreator with the parameters specified.

DisplayAbout()

Display the about frame.

```
public void DisplayAbout()
```

DisplayHelp()

Display the help frame.

```
public void DisplayHelp()
```

DisplayMap()

Display the map frame.

```
public void DisplayMap()
```

DisplayTransition(string, string)

Display a transition frame.

```
public void DisplayTransition(string title, string message)
```

Parameters

title [string](#)

The title.

message [string](#)

The message.

Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

```
public void Dispose()
```

Execute(GameCreationCallback)

Execute a game.

```
public static void Execute(GameCreationCallback creator)
```

Parameters

creator [GameCreationCallback](#)

The creator to use to create the game.

FindInteractionTarget(string)

Find an interaction target within the current scope for this Game.

```
public IInteractWithItem FindInteractionTarget(string name)
```

Parameters

name [string](#)

The targets name.

Returns

[IInteractWithItem](#)

The first IInteractWithItem object which has a name that matches the name parameter.

GetAllPlayerVisibleExaminables()

Get all examinables that are currently visible to the player.

```
public IExaminable[] GetAllPlayerVisibleExaminables()
```

Returns

[IExaminable](#)[]

An array of all examinables that are currently visible to the player.

Delegate GameCreationCallback

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Represents the callback used for Game creation.

```
public delegate Game GameCreationCallback()
```

Returns

[Game](#)

A game created by the callback.

Enum GameState

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Enumeration of game states.

```
public enum GameState
```

Fields

Active = 1

Active.

Finished = 2

Finished.

NotStarted = 0

Not started.

Delegate OverworldCreationCallback

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Represents a callback for Overworld creation.

```
public delegate Overworld OverworldCreationCallback(PlayableCharacter pC)
```

Parameters

pC [PlayableCharacter](#)

The playable character that will appear in the Overworld.

Returns

[Overworld](#)

A generated Overworld.

Delegate PlayerCreationCallback

Namespace: [BPAdventureFramework.Logic](#)

Assembly: BP.AdventureFramework.dll

Represents a callback for Player creation.

```
public delegate PlayableCharacter PlayerCreationCallback()
```

Returns

[PlayableCharacter](#)

A generated Player.

Namespace BP.AdventureFramework.Rendering

Enums

[KeyType](#)

Enumeration of key types.

[RegionMapMode](#)

Enumeration of region map modes.

Enum KeyType

Namespace: [BPAdventureFramework.Rendering](#)

Assembly: BP.AdventureFramework.dll

Enumeration of key types.

```
public enum KeyType
```

Fields

Dynamic = 2

Dynamic key, only show relevant key items.

Full = 1

Full key.

None = 0

No key.

Enum RegionMapMode

Namespace: [BPAdventureFramework.Rendering](#)

Assembly: BP.AdventureFramework.dll

Enumeration of region map modes.

```
public enum RegionMapMode
```

Fields

Detailed = 0

Shows rooms at a detailed level.

Dynamic = 2

Dynamic region map - uses detailed if there is room, else map will be undetailed.

Undetailed = 1

Shows rooms as one character, which allows larger maps to be displayed in a limited area.

Namespace BP.AdventureFramework.Rendering.FrameBuilders

Classes

[FrameBuilderCollection](#)

Provides a collection of all of the frame builders required to run a game.

[FrameBuilderCollections](#)

Provides a container from frame builder collections.

[GridStringBuilder](#)

Provides a class for building strings as part of a grid.

Interfaces

[IAboutFrameBuilder](#)

Represents any object that can build about frames.

[ICompletionFrameBuilder](#)

Represents any object that can build completion frames.

[IConversationFrameBuilder](#)

Represents any object that can build conversation frames.

[IGameOverFrameBuilder](#)

Represents any object that can build game over frames.

[IHelpFrameBuilder](#)

Represents any object that can build help frames.

[IRegionMapBuilder](#)

Represents any object that can build region maps.

[IRegionMapFrameBuilder](#)

Represents any object that can build region map frames.

[IRoomMapBuilder](#)

Represents any object that can build room maps.

[ISceneFrameBuilder](#)

Represents any object that can build scene frames.

[ITitleFrameBuilder](#)

Represents any object that can build title frames.

[ITransitionFrameBuilder](#)

Represents any object that can build transition frames.

Class FrameBuilderCollection

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Provides a collection of all of the frame builders required to run a game.

```
public class FrameBuilderCollection
```

Inheritance

[object](#) ← FrameBuilderCollection

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

FrameBuilderCollection(ITitleFrameBuilder,
ISceneFrameBuilder, IRegionMapFrameBuilder,
IHelpFrameBuilder, ICompletionFrameBuilder,
IGameOverFrameBuilder, IAboutFrameBuilder,
ITransitionFrameBuilder, IConversationFrameBuilder)

Initializes a new instance of the FrameBuilderCollection class.

```
public FrameBuilderCollection(ITitleFrameBuilder titleFrameBuilder,  
ISceneFrameBuilder sceneFrameBuilder, IRegionMapFrameBuilder regionMapFrameBuilder,  
IHelpFrameBuilder helpFrameBuilder, ICompletionFrameBuilder completionFrameBuilder,  
IGameOverFrameBuilder gameOverFrameBuilder, IAboutFrameBuilder aboutFrameBuilder,  
ITransitionFrameBuilder transitionFrameBuilder, IConversationFrameBuilder  
conversationFrameBuilder)
```

Parameters

titleFrameBuilder [ITitleFrameBuilder](#)

The builder to use for building title frames.

`sceneFrameBuilder` [ISceneFrameBuilder](#)

The builder to use for building scene frames.

`regionMapFrameBuilder` [IRegionMapFrameBuilder](#)

The builder to use for building region map frames.

`helpFrameBuilder` [IHelpFrameBuilder](#)

The builder to use for building help frames.

`completionFrameBuilder` [ICompletionFrameBuilder](#)

The builder to use for building completion frames.

`gameOverFrameBuilder` [IGameOverFrameBuilder](#)

The builder to use for building game over frames.

`aboutFrameBuilder` [IAboutFrameBuilder](#)

The builder to use for building about frames.

`transitionFrameBuilder` [ITransitionFrameBuilder](#)

The builder to use for building transition frames.

`conversationFrameBuilder` [IConversationFrameBuilder](#)

The builder to use for building conversation frames.

Properties

AboutFrameBuilder

Get the builder to use for about frames.

```
public IAboutFrameBuilder AboutFrameBuilder { get; }
```

Property Value

[IAboutFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

CompletionFrameBuilder

Get the builder to use for completion frames.

```
public ICompletionFrameBuilder CompletionFrameBuilder { get; }
```

Property Value

[ICompletionFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

ConversationFrameBuilder

Get the builder to use for conversation frames.

```
public IConversationFrameBuilder ConversationFrameBuilder { get; }
```

Property Value

[IConversationFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

GameOverFrameBuilder

Get the builder to use for game over frames.

```
public IGameOverFrameBuilder GameOverFrameBuilder { get; }
```

Property Value

[IGameOverFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

HelpFrameBuilder

Get the builder to use for help frames.

```
public IHelpFrameBuilder HelpFrameBuilder { get; }
```

Property Value

[IHelpFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

RegionMapFrameBuilder

Get the builder to use for region map frames.

```
public IRegionMapFrameBuilder RegionMapFrameBuilder { get; }
```

Property Value

[IRegionMapFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

SceneFrameBuilder

Get the builder to use for scene frames.

```
public ISceneFrameBuilder SceneFrameBuilder { get; }
```

Property Value

[ISceneFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

TitleFrameBuilder

Get the builder to use for title frames.

```
public ITitleFrameBuilder TitleFrameBuilder { get; }
```

Property Value

[ITitleFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

TransitionFrameBuilder

Get the builder to use for transition frames.

```
public ITransitionFrameBuilder TransitionFrameBuilder { get; }
```

Property Value

[ITransitionFrameBuilder](#)

Provides a collection of all of the frame builders required to run a game.

Class FrameBuilderCollections

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Provides a container from frame builder collections.

```
public static class FrameBuilderCollections
```

Inheritance

[object](#) ← FrameBuilderCollections

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Properties

Default

Get the default frame builder collection.

```
public static FrameBuilderCollection Default { get; }
```

Property Value

[FrameBuilderCollection](#)

Provides a container from frame builder collections.

Class GridStringBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Provides a class for building strings as part of a grid.

```
public class GridStringBuilder
```

Inheritance

[object](#) ← GridStringBuilder

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

GridStringBuilder(char, char, char)

Initializes a new instance of the GridStringBuilder class.

```
public GridStringBuilder(char leftBoundaryCharacter = '|', char  
rightBoundaryCharacter = '|', char horizontalDividerCharacter = '-')
```

Parameters

leftBoundaryCharacter [char](#)

The character to use for left boundaries.

rightBoundaryCharacter [char](#)

The character to use for right boundaries.

horizontalDividerCharacter [char](#)

The character to use for horizontal dividers.

Properties

DisplaySize

Get the display size.

```
public Size DisplaySize { get; }
```

Property Value

[Size](#)

Provides a class for building strings as part of a grid.

HorizontalDividerCharacter

Get or set the character used for horizontal dividers.

```
public char HorizontalDividerCharacter { get; set; }
```

Property Value

[char](#)

Provides a class for building strings as part of a grid.

LeftBoundaryCharacter

Get or set the character used for left boundary.

```
public char LeftBoundaryCharacter { get; set; }
```

Property Value

[char](#)

Provides a class for building strings as part of a grid.

LineTerminator

Get or set the line terminator.

```
public string LineTerminator { get; set; }
```

Property Value

[string](#)

Provides a class for building strings as part of a grid.

RightBoundaryCharacter

Get or set the character used for right boundary.

```
public char RightBoundaryCharacter { get; set; }
```

Property Value

[char](#)

Provides a class for building strings as part of a grid.

Methods

DrawBoundary(AnsiColor)

Draw the boundary.

```
public void DrawBoundary(AnsiColor color)
```

Parameters

color [AnsiColor](#)

The color to draw the boundary.

DrawCentralisedWrapped(string, int, int, AnsiColor, out int, out int)

Draw a wrapped string.

```
public void DrawCentralisedWrapped(string value, int startY, int maxWidth, AnsiColor color, out int endX, out int endY)
```

Parameters

value [string](#)

The string.

startY [int](#)

The start y position.

maxWidth [int](#)

The max width of the string.

color [AnsiColor](#)

The color to draw the text.

endX [int](#)

The end x position.

endY [int](#)

The end y position.

DrawHorizontalDivider(int, AnsiColor)

Draw a horizontal divider.

```
public void DrawHorizontalDivider(int y, AnsiColor color)
```

Parameters

y [int](#)

The y position of the divider.

color [AnsiColor](#)

The color to draw the boundary.

DrawUnderline(int, int, int, AnsiColor)

Draw an underline.

```
public void DrawUnderline(int x, int y, int length, AnsiColor color)
```

Parameters

x [int](#)

The position of the underline, in x.

y [int](#)

The position of the underline, in y.

length [int](#)

The length of the underline.

color [AnsiColor](#)

The color of the underline.

DrawWrapped(string, int, int, int, AnsiColor, out int, out int)

Draw a wrapped string.

```
public void DrawWrapped(string value, int startX, int startY, int maxWidth,
AnsiColor color, out int endX, out int endY)
```

Parameters

`value string`

The string.

`startX int`

The start x position.

`startY int`

The start y position.

`maxWidth int`

The max width of the string.

`color AnsiColor`

The color to draw the text.

`endX int`

The end x position.

`endY int`

The end y position.

Flush()

Flush the buffer.

```
public void Flush()
```

GetCellColor(int, int)

Get a color for a cell.

```
public AnsiColor GetCellColor(int x, int y)
```

Parameters

x [int](#)

The x position of the cell.

y [int](#)

The y position of the cell.

Returns

[AnsiColor](#)

The cell color.

GetCharacter(int, int)

Get a character from the buffer.

```
public char GetCharacter(int x, int y)
```

Parameters

x [int](#)

The x position of the character.

y [int](#)

The y position of the character.

Returns

[char](#)

The character.

GetNumberOfLines(string, int, int, int)

Get the number of lines a string will take up.

```
public int GetNumberOfLines(string value, int startX, int startY, int maxWidth)
```

Parameters

value [string](#)

The string.

startX [int](#)

The start x position.

startY [int](#)

The start y position.

maxWidth [int](#)

The max width of the string.

Returns

[int](#)

The number of lines the string will take up.

Resize(Size)

Resize this builder.

```
public void Resize(Size displaySize)
```

Parameters

displaySize [Size](#)

The new size.

SetCell(int, int, char, AnsiColor)

Set a cell.

```
public void SetCell(int x, int y, char character, AnsiColor color)
```

Parameters

x [int](#)

The x position of the cell.

y [int](#)

The y position of the cell.

character [char](#)

The character.

color [AnsiColor](#)

The color of the character.

Interface IAboutFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build about frames.

```
public interface IAboutFrameBuilder
```

Methods

Build(string, Game, int, int)

Build a frame.

```
IFrame Build(string title, Game game, int width, int height)
```

Parameters

title [string](#)

The title.

game [Game](#)

The game.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build about frames.

Interface ICompletionFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build completion frames.

```
public interface ICompletionFrameBuilder
```

Methods

Build(string, string, int, int)

Build a frame.

```
IFrame Build(string message, string reason, int width, int height)
```

Parameters

`message` [string](#)

The message to display to the user.

`reason` [string](#)

The reason the game ended.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build completion frames.

Interface IConversationFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build conversation frames.

```
public interface IConversationFrameBuilder
```

Methods

Build(string, IConverser, CommandHelp[], int, int)

Build a frame.

```
IFrame Build(string title, IConverser converser, CommandHelp[] contextualCommands,  
int width, int height)
```

Parameters

title [string](#)

The title to display to the user.

converser [IConverser](#)

The converser.

contextualCommands [CommandHelp\[\]](#)

The contextual commands to display.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build conversation frames.

Interface IGameOverFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build game over frames.

```
public interface IGameOverFrameBuilder
```

Methods

Build(string, string, int, int)

Build a frame.

```
IFrame Build(string message, string reason, int width, int height)
```

Parameters

message [string](#)

The message to display to the user.

reason [string](#)

The reason the game ended.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build game over frames.

Interface IHelpFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build help frames.

```
public interface IHelpFrameBuilder
```

Methods

Build(string, string, CommandHelp[], int, int)

Build a frame.

```
IFrame Build(string title, string description, CommandHelp[] commandHelp, int width, int height)
```

Parameters

title [string](#)

The title.

description [string](#)

The description.

commandHelp [CommandHelp\[\]](#)

The command help.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build help frames.

Interface IRegionMapBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build region maps.

```
public interface IRegionMapBuilder
```

Methods

BuildRegionMap(GridStringBuilder, Region, int, int, int, int)

Build a map of a region.

```
void BuildRegionMap(GridStringBuilder gridStringBuilder, Region region, int x, int y, int maxWidth, int maxHeight)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

The string builder to use.

region [Region](#)

The region.

x [int](#)

The x position to start building at.

y [int](#)

The y position to start building at.

maxWidth [int](#)

The maximum horizontal space available in which to build the map.

`maxHeight` [int](#)

The maximum vertical space available in which to build the map.

Interface IRegionMapFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build region map frames.

```
public interface IRegionMapFrameBuilder
```

Methods

Build(Region, int, int)

Build a frame.

```
IFrame Build(Region region, int width, int height)
```

Parameters

region [Region](#)

The region.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build region map frames.

Interface IRoomMapBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build room maps.

```
public interface IRoomMapBuilder
```

Methods

BuildRoomMap(GridStringBuilder, Room, ViewPoint, KeyType, int, int, out int, out int)

Build a map for a room.

```
void BuildRoomMap(GridStringBuilder gridStringBuilder, Room room, ViewPoint  
viewPoint, KeyType key, int startX, int startY, out int endX, out int endY)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

The string builder to use.

room [Room](#)

The room.

viewPoint [ViewPoint](#)

The viewpoint from the room.

key [KeyType](#)

The key type.

startX [int](#)

The start position, x.

startY [int](#)

The start position, x.

endX [int](#)

The end position, x.

endY [int](#)

The end position, x.

Interface ISceneFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build scene frames.

```
public interface ISceneFrameBuilder
```

Methods

Build(Room, ViewPoint, PlayableCharacter, string, CommandHelp[], KeyType, int, int)

Build a frame.

```
IFrame Build(Room room, ViewPoint viewPoint, PlayableCharacter player, string message, CommandHelp[] contextualCommands, KeyType keyType, int width, int height)
```

Parameters

room [Room](#)

Specify the Room.

viewPoint [ViewPoint](#)

Specify the viewpoint from the room.

player [PlayableCharacter](#)

Specify the player.

message [string](#) ↴

Any additional message.

contextualCommands [CommandHelp\[\]](#)

The contextual commands to display.

`keyType` [KeyType](#)

The type of key to use.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build scene frames.

Interface ITitleFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build title frames.

```
public interface ITitleFrameBuilder
```

Methods

Build(string, string, int, int)

Build a frame.

```
IFrame Build(string title, string description, int width, int height)
```

Parameters

title [string](#)

The title.

description [string](#)

The description.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build title frames.

Interface ITransitionFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can build transition frames.

```
public interface ITransitionFrameBuilder
```

Methods

Build(string, string, int, int)

Build a frame.

```
IFrame Build(string title, string message, int width, int height)
```

Parameters

title [string](#)

The title to display to the user.

message [string](#)

The message to display to the user.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Represents any object that can build transition frames.

Namespace BP.AdventureFramework.Rendering.FrameBuilders.Color Classes

[ColorAboutFrameBuilder](#)

Provides a builder of color about frames.

[ColorCompletionFrameBuilder](#)

Provides a builder of color completion frames.

[ColorConversationFrameBuilder](#)

Provides a builder of color conversation frames.

[ColorGameOverFrameBuilder](#)

Provides a builder of color game over frames.

[ColorHelpFrameBuilder](#)

Provides a builder of color help frames.

[ColorRegionMapBuilder](#)

Provides a color builder for region maps.

[ColorRegionMapFrameBuilder](#)

Provides a builder of color region map frames.

[ColorRoomMapBuilder](#)

Provides a color room map builder.

[ColorSceneFrameBuilder](#)

Provides a builder for color scene frames.

[ColorTitleFrameBuilder](#)

Provides a builder of color title frames.

[ColorTransitionFrameBuilder](#)

Provides a builder of color transition frames.

Enums

[AnsiColor](#)

Enumeration of ANSI colors.

Enum AnsiColor

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Enumeration of ANSI colors.

```
public enum AnsiColor
```

Fields

Black = 30

Black (30).

Blue = 34

Blue (34).

BrightBlack = 90

Bright black (90).

BrightBlue = 94

Bright blue (94).

BrightCyan = 96

Bright cyan (96).

BrightGreen = 92

Bright green (92).

BrightMagenta = 95

Bright magenta (95).

BrightRed = 91

Bright red (91).

BrightWhite = 97

Bright white (97).

BrightYellow = 93

Bright yellow (93).

Cyan = 36

Cyan (36).

Green = 32

Green (32).

Magenta = 35

Magenta (35).

Red = 31

Red (31).

Reset = 0

Reset (0).

White = 37

White (37).

Yellow = 33

Yellow (33).

Class ColorAboutFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color about frames.

```
public sealed class ColorAboutFrameBuilder : IAboutFrameBuilder
```

Inheritance

[object](#) ← ColorAboutFrameBuilder

Implements

[IAboutFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorAboutFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorAboutFrameBuilder class.

```
public ColorAboutFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

AuthorColor

Get or set the author color.

```
public AnsiColor AuthorColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color about frames.

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color about frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color about frames.

DescriptionColor

Get or set the description color.

```
public AnsiColor DescriptionColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color about frames.

NameColor

Get or set the name color.

```
public AnsiColor NameColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color about frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color about frames.

Methods

Build(string, Game, int, int)

Build a frame.

```
public IFrame Build(string title, Game game, int width, int height)
```

Parameters

title [string](#)

The title.

game [Game](#)

The game.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color about frames.

Class ColorCompletionFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color completion frames.

```
public sealed class ColorCompletionFrameBuilder : ICompletionFrameBuilder
```

Inheritance

[object](#) ← ColorCompletionFrameBuilder

Implements

[ICompletionFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorCompletionFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorCompletionFrameBuilder class.

```
public ColorCompletionFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color completion frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color completion frames.

DescriptionColor

Get or set the description color.

```
public AnsiColor DescriptionColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color completion frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color completion frames.

Methods

Build(string, string, int, int)

Build a frame.

```
public IFrame Build(string message, string reason, int width, int height)
```

Parameters

`message` [string](#)

The message to display to the user.

`reason` [string](#)

The reason the game ended.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color completion frames.

Class ColorConversationFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color conversation frames.

```
public sealed class ColorConversationFrameBuilder : IConversationFrameBuilder
```

Inheritance

[object](#) ← ColorConversationFrameBuilder

Implements

[IConversationFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorConversationFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorConversationFrameBuilder class.

```
public ColorConversationFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

InputColor

Get or set the input color.

```
public AnsiColor InputColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

NonPlayerMessageColor

Get or set the player message color.

```
public AnsiColor NonPlayerMessageColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

PlayerMessageColor

Get or set the player message color.

```
public AnsiColor PlayerMessageColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

ResponseColor

Get or set the response color.

```
public AnsiColor ResponseColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color conversation frames.

Methods

Build(string, IConverser, CommandHelp[], int, int)

Build a frame.

```
public IFrame Build(string title, IConverser converser, CommandHelp[] contextualCommands, int width, int height)
```

Parameters

`title` [string](#)

The title to display to the user.

`converser` [IConverser](#)

The converser.

`contextualCommands` [CommandHelp\[\]](#)

The contextual commands to display.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

IFrame

Provides a builder of color conversion frames.

Class ColorGameOverFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color game over frames.

```
public sealed class ColorGameOverFrameBuilder : IGameOverFrameBuilder
```

Inheritance

[object](#) ← ColorGameOverFrameBuilder

Implements

[IGameOverFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorGameOverFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorGameOverFrameBuilder class.

```
public ColorGameOverFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color game over frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color game over frames.

DescriptionColor

Get or set the description color.

```
public AnsiColor DescriptionColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color game over frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color game over frames.

Methods

Build(string, string, int, int)

Build a frame.

```
public IFrame Build(string message, string reason, int width, int height)
```

Parameters

`message` [string](#) ↗

The message to display to the user.

`reason` [string](#) ↗

The reason the game ended.

`width` [int](#) ↗

The width of the frame.

`height` [int](#) ↗

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color game over frames.

Class ColorHelpFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color help frames.

```
public sealed class ColorHelpFrameBuilder : IHelpFrameBuilder
```

Inheritance

[object](#) ← ColorHelpFrameBuilder

Implements

[IHelpFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorHelpFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorHelpFrameBuilder class.

```
public ColorHelpFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color help frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color help frames.

CommandColor

Get or set the command color.

```
public AnsiColor CommandColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color help frames.

CommandDescriptionColor

Get or set the description color.

```
public AnsiColor CommandDescriptionColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color help frames.

DescriptionColor

Get or set the description color.

```
public AnsiColor DescriptionColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color help frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color help frames.

Methods

Build(string, string, CommandHelp[], int, int)

Build a frame.

```
public IFrame Build(string title, string description, CommandHelp[] commandHelp, int width, int height)
```

Parameters

title [string](#)

The title.

description [string](#)

The description.

commandHelp [CommandHelp\[\]](#)

The command help.

width [int](#)

The width of the frame.

height [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color help frames.

Class ColorRegionMapBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a color builder for region maps.

```
public sealed class ColorRegionMapBuilder : IRegionMapBuilder
```

Inheritance

[object](#) ← ColorRegionMapBuilder

Implements

[IRegionMapBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

CurrentFloorIndicator

Get or set the character to use for the current floor.

```
public char CurrentFloorIndicator { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

EmptySpace

Get or set the character used for representing an empty space.

```
public char EmptySpace { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

HorizontalBoundary

Get or set the character to use for horizontal boundaries.

```
public char HorizontalBoundary { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

LockedExit

Get or set the character used for representing a locked exit.

```
public char LockedExit { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

LockedExitColor

Get or set the locked exit color.

```
public AnsiColor LockedExitColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color builder for region maps.

LowerLevel

Get or set the character to use for lower levels.

```
public char LowerLevel { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

LowerLevelColor

Get or set the lower level color.

```
public AnsiColor LowerLevelColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color builder for region maps.

Player

Get or set the character to use for indicating the player.

```
public char Player { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

PlayerColor

Get or set the player color.

```
public AnsiColor PlayerColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color builder for region maps.

ShowLowerFloors

Get or set if lower floors should be shown.

```
public bool ShowLowerFloors { get; set; }
```

Property Value

[bool](#)

Provides a color builder for region maps.

UnLockedExit

Get or set the character used for representing an unlocked exit.

```
public char UnLockedExit { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

UnvisitedBoundaryColor

Get or set the unvisited room boundary color.

```
public AnsiColor UnvisitedBoundaryColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color builder for region maps.

VerticalBoundary

Get or set the character to use for vertical boundaries.

```
public char VerticalBoundary { get; set; }
```

Property Value

[char](#)

Provides a color builder for region maps.

VisitedBoundaryColor

Get or set the visited room boundary color.

```
public AnsiColor VisitedBoundaryColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color builder for region maps.

Methods

BuildRegionMap(GridStringBuilder, Region, int, int, int, int)

Build a map of a region.

```
public void BuildRegionMap(GridStringBuilder gridStringBuilder, Region region, int  
x, int y, int maxWidth, int maxHeight)
```

Parameters

`gridStringBuilder` [GridStringBuilder](#)

The string builder to use.

`region` [Region](#)

The region.

`x` [int](#)

The x position to start building at.

`y` [int](#)

The y position to start building at.

`maxWidth` [int](#)

The maximum horizontal space available in which to build the map.

`maxHeight` [int](#)

The maximum vertical space available in which to build the map.

Class ColorRegionMapFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color region map frames.

```
public sealed class ColorRegionMapFrameBuilder : IRegionMapFrameBuilder
```

Inheritance

[object](#) ← ColorRegionMapFrameBuilder

Implements

[IRegionMapFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorRegionMapFrameBuilder(GridStringBuilder, IRegionMapBuilder)

Initializes a new instance of the ColorRegionMapFrameBuilder class.

```
public ColorRegionMapFrameBuilder(GridStringBuilder gridStringBuilder,  
IRegionMapBuilder regionMapBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

regionMapBuilder [IRegionMapBuilder](#)

A builder for region maps.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color region map frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color region map frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color region map frames.

Methods

Build(Region, int, int)

Build a frame.

```
public IFrame Build(Region region, int width, int height)
```

Parameters

`region` [Region](#)

The region.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color region map frames.

Class ColorRoomMapBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a color room map builder.

```
public sealed class ColorRoomMapBuilder : IRoomMapBuilder
```

Inheritance

[object](#) ← ColorRoomMapBuilder

Implements

[IRoomMapBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

BoundaryColor

Get or set the room boundary color.

```
public AnsiColor BoundaryColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color room map builder.

Corner

Get or set the character to use for corners.

```
public char Corner { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

HorizontalBoundary

Get or set the character to use for horizontal boundaries.

```
public char HorizontalBoundary { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

HorizontalExitBorder

Get or set the character to use for horizontal exit borders.

```
public char HorizontalExitBorder { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

ItemOrCharacterColor

Get or set the item or character color.

```
public AnsiColor ItemOrCharacterColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color room map builder.

ItemOrCharacterInRoom

Get or set the character used for representing there is an item or a character in the room.

```
public char ItemOrCharacterInRoom { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

KeyPadding

Get or set the padding between the key and the map.

```
public int KeyPadding { get; set; }
```

Property Value

[int](#)

Provides a color room map builder.

LockedExit

Get or set the character used for representing a locked exit.

```
public char LockedExit { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

LockedExitColor

Get or set the locked exit color.

```
public AnsiColor LockedExitColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color room map builder.

UnvisitedExitColor

Get or set the unvisited exit color.

```
public AnsiColor UnvisitedExitColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color room map builder.

VerticalBoundary

Get or set the character to use for vertical boundaries.

```
public char VerticalBoundary { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

VerticalExitBorder

Get or set the character to use for vertical exit borders.

```
public char VerticalExitBorder { get; set; }
```

Property Value

[char](#)

Provides a color room map builder.

VisitedExitColor

Get or set the visited exit color.

```
public AnsiColor VisitedExitColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a color room map builder.

Methods

BuildRoomMap(GridStringBuilder, Room, ViewPoint, KeyType, int, int, out int, out int)

Build a map for a room.

```
public void BuildRoomMap(GridStringBuilder gridStringBuilder, Room room, ViewPoint  
viewPoint, KeyType key, int startX, int startY, out int endX, out int endY)
```

Parameters

`gridStringBuilder` [GridStringBuilder](#)

The string builder to use.

`room` [Room](#)

The room.

`viewPoint` [ViewPoint](#)

The viewpoint from the room.

`key` [KeyType](#)

The key type.

`startX` [int](#)

The start position, x.

`startY` [int](#)

The start position, x.

`endX` [int](#)

The end position, x.

`endY` [int](#)

The end position, x.

Class ColorSceneFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder for color scene frames.

```
public sealed class ColorSceneFrameBuilder : ISceneFrameBuilder
```

Inheritance

[object](#) ← ColorSceneFrameBuilder

Implements

[ISceneFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorSceneFrameBuilder(GridStringBuilder, IRoomMapBuilder)

Initializes a new instance of the ColorSceneFrameBuilder class.

```
public ColorSceneFrameBuilder(GridStringBuilder gridStringBuilder,  
IRoomMapBuilder roomMapBuilder)
```

Parameters

`gridStringBuilder` [GridStringBuilder](#)

A builder to use for the string layout.

`roomMapBuilder` [IRoomMapBuilder](#)

A builder to use for room maps.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder for color scene frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder for color scene frames.

CommandsColor

Get or set the commands color.

```
public AnsiColor CommandsColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder for color scene frames.

DisplayMessagesInIsolation

Get or set if messages should be displayed in isolation.

```
public bool DisplayMessagesInIsolation { get; set; }
```

Property Value

[bool](#)

Provides a builder for color scene frames.

InputColor

Get or set the input color.

```
public AnsiColor InputColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder for color scene frames.

SupressMovementMessages

Get or set if movement messages should be suppressed.

```
public bool SupressMovementMessages { get; set; }
```

Property Value

[bool](#)

Provides a builder for color scene frames.

TextColor

Get or set the text color.

```
public AnsiColor TextColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder for color scene frames.

Methods

Build(Room, ViewPoint, PlayableCharacter, string, CommandHelp[], KeyType, int, int)

Build a frame.

```
public IFrame Build(Room room, ViewPoint viewPoint, PlayableCharacter player, string message, CommandHelp[] contextualCommands, KeyType keyType, int width, int height)
```

Parameters

room [Room](#)

Specify the Room.

viewPoint [ViewPoint](#)

Specify the viewpoint from the room.

player [PlayableCharacter](#)

Specify the player.

message [string](#)

Any additional message.

contextualCommands [CommandHelp\[\]](#)

The contextual commands to display.

`keyType` [KeyType](#)

The type of key to use.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder for color scene frames.

Class ColorTitleFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color title frames.

```
public sealed class ColorTitleFrameBuilder : ITitleFrameBuilder
```

Inheritance

[object](#) ← ColorTitleFrameBuilder

Implements

[ITitleFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorTitleFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorTitleFrameBuilder class.

```
public ColorTitleFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color title frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color title frames.

DescriptionColor

Get or set the description color.

```
public AnsiColor DescriptionColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color title frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color title frames.

Methods

Build(string, string, int, int)

Build a frame.

```
public IFrame Build(string title, string description, int width, int height)
```

Parameters

[title](#) [string](#)

The title.

[description](#) [string](#)

The description.

[width](#) [int](#)

The width of the frame.

[height](#) [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color title frames.

Class ColorTransitionFrameBuilder

Namespace: [BP.AdventureFramework.Rendering.FrameBuilders.Color](#)

Assembly: BP.AdventureFramework.dll

Provides a builder of color transition frames.

```
public sealed class ColorTransitionFrameBuilder : ITransitionFrameBuilder
```

Inheritance

[object](#) ← ColorTransitionFrameBuilder

Implements

[ITransitionFrameBuilder](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ColorTransitionFrameBuilder(GridStringBuilder)

Initializes a new instance of the ColorTransitionFrameBuilder class.

```
public ColorTransitionFrameBuilder(GridStringBuilder gridStringBuilder)
```

Parameters

gridStringBuilder [GridStringBuilder](#)

A builder to use for the string layout.

Properties

BackgroundColor

Get or set the background color.

```
public AnsiColor BackgroundColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color transition frames.

BorderColor

Get or set the border color.

```
public AnsiColor BorderColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color transition frames.

MessageColor

Get or set the message color.

```
public AnsiColor MessageColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color transition frames.

TitleColor

Get or set the title color.

```
public AnsiColor TitleColor { get; set; }
```

Property Value

[AnsiColor](#)

Provides a builder of color transition frames.

Methods

Build(string, string, int, int)

Build a frame.

```
public IFrame Build(string title, string message, int width, int height)
```

Parameters

`title` [string](#)

The title to display to the user.

`message` [string](#)

The message to display to the user.

`width` [int](#)

The width of the frame.

`height` [int](#)

The height of the frame.

Returns

[IFrame](#)

Provides a builder of color transition frames.

Namespace BP.AdventureFramework.Rendering.Frames

Classes

[GridTextFrame](#)

Provides a grid based frame for displaying a command based interface.

[TextFrame](#)

Provides a simple text based frame for displaying a command based interface.

Interfaces

[IFrame](#)

Represents any object that is a frame that can display a command based interface.

Class GridTextFrame

Namespace: [BP.AdventureFramework.Rendering.Frames](#)

Assembly: BP.AdventureFramework.dll

Provides a grid based frame for displaying a command based interface.

```
public sealed class GridTextFrame : IFrame
```

Inheritance

[object](#) ← GridTextFrame

Implements

[IFrame](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

Constructors

GridTextFrame(GridStringBuilder, int, int, AnsiColor)

Initializes a new instance of the GridTextFrame class.

```
public GridTextFrame(GridStringBuilder builder, int cursorLeft, int cursorTop,  
AnsiColor backgroundColor)
```

Parameters

builder [GridStringBuilder](#)

The builder that creates the frame.

cursorLeft [int](#)

The cursor left position.

cursorTop [int](#)

The cursor top position.

backgroundColor [AnsiColor](#)

The background color.

Properties

AcceptsInput

Get or set if this Frame accepts input.

```
public bool AcceptsInput { get; set; }
```

Property Value

[bool](#) ↗

Provides a grid based frame for displaying a command based interface.

BackgroundColor

Get the background color.

```
public AnsiColor BackgroundColor { get; }
```

Property Value

[AnsiColor](#)

Provides a grid based frame for displaying a command based interface.

CursorLeft

Get the cursor left position.

```
public int CursorLeft { get; }
```

Property Value

[int](#) ↗

Provides a grid based frame for displaying a command based interface.

CursorTop

Get the cursor top position.

```
public int CursorTop { get; }
```

Property Value

[int](#) ↗

Provides a grid based frame for displaying a command based interface.

ShowCursor

Get or set if the cursor should be shown.

```
public bool ShowCursor { get; set; }
```

Property Value

[bool](#) ↗

Provides a grid based frame for displaying a command based interface.

Methods

Render(TextWriter)

Render this frame on a writer.

```
public void Render(TextWriter writer)
```

Parameters

writer [TextWriter](#)

The writer.

ToString()

Returns a string that represents the current object.

```
public override string ToString()
```

Returns

[string](#)

A string that represents the current object.

Interface IFrame

Namespace: [BPAdventureFramework.Rendering.Frames](#)

Assembly: BP.AdventureFramework.dll

Represents any object that is a frame that can display a command based interface.

```
public interface IFrame
```

Properties

AcceptsInput

Get or set if this Frame accepts input.

```
bool AcceptsInput { get; set; }
```

Property Value

[bool](#) ↗

Represents any object that is a frame that can display a command based interface.

CursorLeft

Get the cursor left position.

```
int CursorLeft { get; }
```

Property Value

[int](#) ↗

Represents any object that is a frame that can display a command based interface.

CursorTop

Get the cursor top position.

```
int CursorTop { get; }
```

Property Value

[int](#)

Represents any object that is a frame that can display a command based interface.

ShowCursor

Get or set if the cursor should be shown.

```
bool ShowCursor { get; set; }
```

Property Value

[bool](#)

Represents any object that is a frame that can display a command based interface.

Methods

Render(TextWriter)

Render this frame on a writer.

```
void Render(TextWriter writer)
```

Parameters

[writer](#) [TextWriter](#)

The writer.

Class TextFrame

Namespace: [BP.AdventureFramework.Rendering.Frames](#)

Assembly: BP.AdventureFramework.dll

Provides a simple text based frame for displaying a command based interface.

```
public sealed class TextFrame : IFrame
```

Inheritance

[object](#) ← TextFrame

Implements

[IFrame](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

Constructors

TextFrame(string, int, int)

Initializes a new instance of the TextFrame class.

```
public TextFrame(string frameData, int cursorLeft, int cursorTop)
```

Parameters

frameData [string](#)

The data the frame provides.

cursorLeft [int](#)

The cursor left position.

cursorTop [int](#)

The cursor top position.

Properties

AcceptsInput

Get or set if this Frame accepts input.

```
public bool AcceptsInput { get; set; }
```

Property Value

[bool](#)

Provides a simple text based frame for displaying a command based interface.

CursorLeft

Get the cursor left position.

```
public int CursorLeft { get; }
```

Property Value

[int](#)

Provides a simple text based frame for displaying a command based interface.

CursorTop

Get the cursor top position.

```
public int CursorTop { get; }
```

Property Value

[int](#)

Provides a simple text based frame for displaying a command based interface.

ShowCursor

Get or set if the cursor should be shown.

```
public bool ShowCursor { get; set; }
```

Property Value

[bool](#)

Provides a simple text based frame for displaying a command based interface.

Methods

Render(TextWriter)

Render this frame on a writer.

```
public void Render(TextWriter writer)
```

Parameters

[writer](#) [TextWriter](#)

The writer.

ToString()

Returns a string that represents the current object.

```
public override string ToString()
```

Returns

[string](#)

A string that represents the current object.

Namespace BP.AdventureFramework.Utilities

Classes

[OverworldMaker](#)

Provides a class for helping to make Regions.

[RegionMaker](#)

Provides a class for helping to make Regions.

Interfaces

[IAssetTemplate<T>](#)

Represents any object that is a template for an asset.

Interface IAssetTemplate<T>

Namespace: [BPAdventureFramework.Utilities](#)

Assembly: BP.AdventureFramework.dll

Represents any object that is a template for an asset.

```
public interface IAssetTemplate<out T>
```

Type Parameters

T

The type of asset being templated.

Methods

Instantiate()

Instantiate a new instance of the templated asset.

```
T Instantiate()
```

Returns

T

The asset.

Class OverworldMaker

Namespace: [BPAdventureFramework.Utilities](#)

Assembly: BP.AdventureFramework.dll

Provides a class for helping to make Regions.

```
public sealed class OverworldMaker
```

Inheritance

[object](#) ← OverworldMaker

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

OverworldMaker(Identifier, Description, params RegionMaker[])

Initializes a new instance of the OverworldMaker class.

```
public OverworldMaker(Identifier identifier, Description description, params  
RegionMaker[] regionMakers)
```

Parameters

identifier [Identifier](#)

An identifier for the region.

description [Description](#)

A description for the region.

regionMakers [RegionMaker\[\]](#)

The region makes to use to construct regions.

OverworldMaker(string, string, params RegionMaker[])

Initializes a new instance of the OverworldMaker class.

```
public OverworldMaker(string identifier, string description, params  
RegionMaker[] regionMakers)
```

Parameters

identifier [string](#)

An identifier for the region.

description [string](#)

A description for the region.

regionMakers [RegionMaker](#)[]

The region makes to use to construct regions.

Methods

Make()

Make an overworld.

```
public Overworld Make()
```

Returns

[Overworld](#)

The created overworld.

Class RegionMaker

Namespace: [BP.AdventureFramework.Utilities](#)

Assembly: BP.AdventureFramework.dll

Provides a class for helping to make Regions.

```
public sealed class RegionMaker
```

Inheritance

[object](#) ← RegionMaker

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

RegionMaker(Identifier, Description)

Initializes a new instance of the RegionMaker class.

```
public RegionMaker(Identifier identifier, Description description)
```

Parameters

identifier [Identifier](#)

An identifier for the region.

description [Description](#)

A description for the region.

RegionMaker(string, string)

Initializes a new instance of the RegionMaker class.

```
public RegionMaker(string identifier, string description)
```

Parameters

identifier [string](#)

An identifier for the region.

description [string](#)

A description for the region.

Properties

this[int, int, int]

Get or set the room at a location.

```
public Room this[int x, int y, int z] { get; set; }
```

Parameters

x [int](#)

The x position.

y [int](#)

The y position.

z [int](#)

The z position.

Property Value

[Room](#)

The room.

Methods

CanPlaceRoom(int, int, int)

Determine if a room can be placed at a location

```
public bool CanPlaceRoom(int x, int y, int z)
```

Parameters

x [int](#)

The X position.

y [int](#)

The Y position.

z [int](#)

The Z position.

Returns

[bool](#)

True if the room can be placed, else false.

GetRoomPositions()

Get all current room positions.

```
public RoomPosition[] GetRoomPositions()
```

Returns

[RoomPosition\[\]](#)

The room positions.

Make()

Make a region.

```
public Region Make()
```

Returns

[Region](#)

The created region.

Make(RoomPosition)

Make a region.

```
public Region Make(RoomPosition startPosition)
```

Parameters

[startPosition RoomPosition](#)

The start position.

Returns

[Region](#)

The created region.

Make(int, int, int)

Make a region.

```
public Region Make(int x, int y, int z)
```

Parameters

x [int](#)

The start x position.

y [int](#)

The start y position.

z [int](#)

The start z position.

Returns

[Region](#)

The created region.

Namespace BP.AdventureFramework. Utilities.Generation Classes

[GameGenerationOptions](#)

Provides options for generating games.

[GameGenerator](#)

Represents a class for generating games.

Interfaces

[IDescriptionGenerator](#)

Represents a generator for descriptions.

[IExaminableGenerator](#)

Represents any object that provides examinable generation.

[IItemGenerator](#)

Represents any object that can generate items.

[IRegionGenerator](#)

Represents any object that can generate a region.

[IRoomGenerator](#)

Represents any object that is a room generator.

Class GameGenerationOptions

Namespace: [BPAdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Provides options for generating games.

```
public sealed class GameGenerationOptions
```

Inheritance

[object](#) ← GameGenerationOptions

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

MaximumRegions

Get the maximum regions.

```
public uint MaximumRegions { get; set; }
```

Property Value

[uint](#)

Provides options for generating games.

MaximumRooms

Get the maximum rooms.

```
public uint MaximumRooms { get; set; }
```

Property Value

[uint](#) ↗

Provides options for generating games.

MinimumRegions

Get the minimum regions.

```
public uint MinimumRegions { get; set; }
```

Property Value

[uint](#) ↗

Provides options for generating games.

MinimumRooms

Get the minimum rooms.

```
public uint MinimumRooms { get; set; }
```

Property Value

[uint](#) ↗

Provides options for generating games.

RegionComplexity

Get or set the complexity of the regions - higher numbers are more complex, lower numbers are less complex.

```
public uint RegionComplexity { get; set; }
```

Property Value

[uint](#)

Provides options for generating games.

RoomToItemRatio

Get the ratio of rooms to items.

```
public double RoomToItemRatio { get; set; }
```

Property Value

[double](#)

Provides options for generating games.

Class GameGenerator

Namespace: [BPAdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Represents a class for generating games.

```
public sealed class GameGenerator
```

Inheritance

[object](#) ← GameGenerator

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

GameGenerator(Identifier, Description)

Initializes a new instance of the OverworldMaker class.

```
public GameGenerator(Identifier identifier, Description description)
```

Parameters

`identifier` [Identifier](#)

An identifier for the region.

`description` [Description](#)

A description for the region.

GameGenerator(string, string)

Initializes a new instance of the GameGenerator class.

```
public GameGenerator(string identifier, string description)
```

Parameters

`identifier` [string](#)

An identifier for the region.

`description` [string](#)

A description for the region.

Methods

`Generate(GameGenerationOptions, ITheme, out int)`

Generate an OverworldMaker.

```
public OverworldMaker Generate(GameGenerationOptions options, ITheme theme, out int seed)
```

Parameters

`options` [GameGenerationOptions](#)

The generation options.

`theme` [ITheme](#)

The theme.

`seed` [int](#)

The seed used for generation.

Returns

[OverworldMaker](#)

The generated overworld maker.

Generate(int, GameGenerationOptions, ITheme)

Generate an OverworldMaker.

```
public OverworldMaker Generate(int seed, GameGenerationOptions options,  
ITheme theme)
```

Parameters

seed [int](#)

The see to use for generation.

options [GameGenerationOptions](#)

The generation options.

theme [ITheme](#)

The theme.

Returns

[OverworldMaker](#)

The created overworld maker.

Interface IDescriptionGenerator

Namespace: [BPAdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Represents a generator for descriptions.

```
public interface IDescriptionGenerator
```

Methods

Generate(Identifier)

Generate a description.

```
Description Generate(Identifier identifier)
```

Parameters

`identifier` [Identifier](#)

The identifier to generate the description for.

Returns

[Description](#)

The description.

Interface IExaminableGenerator

Namespace: [BP.AdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Represents any object that provides examinable generation.

```
public interface IExaminableGenerator
```

Methods

Generate(Random)

Generate an examinable.

```
IExaminable Generate(Random generator)
```

Parameters

generator [Random](#)

The generator.

Returns

[IExaminable](#)

The generated examinable.

Interface IItemGenerator

Namespace: [BPAdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can generate items.

```
public interface IItemGenerator
```

Methods

Generate(Random)

Generate an item.

```
Item Generate(Random generator)
```

Parameters

generator [Random](#)

The generator.

Returns

[Item](#)

The generated item.

Interface IRegionGenerator

Namespace: [BPAdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Represents any object that can generate a region.

```
public interface IRegionGenerator
```

Methods

GenerateRegion(Identifier, Description, Random, IRoomGenerator, IItemGenerator, IItemGenerator, GameGenerationOptions)

Generate a region.

```
RegionMaker GenerateRegion(Identifier identifier, Description description, Random generator, IRoomGenerator roomGenerator, IItemGenerator takeableItemGenerator, IItemGenerator nonTakeableItemGenerator, GameGenerationOptions options)
```

Parameters

identifier [Identifier](#)

The region identifier.

description [Description](#)

The region description.

generator [Random](#) ↴

The generator.

roomGenerator [IRoomGenerator](#)

The room generator.

`takeableItemGenerator` [IItemGenerator](#)

The item generator for takeable items.

`nonTakeableItemGenerator` [IItemGenerator](#)

The item generator for non-takeable items.

`options` [GameGenerationOptions](#)

The generation options.

Returns

[RegionMaker](#)

The generated region maker.

Interface IRoomGenerator

Namespace: [BPAdventureFramework.Utilities.Generation](#)

Assembly: BP.AdventureFramework.dll

Represents any object that is a room generator.

```
public interface IRoomGenerator
```

Methods

GenerateRooms(RegionMaker, Random, GameGenerationOptions)

Generate the rooms.

```
void GenerateRooms(RegionMaker regionMaker, Random generator,  
GameGenerationOptions options)
```

Parameters

regionMaker [RegionMaker](#)

The region maker.

generator [Random](#)

The generator.

options [GameGenerationOptions](#)

The game generation options.

Namespace BP.AdventureFramework. Utilities.Generation.Simple Classes

[ExaminableGenerator](#)

Provides a examinable generator.

[ItemGenerator](#)

Provides an item generator.

[RegionGenerator](#)

Provides a region generator.

Interfaces

[ITheme](#)

Represents a theme that can be used for simple generation.

Class ExaminableGenerator

Namespace: [BP.AdventureFramework.Utilities.Generation.Simple](#)

Assembly: BP.AdventureFramework.dll

Provides a examinable generator.

```
public sealed class ExaminableGenerator : IExaminableGenerator
```

Inheritance

[object](#) ← ExaminableGenerator

Implements

[IExaminableGenerator](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ExaminableGenerator(IEnumerable<string>,
IEnumerable<string>, IDescriptionGenerator, bool)

Initializes a new instance of the ExaminableGenerator class.

```
public ExaminableGenerator(IEnumerable<string> nouns, IEnumerable<string>  
adjectives, IDescriptionGenerator descriptionGenerator, bool allowReuse)
```

Parameters

nouns [IEnumerable](#)<string>

The nouns.

adjectives [IEnumerable](#)<string>

The adjectives.

`descriptionGenerator` [IDescriptionGenerator](#)

A generator to use for generating descriptions.

`allowReuse` [bool](#)

If reuse of nouns or adjectives are used.

Methods

Generate(Random)

Generate an examinable.

```
public IExaminable Generate(Random generator)
```

Parameters

`generator` [Random](#)

The generator.

Returns

[IExaminable](#)

The generated examinable.

Interface ITheme

Namespace: [BP.AdventureFramework.Utilities.Generation.Simple](#)

Assembly: BP.AdventureFramework.dll

Represents a theme that can be used for simple generation.

```
public interface ITheme
```

Properties

Name

Get the name.

```
string Name { get; }
```

Property Value

[string](#)

Represents a theme that can be used for simple generation.

NonTakeableItemAdjectives

Get the non-takeable item adjectives.

```
string[] NonTakeableItemAdjectives { get; }
```

Property Value

[string](#)[]

Represents a theme that can be used for simple generation.

NonTakeableItemNouns

Get the non-takeable item nouns.

```
string[] NonTakeableItemNouns { get; }
```

Property Value

[string](#)[]

Represents a theme that can be used for simple generation.

RoomAdjectives

Get the room adjectives.

```
string[] RoomAdjectives { get; }
```

Property Value

[string](#)[]

Represents a theme that can be used for simple generation.

RoomNouns

Get the room nouns.

```
string[] RoomNouns { get; }
```

Property Value

[string](#)[]

Represents a theme that can be used for simple generation.

TakeableItemAdjectives

Get the takeable item adjectives.

```
string[] TakeableItemAdjectives { get; }
```

Property Value

[string](#)[]

Represents a theme that can be used for simple generation.

TakeableItemNouns

Get the takeable item nouns.

```
string[] TakeableItemNouns { get; }
```

Property Value

[string](#)[]

Represents a theme that can be used for simple generation.

Class ItemGenerator

Namespace: [BP.AdventureFramework.Utilities.Generation.Simple](#)

Assembly: BP.AdventureFramework.dll

Provides an item generator.

```
public sealed class ItemGenerator : IItemGenerator
```

Inheritance

[object](#) ← ItemGenerator

Implements

[IItemGenerator](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ItemGenerator(IExaminableGenerator, bool)

Initializes a new instance of the ItemGenerator class.

```
public ItemGenerator(IExaminableGenerator examinableGenerator, bool isTakeable)
```

Parameters

examinableGenerator [IExaminableGenerator](#)

An examinable generator.

isTakeable [bool](#)

True if the generated items are takeable, else false.

Methods

Generate(Random)

Generate an item.

```
public Item Generate(Random generator)
```

Parameters

generator [Random](#)

The generator.

Returns

[Item](#)

The generated item.

Class RegionGenerator

Namespace: [BP.AdventureFramework.Utilities.Generation.Simple](#)

Assembly: BP.AdventureFramework.dll

Provides a region generator.

```
public sealed class RegionGenerator : IRegionGenerator
```

Inheritance

[object](#) ← RegionGenerator

Implements

[IRegionGenerator](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Methods

GenerateRegion(Identifier, Description, Random, IRoomGenerator, IItemGenerator, IItemGenerator, GameGenerationOptions)

Generate a region.

```
public RegionMaker GenerateRegion(Identifier identifier, Description description,  
Random generator, IRoomGenerator roomGenerator, IItemGenerator  
takeableItemGenerator, IItemGenerator nonTakeableItemGenerator,  
GameGenerationOptions options)
```

Parameters

identifier [Identifier](#)

The region identifier.

`description` [Description](#)

The region description.

`generator` [Random](#) ↗

The generator.

`roomGenerator` [IRoomGenerator](#)

The room generator.

`takeableItemGenerator` [IItemGenerator](#)

The item generator for takeable items.

`nonTakeableItemGenerator` [IItemGenerator](#)

The item generator for non-takeable items.

`options` [GameGenerationOptions](#)

The generation options.

Returns

[RegionMaker](#)

The generated region maker.

Namespace BP.AdventureFramework. Utilities.Generation.Themes

Classes

[Castle](#)

Provides the castle theme.

Class Castle

Namespace: [BP.AdventureFramework.Utilities.Generation.Themes](#)

Assembly: BP.AdventureFramework.dll

Provides the castle theme.

```
public sealed class Castle : ITheme
```

Inheritance

[object](#) ← Castle

Implements

[ITheme](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

Name

Get the name.

```
public string Name { get; }
```

Property Value

[string](#)

Provides the castle theme.

NonTakeableItemAdjectives

Get the non-takeable item adjectives.

```
public string[] NonTakeableItemAdjectives { get; }
```

Property Value

[string](#)[]

Provides the castle theme.

NonTakeableItemNouns

Get the non-takeable item nouns.

```
public string[] NonTakeableItemNouns { get; }
```

Property Value

[string](#)[]

Provides the castle theme.

RoomAdjectives

Get the room adjectives.

```
public string[] RoomAdjectives { get; }
```

Property Value

[string](#)[]

Provides the castle theme.

RoomNouns

Get the room nouns.

```
public string[] RoomNouns { get; }
```

Property Value

[string](#)[]

Provides the castle theme.

TakeableItemAdjectives

Get the takeable item adjectives.

```
public string[] TakeableItemAdjectives { get; }
```

Property Value

[string](#)[]

Provides the castle theme.

TakeableItemNouns

Get the takeable item nouns.

```
public string[] TakeableItemNouns { get; }
```

Property Value

[string](#)[]

Provides the castle theme.