

Introduction

Work in progress, coming soon.

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Getting Started

Clone the repo

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Clone the repo to the local machine.

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Hello World

```
// create the player. this is the character the user plays as
var player = new PlayableCharacter("Dave", "A young boy on a quest to find the meaning of life.");

/// create region maker. the region maker simplifies creating in game regions. a region contains a series of rooms
var regionMaker = new RegionMaker("Mountain", "An imposing volcano just East of town.");

// add a room to the region at position x 0, y 0, z 0
[0, 0, 0] = new Room("Cavern", "A dark cavern set in to the base of the mountain.");

// create the callback for generating new instances of the game
// - the title of the game
// - an introduction to the game, displayed at the start
// - about the game, displayed on the about screen
// - a callback that provides a new instance of the games overworld
// - a callback that provides a new instance of the player
// - a callback that determines if the game is complete, checked every cycle of the game
// - a callback that determines if it's game over, checked every cycle of the game
var gameCreator = Game.Create(
    "The Life of Dave",
    "Dave wakes to find himself in a cavern...",
    "A very low budget adventure.",
    x => overworldMaker.Make(),
    () => player,
    x => EndCheckResult.NotEnded,
    x => EndCheckResult.NotEnded);

// begin the execution of the game
Game.Execute(gameCreator);
```

Example game

The quickest way to start getting to grips with the structure of BP.AdventureFramework is by taking a look at the examples. An example game is provided in the BP.AdventureFramework.Examples (<https://github.com/benpollarduk/adventure-framework/tree/main/BP.AdventureFramework.Examples>) directory and have been designed with the aim of showcasing the various features.

Running the examples

The example applications can be used to execute the example BP.AdventureFramework game and demonstrate the core principals of the framework. Set the **BP.AdventureFramework.Examples** project as the start up project and build and run to start the application.



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Overworld

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

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```
var overworld = new Overworld("Name", "Description.");
```

+ Commands

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

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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.



```
var overworld = overworldMaker.Make();;
```

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Region

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A Region is the intermediate level location in a game. An Overworld can contain multiple Regions. A Region can contain multiple Rooms.

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A Region represents a 3D space.

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- The **x** location always refers to the horizontal axis, with lower values being west and higher values being east.

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- The **y** location always refers to the vertical axis, with lower values being north and higher values being south.

+ Characters

- The **z** location always refers to the depth axis, with lower values being down and higher values being up.

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

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

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

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

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

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```
region.SetStartPosition(0, 0, 0);
```

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

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```
Overworld (overworld.html)
region.UnlockDoorPair(Direction.East);
Region (region.html)
Room (room.html)
Exit (exit.html)
```

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

Items (items.html)

```
+ Characters
region.Commands =
[
```

```
+ Commands
    customCommand(new CommandHelp("Warp", "Warp to the start."), true, (game, args) =>
```

End Conditions (end-conditions.html)

```
    {
        JumpToRoom(0, 0, 0);
        return new Reaction(ReactionResult.OK, "You warped to the start.");
    })
```

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RegionMaker

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();
```



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

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A Room can contain up to six Exits, one for each of the directions **north**, **east**, **south**, **west**, **up** and **down**.

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

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```
var room = new Room("Name", "Description.");
```

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Exits can be added to the Room with the **AddExit** method.

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

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```
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 Character("Name", "Description."));
```

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

```
region.RemoveCharacter(character);
```

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

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```
room.FindExit(Direction.East, true, out var exit);  
exit.Unlock();
```

```
Overworld(overworld.html)  
Reaction(new Reaction(ReactionResult.OK, "The exit was unlocked."));
```

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Exit

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An Exit is essentially a connector between two adjoining rooms.

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An Exit can be simply instantiated with a direction.

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```
Exit exit = new Exit(Direction.North);
```

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

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```
Room room = new Room(exit, new Exit(Direction.North, false);
```

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```
exit.IsPlayerVisible = false;
```

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Optionally, a description of the Exit can be specified.

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```
exit = new Exit(Direction.North, true, new Description("A door covered in ivy"));
```

This will be returned if the player examines the Exit.

Frame Builders (frame-builders.html)

Like all **Entity** 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.");
    })
];
```



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Item

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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.

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And Item can be simply instantiated with a name and description.

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

+ Locations

By default an Item is not takeable and is tied to a Room. If it is takeable this can be specified in the constructor.

Items (items.html)

+ Characters

```
new Item("Sword", "A heroes sword.", true);
```

+ Commands

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

End Conditions (end-

conditions.html)

```
bomb.Commands =
```

Conditional Descriptions

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```
new CustomCommand(new CommandHelp("Cut wire", "Cut the red wire."), true, (game, args) => {
```

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```
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)
```

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```
            return new InteractionResult(InteractionEffect.SelfContained, item, "The  
            dart stuck in the darts board.");
```

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```
            return new InteractionResult(InteractionEffect.NoEffect, item);
```

```
        }
```

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PlayableCharacter

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A PlayableCharacter represents the character that the player plays as throughout the game. Each game has only a single PlayableCharacter.

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started.html)

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

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```
var player = new PlayableCharacter("Ben", "A 39 year old man.");
```

+ Locations

A PlayableCharacter can also be instantiated with a list of Items.

Items (items.html)

```
- Characters = new PlayableCharacter("Ben", "A 39 year old man.",
    [
        PlayableCharacter(playable-
            new Item("Guitar", "A PRS Custom 22, in whale blue, of course."),
            character.html)
            new Item("Wallet", "An empty wallet, of course.")
        ],
        NonPlayableCharacter(non-
            playable-character.html)
    ]
);
```

+ Commands

A PlayableCharacter can be given items with the **AcquireItem** method.

End Conditions (end-

conditions.html)

```
player.AcquireItem(new Item("Mallet", "A large mallet."));
```

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A PlayableCharacter can loose an item with the **DequireItem** method.

```
player.DequireItem(mallet);
```

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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 PlayableCharacter 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 most miserable creature.");
player.Give(daisy, goblin);
```

PlayableCharacters can contains custom commands that allow the user to directly interact with the character or other assets.

```
player.Commands =  
[  
  new CustomCommand(new CommandHelp("Punch wall", "Punch the wall."), true, (game,  
    args) =>  
    {  
      return new Reaction(ReactionResult.OK, "You punched the wall.");  
    }  
  )  
];
```

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NonPlayableCharacter

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

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

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```
NonPlayableCharacter("Goblin", "A vile goblin.");
```

A NonPlayableCharacter can give an item to another NonPlayableCharacter.

+ Locations

Items (items.html)

```
var daisy = new Item("Daisy", "A beautiful daisy that is sure to cheer up even the m
```

- Characters

```
npc.Give(daisy, goblin);
PlayableCharacter(playable-
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```

NonPlayableCharacter (non-playable-character.html)
NonPlayableCharacter can contains custom commands that allow the user to directly interact with the character or other assets.

+ Commands

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```
goblin.Commands =
new CustomCommand(new CommandHelp("Smile", "Crack a smile."), true, (game, args)
```

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```
=>
{
return new Reaction(ReactionResult.OK, "Well that felt weird.");
};
```

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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 =

```

```

        [
            new Response("This is the first response." 1),
            new Response("This is the second response.", 2),
            new Response("This is the third response.", 2)
        ]
    }
}

```

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