# **Getting Started**

# Adding the NuGet package to your project

You need to pull BP.AdventureFramework into your project. The easiest way to do this is to add the NuGet package. The latest package and installation instructions are available here (getting-tarted (getting-tarted) (https://github.com/benpollarduk/BP.AdventureFramework/pkgs/nuget/BP.AdventureFramework). started.html)

## First Game

Items (items.html)
Once the package has been installed it's time to jump in and start building your first game.

+ Characters

## Seconditional Descriptions

To Ganditionate a new Console application. Regardless of target framework, it should look something like this: descriptions.html)

```
CommandsBP.AdventureFramework.GettingStarted
(commands.html)
   internal class Program
Frame Builders (frame-
builders.html)
{
End Conditions (end-
conditions.html)
   }
}
```

## Adding a PlayableCharacter

Every game requires a character to play as, lets add that next:

```
private static PlayableCharacter CreatePlayer()
{
    return new PlayableCharacter("Dave", "A young boy on a quest to find the meaning of life.");
}
```

In this example whenever **CreatePlayer** is called a new **PlayableCharacter** will be created. The character is called "Dave" and has a description that describes him as "A young boy on a guest to find the meaning of life.".

## Creating the game world

The game world consists of a hierarchy of three tiers: **Overworld**, **Region** and **Room**. We will create a simple **Region** with two **Rooms**. We can do this directly in the **Main** function for simplicity. To start with lets make the **Rooms**:

```
▼
private static void Main(string[] args)
{
```

Getting:Started (getting:oom("Cavern", "A dark cavern set in to the base of the mountai started transition. North));

- + Locations unnel = new Room("Tunnel", "A dark tunnel leading inside the mountain.", ne w Exit(Direction.South)); Items (items.html)
- + Characters

Although the Ragnes carpet been added to a **Region** yet there are exits in place that will allow the player to move between them.

Gadescaiptions, without Items to interact with, let's add an item to the tunnel:

#### **Commands**

```
(commands.html) new Item("Holy Grail", "A dull golden cup, looks pretty old.", true);
```

Frame Builders (frame-

builders.html; (holyGrail);

**End Conditions (end-**

Looking good, but the **Rooms** need to be contained within a **Region**. **RegionMaker** simplifies this process, but sometimes creating a **Region** directly may be more appropriate if more control is needed. Here we will use **RegionMaker**:

```
var regionMaker = new RegionMaker("Mountain", "An imposing volcano just East of tow
n.")
{
    [0, 0, 0] = cavern,
    [0, 1, 0] = tunnel
};
```

This needs more breaking down. The **RegionMaker** will create a region called "Mountain" with a description of "An imposing volcano just East of town." The region will contain two rooms, the cavern and the tunnel. The cavern will be added at position  $x \ 0$ ,  $y \ 0$ ,  $z \ 0$ . The tunnel will be added at position  $x \ 0$ ,  $y \ 1$ ,  $z \ 0$ , north of the cavern.

The game world is nearly complete, but the **Region** needs to exist within an **Overworld** for it to be finished. We will use **OverworldMaker** to achieve this:

```
var overworldMaker = new OverworldMaker("Daves World", "An ancient kingdom.", region
Maker);
```

This will create an **Overworld** called "Daves World" which is described as "An ancient kingdom" and contains a single **Region**.

All together the code looks like this:

```
_var cavern = new Room("Cavern", "A dark cavern set in to the base of the mountain.",
 ▼new Exit(Direction.North));
 Getting Started (getting "Tunnel", "A dark tunnel leading inside the mountain.", new Ex
  it(Direction.South));
started.html)
+ Lyocation Grail = new Item("Holy Grail", "A dull golden cup, looks pretty old.", tru
  Items (items.html)
   tunnel.AddItem(holyGrail);
+ Characters
  var regionMaker = new RegionMaker("Mountain", "An imposing volcano just East of tow
  (conditional-
  descriptions@htmlpavern,
       [0, 1, 0] = tunnel
  Commands
  (commands.html)
  var overworldMaker = new OverworldMaker("Daves World", "An ancient kingdom.", region
  Frame-Builders (frame-
  builders.html)
```

## **End Conditions (end-**

## Chacking nithine game is complete

For a game to come to an end it needs to reach either a game over state or a completion state.

Firstly lets look at the logic that determines if the game is complete. An **EndCheck** is required, which returns an **EndCheckResult** that determines if the game is complete.

In this example lets make a method that determines if the game is complete. The game is complete if the player has the holy grail:

```
private static EndCheckResult IsGameComplete(Game game)
{
   if (!game.Player.FindItem("Holy Grail", out _))
     return EndCheckResult.NotEnded;

   return new EndCheckResult(true, "Game Complete", "You have the Holy Grail!");
}
```

If the player has the holy grail then the **EndCheckResult** will return that the game has ended, and have a title that will read "Game Complete" and a description that reads "You have the Holy Grail!".

A common game over state may be if the player dies:

```
private static EndCheckResult IsGameOver(Game game)
      if (game.Player.IsAlive)
          return EndCheckResult.NotEnded;
 ₹
      return new EndCheckResult(true, "Game Over", "You died!");
  }
 Getting Started (getting-
 started.html)
Creating the game
```

The game now has all the required assets and logic it just needs some boilerplate to tie everything together beltems (items thin)

A CARRECTERION CAIlback is required to instantiate an instance of a Game. This is so that new instances of the Game can be created as required.
Conditional Descriptions

```
(conditional-
descriptions thing Game. Create(
"The Life Of Dave",
Commands awakes to find himself in a cavern...",
(cominands:/html)budget adventure.",
     x => overworldMaker.Make(),
FramerBuilders (frame-
builders: Ang Any plete,
     IsGameOver);
End Conditions (end-
```

conditions.html)

This requires some breaking down. The **Game** class has a **Create** method that can be used to create instances of **Game**. This takes the following arguments:

- Name the name of the game.
- **Introduction** an introduction to the game.
- **Description** a description of the game.
- OverworldGenerator a callback for generating instances of the overworld.
- PlayerGenerator a callback for generating instances of the player.
- CompletionCondition a callback for determining if the game is complete.
- GameOverCondition a callback for determining if the game is over.

## Executing the game

The game is executed simply by calling the static **Execute** method on **Game** and passing in the game creation callback.

```
Game.Execute(gameCreator);
```

## Bringing it all together

The full example code should look like this:

```
using BP.AdventureFramework.Assets;
  using BP.AdventureFramework.Assets.Characters;
  using BP.AdventureFramework.Assets.Locations;
  using BP.AdventureFramework.Logic;
  using BP.AdventureFramework.Utilities;
  namespace BP.AdventureFramework.GettingStarted
 started.html)
          private static EndCheckResult IsGameComplete(Game game)
+ Locations
 Items (items.html)! game.Player | FindItem("Holy Grail", out _))
                  return EndCheckResult.NotEnded;
+ Characters
              return new EndCheckResult(true, "Game Complete", "You have the Holy Grai
 Conditional Descriptions
 (conditional-
 Commands
 (commands.html)game.Player.IsAlive)
                  return EndCheckResult.NotEnded;
 Frame Builders (frame-
 builders.htmly eturn new EndCheckResult(true, "Game Over", "You died!");
 End Conditions (end-
 conditions.html static PlayableCharacter CreatePlayer()
              return new PlayableCharacter("Dave", "A young boy on a quest to find the
  meaning of life.");
          private static void Main(string[] args)
              var cavern = new Room("Cavern", "A dark cavern set in to the base of the
  mountain.", new Exit(Direction.North));
              var tunnel = new Room("Tunnel", "A dark tunnel leading inside the mounta
   in.", new Exit(Direction.South));
              var holyGrail = new Item("Holy Grail", "A dull golden cup, looks pretty
  old.", true);
              tunnel.AddItem(holyGrail);
              var regionMaker = new RegionMaker("Mountain", "An imposing volcano just
  East of town.")
                  [0, 0, 0] = cavern,
                  [0, 1, 0] = tunnel
              };
```

```
var overworldMaker = new OverworldMaker("Daves World", "An ancient kingd
   om.", regionMaker);
                var gameCreator = Game.Create(
                     "The Life Of Dave",
                     "Dave awakes to find himself in a cavern...",
  ₹
                     "A very low budget adventure.",
                     x => overworldMaker.Make(),
  Getting Started (getting Player,
  started.html)
                     IsGameComplete,
                     IsGameOver);
+ Locations
  Items (items.html) Game.Execute(gameCreator);
+ Characters
  Conditional Descriptions
(conditional-
Simply build and run the application and congratulations, you have a working BP.AdventureFramework game! descriptions.html)
  Commands
  (commands.html)
  Frame Builders (frame-
  builders.html)
  End Conditions (end-
  conditions.html)
```

# Overworld

# **Qverview**Filter by title

An Overworld is the top level location in a game. A game can only contain a single Overworld. An Overworld can contain multiple Regions.

Getting Started (getting-

#### started.html)

Overworld

Locations

```
Overworld (6Werworld.html)
Region (region.html)
Room (room.html)
Room (room.html)
Exit (exit.html)
Room
```

Items (items html)

+ Characters

# Conditional Descriptions

(conditional-

And exemptions. herail pply instantiated with a name and description.

```
Commands
```

```
(commands.html) new Overworld("Name", "Description.");
```

Frame Builders (frame-

Regions can be added to the Overworld with the **AddRegion** method.

```
End Conditions (end-
overworfd: AddRegion (region);
conditions.html)
```

Regions can be removed from an Overworld with the **RemoveRegion** method.

```
overworld.RemoveRegion(region);
```

The Overworld can be traversed with the **Move** method.

```
overworld.Move(region);
```

## OverworldMaker

The OverworldMaker simplifies the creation of the Overworld, when used in conjunction with RegionMakers.

```
var overworldMaker = new OverworldMaker("Name", "Description.", regionMakers);
```

However, the main benefit of using an OverworldMaker is that it allows multiple instances of an Overworld to be created from a single definition of an Overworld.

Ŧ

var overworld = overworldMaker.Make();
Getting Started (gettingstarted.html)

#### - Locations

Overworld (overworld.html)
Region (region.html)
Room (room.html)
Exit (exit.html)

Items (items.html)

#### + Characters

Conditional Descriptions (conditional-descriptions.html)

Commands (commands.html)

Frame Builders (framebuilders.html)

# Region

A Region is the intermediate level location in a game. An Overworld can contain multiple Regions. A Region can contain multiple Rooms Getting Started (getting-

#### started.html)

**Overworld** 

## - Locations

Overworld (80 erworld.html) Region (region.html) Room (room.html)

Items (items html)

#### + Characters

A Region represents a 3D space.

#### **Conditional Descriptions**

(conditional always refers to the horizontal axis, with lower values being west and higher values being

descriptions.html)

• The y location always refers to the vertical axis, with lower values being south and higher values being

#### Commands

(commands:infinity) ways refers to the depth axis, with lower values being down and higher values being up.

## Frame Builders (frame--builders.html)

A Region can be simply instantiated with a name and description.

#### conditions.html)

```
var region = new Region("Name", "Description.");
```

Rooms can be added to the Region with the **AddRoom** method. The x, y and z location within the Region must be specified.

```
region.AddRoom(room, 0, 0, 0);
```

Rooms can be removed from a Region with the **RemoveRoom** method.

```
region.RemoveRoom(room);
```

The Region can be traversed with the **Move** method.

```
region.Move(Direction.North);
```

The start position, that is the position that the Player will start in when entering a Region, can be specified with **SetStartPosition**.

```
₹
```

```
region.SetStartPosition(0, 0, 0);
Getting Started (getting-
started.html)
```

The **UnlockDoorPair** method can be used to unlock an **Exit** in the current Room, which will also unlock the colregations Exit in the adjoining **Room**.

```
Overworld (overworld.html)
rខិទ្ធាស្កា (repworld)Pair(Direction.East);
Room (room.html)
Exit (exit.html)
```

Like all Examinable objects, Regions can be assigned custom commands.

Items (items.html)

+ Characters mands =

```
Conditional Descriptions
(Genditional-
descriptions.html)
    region.JumpToRoom(0, 0, 0);

Commandsturn new Reaction(ReactionResult.OK, "You warped to the start.");
(commands.html)
];
Frame Builders (frame-
builders.html)
```

# Fediopilonakel

The RegionMaker simplifies the creation of a Region. Rooms are added to the Region with a specified **x**, **y** and **z** position within the Region.

```
var regionMaker = new RegionMaker("Region", "Description.")
{
    [0, 0, 0] = new Room("Room 1", "Description of room 1."),
    [1, 0, 0] = new Room("Room 2", "Description of room 2."),
};
```

The main benefit of using a RegionMaker is that it allows multiple instances of a Region to be created from a single definition of a Region.

```
var region = regionMaker.Make();
```

## ₹

## Getting Started (gettingstarted.html)

#### - Locations

Overworld (overworld.html)
Region (region.html)
Room (room.html)
Exit (exit.html)

## Items (items.html)

#### + Characters

Conditional Descriptions (conditional-descriptions.html)

Commands (commands.html)

Frame Builders (framebuilders.html)

## Room

# **Qverview**Filter by title

A Room is the lowest level location in a game. A Region can contain multiple Rooms.

## **Getting Started (getting-**

#### started.html)

├─ Region

- Location s<sub>Room</sub>

```
Overworld (800 erworld.html)
Region (region.html)
Room (room.html)
Room (exit.html)
Exit (exit.html)
```

Items (items.html)

A Characters nain up to six Exits, one for each of the directions north, east, south, west, up and down.

## Conditional Descriptions

Us Chitional-

A Region can be simply instantiated with a name and description.

**Commands** 

```
(cammands.html)oom("Name", "Description.");
```

Frame Builders (frame-

Exhibiters. Intrody to the Room with the AddExit method.

```
End Conditions (end-
```

```
conditions.htmpw Exit(Direction.East));
```

Exits can be removed from a Room with the **RemoveExit** method.

```
region.RemoveExit(exit);
```

Items can be added to the Room with the **Additem** method.

```
room.AddItem(new Item("Name", "Description."));
```

Items can be removed from a Room with the **RemoveItem** method.

```
region.RemoveItem(item);
```

Characters can be added to the Room with the **AddCharacter** method.

```
room.AddCharacter(new NonPlayableCharacter("Name", "Description."));
```

Characters can be removed from a Room with the RemoveCharacter method.

▼
region.RemoveCharacter(character);

#### **Getting Started (getting-**

Rooms can contain custom commands that allow the user to directly interact with the Room.

```
- Locations room.Commands =
   [Overworld (overworld.html)
    Region (region horn) mand (new CommandHelp ("Pull lever", "Pull the lever."), true, (game,
   argon from.html)
    Exit (exit.html)
            room.FindExit(Direction.East, true, out var exit);
  Items (items thtml) bck();
```

+ Characters return new Reaction(ReactionResult.OK, "The exit was unlocked.");

**Conditional Descriptions** (conditionaldescriptions.html)

**Commands** (commands.html)

Frame Builders (framebuilders.html)

## **Exit**

# Qverview

An Exit is essentially a connector between to adjoining rooms.

```
Getting Started (getting-
```

An Locations simply instantiated with a direction.

```
Overworld (overworld.html)

Region (region html)
Room (room.html)

Exit (exit.html)
```

An Exit can be hidden from the player by setting its **IsPlayerVisible** property to false, this can be set in the **Items (items.html)** constructor.

+ Characters

```
Conditional Descriptions ection North, false);
(conditional-
```

Ordeseximations.html)

## **Commands**

(commands. Athinible = false)

## Frame Builders (frame-

Optionally a description of the Exit can be specified.

```
End Conditions (end-
var exit = new Exit(Direction.North, true, new Description("A door covered in iv
conditions.html)
```

This will be returned if the player examines the Exit.

Like all Examinable objects, an Exit can be assigned custom commands.

```
exit.Commands =
[
   new CustomCommand(new CommandHelp("Shove", "Shove the door."), true, (game, arg
s) =>
   {
      exit.Unlock();
      return new Reaction(ReactionResult.OK, "The door swung open.");
   })
];
```

## ₹

## Getting Started (gettingstarted.html)

#### - Locations

Overworld (overworld.html)
Region (region.html)
Room (room.html)
Exit (exit.html)

## Items (items.html)

#### + Characters

Conditional Descriptions (conditional-descriptions.html)

Commands (commands.html)

Frame Builders (framebuilders.html)

## Item

# **Qverview**Filter by title

Items can be used to add interactivity with a game. Items can be something that a player can take with them, or they may be static in a Room.

Getting-

started.html)

#### USE + Locations

An Item can be simply instantiated with a name and description. **Items (items.ntml)** 

```
+ Characters var sword = new Item("Sword", "A heroes sword.");
```

#### **Conditional Descriptions**

By Gonditional.

By Genditional is not takeable and is tied to a Room. If it is takeable this can be specified in the constructor. descriptions.html)

```
Commands = new Item("Sword", "A heroes sword.", true); (commands.html)
```

Ar **Frame Builders** (**frame** r Item. This is useful in situations where the Item changes state. Morphing is in **What with the Morph** method. The Item that Morph is invoked on takes on the properties of the Item being morphed into.

**End Conditions (end-**

```
conditions.html)
var brokenSword = new Item("Broken Sword", "A broken sword");
sword.Morph(brokenSword);
```

Like all Examinable objects, an Item can be assigned custom commands.

```
bomb.Commands =
[
   new CustomCommand(new CommandHelp("Cut wire", "Cut the red wire."), true, (game,
args) =>
   {
     game.Player.Kill();
     return new Reaction(ReactionResult.Fatal, "Boom!");
})
];
```

## Interaction

Interactions can be set up between different assets in the game. The **InteractionResult** contains the result of the interaction, and allows the game to react to the interaction.

```
var dartsBoard = new Item("Darts board", "A darts board.");
   var dart = new Item("Dart", "A dart")
   {
       Interaction = item =>
 ₹
            if (item == dartsBoard)
 return new InteractionResult(InteractionEffect.SelfContained, item, "The Getting Started (getting-dart stuck in the darks board.");
 started.html)
return new InteractionResult(InteractionEffect.NoEffect, item);
+ Locations
 Items (items.html)
+ Characters
  Conditional Descriptions
 (conditional-
 descriptions.html)
 Commands
  (commands.html)
 Frame Builders (frame-
 builders.html)
 End Conditions (end-
```

conditions.html)

# PlayableCharacter

# **Qverview**Filter by title

A PlayableCharacter represents the character that the player plays as throughout the game. Each game has only a single PlayableCharacter. Getting Started (getting-

started.html)

## + Locations

A Playable Character can be simply instantiated with a name and description. **Items (Items.html)** 

```
Characters
  var player = new PlayableCharacter("Ben", "A 39 year old man.");
     PlayableCharacter (playable-
    character.html)
A Playable Character Gapthe (also be instantiated with a list of Items.
     playable-character.html)
  Conditional Descriptions lecharacter ("Ben", "A 39 year old man.",
  (conditional-
new item("Guitar", "A PR$ Custom 22, in whale blue, of course."),
descriptions.h(tml) let", "An empty wallet, of course.")
  Commands
  (commands.html)
A PlayableCharacter can be given items with the AcquireItem method. Frame Builders (frame-
  builders.html)
   player.AcquireItem(new Item("Mallet", "A large mallet."));
  End Conditions (end-
  conditions.html)
A PlayableCharacter can lose an item with the DequireItem method.
   player.DequireItem(mallet);
```

A PlayableCharacter can use an item on another asset:

```
var trapDoor = new Exit(Direction.Down);
var mallet = new Item("Mallet", "A large mallet.");
player.UseItem(mallet, trapDoor);
```

A Playable Character can give an item to a non-playable character.

```
var goblin = new NonPlayableCharacter("Goblin", "A vile goblin.");
var daisy = new Item("Daisy", "A beautiful daisy that is sure to cheer up even the m
ost miserable creature.");
player.Give(daisy, goblin);
```

#### $\overline{\mathbf{Y}}$

PlayableCharacters can contain custom commands that allow the user to directly interact with the character or

other assets. **Getting Started (getting-**

#### started.html)

player.Commands =

+ Locations

new CustomCommand(new CommandHelp("Punch wall", "Punch the wall."), true, (game, Items (items.html)

- Characters return new Reaction(ReactionResult.OK, "You punched the wall.");

PlayableCharacter (playable-

]character.html)

NonPlayableCharacter (non-

playable-character.html)

**Conditional Descriptions** 

(conditional-

descriptions.html)

**Commands** 

(commands.html)

Frame Builders (frame-

builders.html)

**End Conditions (end-**

conditions.html)

# NonPlayableCharacter

A NonPlayableCharacter represents any character that the player may meet throughout the game.

```
Getting Started (getting-
| staged.html)
```

A 49994 Character can be simply instantiated with a name and description.

```
Items (items.html)
 var goblin = new NonPlayableCharacter("Goblin", "A vile goblin.");
Characters
    PlayableCharacter (playable-
A NonPlayable Gharacter can give an item to another NonPlayable Character.
    NonPlayableCharacter (non-
   valayable-character.html ("Daisy", "A beautiful daisy that is sure to cheer up even the m
  npc.Give(daisy, goblin);
(conditional-
  descriptions.html)
NonPlayableCharacters can contain custom commands that allow the user to directly interact with the character
```

or Commands

(commands.html)

```
Frame-Builders (frame-
```

```
builders.html)
     new CustomCommand(new CommandHelp("Smile", "Crack a smile."), true, (game, args)
End Conditions (end-
conditions.html)
         return new Reaction(ReactionResult.OK, "Well that felt weird.");
     })
 1;
```

## Conversations

A NonPlayableCharacter can hold a conversation with the player.

- A Conversation contains Paragraphs.
- A Paragraph can contain one or more Responses.
- A Response can contain a delta to shift the conversation by, which will cause the conversation to jump paragraphs by the specified value.
- A Response can also contain a callback to perform some action when the player selects that option.

```
goblin.Conversation = new Conversation(
        new Paragraph("This is a the first line."),
        new Paragraph("This is a question.")
        {
            Responses =
 \overline{\mathbf{T}}
            Γ
                new Response("This is the first response." 1),
                new Response("This is the second response.", 2),
  Getting Started (getting-
new Response ("This is the third response.", 3)
  started.html)
+ Locations
New Paragraph("You picked first response, return to start of conversation.", -
  Items (items.html)
new Paragraph ("You picked second response, return to start of conversation., -
   new Paragraph("You picked third response, you are dead., game => game.Player.Kil PlayableCharacter(playable-
- Characters
   )çháracter.html)
    NonPlayableCharacter (non-
    playable-character.html)
  Conditional Descriptions
  (conditional-
  descriptions.html)
  Commands
  (commands.html)
  Frame Builders (frame-
  builders.html)
  End Conditions (end-
  conditions.html)
```

# **Conditional Descriptions**

Normally assets are assigned a **Description** during the constructor. This is what is returned when the asset is examined Getting Started (getting-

Destairted share living specified as a string.

#### + Locations

```
var item = new Item("The items name", "The items description.");
Items (items.html)
```

the haracter be specified as a Description.

### **Conditional Descriptions**

(conditional-new Item(new Identifier("The items name"), new Description("The items des descriptions html)

#### **Commands**

However, sometimes it may be desirable to have a conditional description that can change based on the state of ... (commands.html)

Frame Builders (frame-Conditional Description and contain a lambda which determines builders html) which one of two strings are returned when the asset is examined.

#### **End Conditions (end-**

```
conditionsaltem!) just for demo purposes
var player = new PlayableCharacter("Ben", "A man.");
// the description to use when the condition is true
var trueString = "A gleaming sword, owned by Ben.";
// the string to use when the condition is false
var falseString = "A gleaming sword, without an owner.";
// a lambda that determines which string is returned
Condition condition = () => player.FindItem("Sword", out _);
 // the conditional description itself
var conditionalDescription = new ConditionalDescription(trueString, falseString, con
 dition);
// create the item with the conditional description
var sword = new Item(new Identifier("Sword"), conditionalDescription);
```

## ₹

Getting Started (gettingstarted.html)

+ Locations
Items (items.html)

+ Characters

Conditional Descriptions (conditional-descriptions.html)

Commands (commands.html)

Frame Builders (framebuilders.html)

# **Global Commands**

### Qverview Filter by title

There are three main types of Command.

Getting Started (getting) sed to interact with the game.

starGeobalt (Crd)mmands are used to interact with the program running the game.

Custom Commands allow developers to add custom commands to the game without having to worry
 Locations about extended the games interpreters.

Items (items.html)

## Gamer Commands

Conditional Descriptions

Drop ditional-

Alldas criptions dripta) item. R can be used as a shortcut.

Commands (commands.html)

Frame Builders (frame-The placers antals) drop all items.

End Conditions (enddrop all conditions.html)

## Examine

Allows players to examine any asset. **X** can be used as a shortcut.

Examine will examine the current room.

examine

The player themselves can be examined with **me** or the players name.

examine me

or

examine ben

The same is true for Regions, Overworlds, Items and Exits.

## Take

Allows the player to take an Item. T can be used as a shortcut.

take sword



Take **all** allows the player to take all takeables Items in the current Room.

**Getting Started (getting**started.html)

+ Locations

ltems (items.html)

+ Characters

Talk allows the player to start a conversation with a NonPlayableCharacter. L can be used as a shortcut.

Conditional Descriptions

If only a single NonPlayableCharacter is in the current Room no argument needs to be specified. (conditional-

descriptions.html)

talk

**Commands** 

(commands.html)
However, if the current Room contains two or more NonPlayableCharacters then to and the

Note: Note:

builders.html)

End Conditions (endconditions.html)

## Use

Use allows the player to use the Items that the player has or that are in the current Room.

use sword

Items can be used on the Player, the Room, an Exit, a NonPlayableCharacter or another Item. The target must be specified with the on keyword.

use sword on me

Or

use sword on bush

## Move

Regions are traversed with direction commands.

- North or N moves north.
- East or E moves east.
- ▼ South or S moves south.
  - · West or W moves west.
  - Down or D moves down.

Gettipg, Started (gettingstarted.html)

### **E**Mations

On tem sol (items ant and) ersation with a NonPlayable Character, the End command will end the conversation.

+ Characters

end

Conditional Descriptions (conditional-

Griptiens html)
Grobal Commands

Commands

(commands.html)

Frame Builders (frame-Displays a screen containing information about the game. builders.html)

End Conditions (endconditions.html)

## CommandsOn / CommandsOff

Toggles the display of the contextual commands on the screen on and off.

commandson

Or

commandsoff

## Exit

Exit the current game.

exit

## Help

Displays a Help screen listing all available commands.

help



## Keyfung staktery Coffiting-

Toggles the display of the map key on and off.

+ Locations

Items (items.html)

+ Characters

Or

**Conditional Descriptions** 

(conditionaldescriptions.html)

Commands

Memmands.html)

Distriagnen Buildiersn (figameen.

builders.html)

End Conditions (end-conditions.html)

## New

Starts a new game.

new

## **Custom Commands**

Custom commands can be added to many of the assets, including Room, PlayableCharacter, NonPlayableCharacter, Item and Exit.

## Overview

In BP.AdventureFramework output is handled using the **FrameBuilders**. A FrameBuilder is essentially a class that builds a **Frame** that can render a specific state in the game. This **Frame** can then be rendered on a **TextWriter** by calling the rendered on the calling the rendered on the specific state in the game. This **Frame** can then be rendered on a **TextWriter** by calling the rendered on the coutput display and the **FrameBuilder** as the instructions that build the output display and the **Frame** as the output itself.

The ting Started html)

- started.html)
  SceneFrameBuilder is responsible for building frames that render the scenes in a game.
- + LocatleFrameBuilder is responsible for building the title screen frame.
  - RegionMapFrameBuilder is responsible for building a frame that displays a map of a Region. Itemsalitemsal
- + Characters responsible for building a frame to display the about information.
  - HelpFrameBuilder is responsible for building frames to display the help.

Conditional Descriptions is responsible for building a frame to display the game over screen. (Conditional TrameBuilder is responsible for building a frame to display the completion screen. descriptions: The median is responsible for building a frame that can render a conversation.

A game accepts a **FrameBuilderCollection**. A **FrameBuilderCollection** is a collection of all the different **Commands FrameBuilders** required to render a game. All **FrameBuilders** are extensible, so the output for all parts of the **(commands.html)** game can be fully customised.

Frame Builders (framebuilders.html)

## **End Conditions**

# **Qverview**Filter by title

The **EndCheck** class allows the game to determine if it has come to an end. Each game has two end conditions

Getting Stated (gatting en the game is over, but has not been won.

starcech plation Condition when the game is over because it has been won.

#### + Locations

Jse Items (items.html)

When an **EndCheck** is invoked it returns an **EndCheckResult**. The **EndCheckResult** details the result of the **+ Characters** check to see if the game has ended.

## **Conditional Descriptions**

(conditional tic EndCheckResult IsGameOver(Game game)

déscriptions.html)

if (game.Player.IsAlive)

Command§turn EndCheckResult.NotEnded;

(commands.html)

return new EndCheckResult(true, "Game Over", "You died!");

Frame Builders (frame-

builders.html)

## The Gondations (ends an EndCheck:

conditions.html)

EndCheck gameOverCheck = IsGameOver;

The **GameOverCondition** and **CompletionCondition** are passed in to the game as arguments when a game is created.