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**2D RPG橫向卷軸遊戲**

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**2D橫向卷軸恐怖手遊**

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# 摘要

我們全部組員都出自於非常熱愛玩遊戲，所以我們決定從零開始製作一款屬於們的遊戲，在琢磨後我們決定製作2D橫向卷軸的遊戲，也藉由這個專題我們能從中學習並運用所學。

遊戲背景以SCP基金會這個虛構的組織，這是一個專門管理超自然物的特工組織，組織裡的主角因為某件事情而喪失記憶，我們想以此打造帶點恐怖的橫向卷軸冒險遊戲。

這款遊戲將會以知名的類銀河戰士惡魔城遊戲(Metroidvania game) 遊戲風格製作，這種風格是在2D橫向卷軸為基底上，讓玩家以非線性的方式遊玩，強調探索要素。

本專題選用Unity作為開發工具，並以C#的來製作。Unity是一個可以輕易達到跨平台，且廣泛使用的遊戲開發工具。Unity中的C#開發套件已經都非常成熟，我們可以從中學習遊戲常用的函式，我們也可以藉此多熟悉一種程式語言。

**關鍵詞**：RPG遊戲、Unity2D遊戲引擎、恐怖冒險遊戲

指導教授 (簽名)

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# 研究動機與目的

## 動機

在現今社會的遊戲趨近於飽和的狀態下，不管是電腦遊戲、手機遊戲、網頁遊戲、機台遊戲，甚至是PS4和Switch這種類型的平台主機遊戲，這些遊戲都非常的五花八門，然而我們想要在這個群雄割據的遊戲界裡，做出一款屬於我們的遊戲，讓這個遊戲打破傳統遊戲思維，成為現今數一數二的一款遊戲。

當初想要製作這款遊戲，是因為小組成員們本身就熱愛遊戲，進而想製作出屬於我們的遊戲。在現今遊戲盛行的時代，說到遊戲，人們不外乎都會先想到經典的、著名的，回憶起小時候的著名經典遊戲馬力歐，遊戲操作簡單又有趣，是人人幾乎都喜歡的，期望我們做出的遊戲也是既操作簡單又有趣。

除了操作簡單和有趣，我們也希望加入自己的特色，不同於普通RPG一條龍的劇情限制，做出能多過程和結尾的劇情，甚至結合自由探索、恐怖冒險，我們也參考其他遊戲的優缺點，創造出獨一無二的成品。

## 目的

為了能做出好玩的遊戲，體會從零開始做出一款完整的遊戲。了解一款遊戲製成的流程和方式，並熟悉在遊戲頁裡面廣泛使用的遊戲引擎。而想要完成這樣的遊戲，也並非那麼簡單，對開發者而言要設計出一個優秀的遊戲，需要激起玩家的探索慾望、良好的關卡體驗與恰到好處的音樂和音效，而對程式設計師來說要做出一個良好的操作手感也是一個挑戰，我們希望藉著此專題能培養我們這方面的能力。

# 文獻探討

## Unity引擎簡介

在市面上眾多的遊戲引擎，經過衡量後選擇Unity，原因為跨平台2D/3D，可開發於Windows、Xbox[[1]](#_[1]__維基百科XBOX)、Android[[2]](#_[2]_維基百科Android)等眾多平台單機、遊戲主機或是行動裝置，甚至還延伸到了網頁平台，以及新一代多媒體平台。現今大多遊戲也是使用Unity為開發引擎，教學資源相對之下也較為廣大，也易找到其他遊戲進行對比，以此成長。[[3]](#_[3]_維基百科Unity)

## 2D RPG遊戲簡介

要介紹這個類型的遊戲我們得先把2D橫向卷軸與RPG[[4]](#_[4]_維基百科RPG)這兩個遊戲類型給分開來。

首先是2D橫向卷軸遊戲，在因為硬體限制與技術限制3D遊戲並不普遍的時代，不少遊戲工作室都選擇用2D的方式來呈現動作遊戲，而橫向卷軸指的就是玩家的視角，最有名的例子就是由任天堂開發的馬力歐兄弟[[5]](#_[5]_維基百科超級馬力歐兄弟)，如圖2.1。

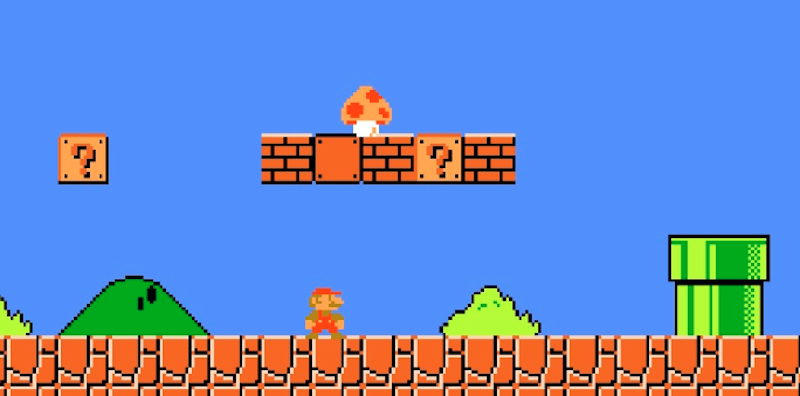


圖2.1馬力歐的遊戲畫面

而RPG全名是Role-Playing Game，中文為角色扮演遊戲，廣義來說只要有玩家扮演遊戲角色去觸發各式事件都算角色扮演，但是在現在RPG的意義往往都包含著冒險的要素。

在1986年將兩者合在一起的銀河戰士吸引到玩家目光，這是一款橫向卷軸動作遊戲且強調自由冒險，而在惡魔城 月下夜想曲中，圖2.2是月下夜想曲中可探索的地圖，可以看出此遊戲非線性重探索的特性，這樣的遊戲方式得到了完善，且成為一代經典，這種玩法甚至在現在還有一個專有名詞來稱呼他，類銀河戰士惡魔城遊戲(Metroidvania game) [[6]](#_[6]_維基百科類銀河戰士惡魔城遊戲)。

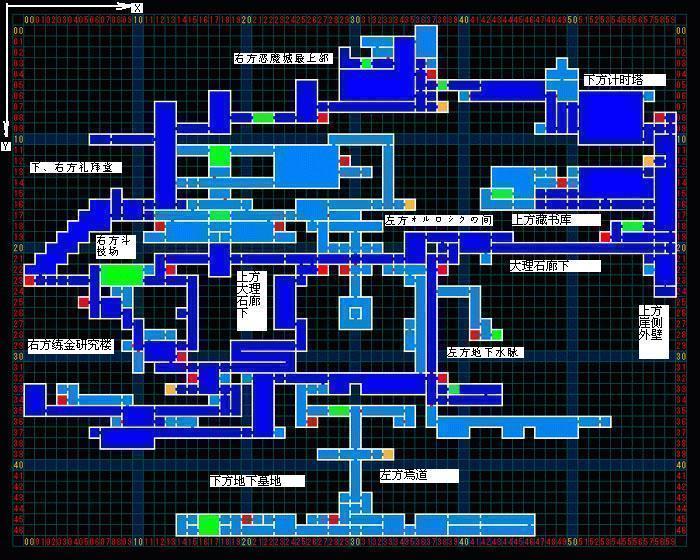


圖2.2惡魔城地圖

在日後，硬體計算能力越發成長，為了滿足玩家追求沉浸感的需求，不少遊戲大廠轉而開發有精美畫面的3D遊戲，而像惡魔城這類遊戲即使有優秀的作品，也難以躍入非核心玩家的視野。

而在近代數位平台崛起，而其中STEAM[[7]](#_[7]_維基百科Steam)為其中佼佼者，圖2.3為PC數位遊戲平台STEAM，STEAM的出現讓開發者不再需要花費大量的資金去發行遊戲。且遊戲引擎日漸成熟，讓即使對程式一知半解的人也能參與開發遊戲。



圖2.3 STEAM Logo

且遊戲引擎日漸成熟，讓即使對程式一知半解的人也能參與開發遊戲，如：Unity引擎、Doom引擎、虛幻引擎等。[[8]](#_[8]_維基百科遊戲引擎)

而這些小工作室背後往往都沒有大金主，且必須獨自承擔所有虧損，但是相對的他們往往更可以不受公司與市場所左右，以開發者本身的想法去完成一款獨特的遊戲，玩家們將這些遊戲稱為獨立遊戲。[[9]](#_[9]_維基百科獨立遊戲)

大部分的獨立遊戲工作室因資金或技術，開發出的3D遊戲畫面精緻度難以超越大公司，因此不少工作室轉而開發成本較低的2D遊戲，而上一世代的類銀河戰士惡魔城遊戲受到不少開發者青睞，如：Hollow Knight、Ori、Rabi-Rabi等等，皆以優秀的遊戲性，突破重圍拿下良好的成績，更證明了這類遊戲對現在玩家來說依然是願意花錢與時間去體驗的，由圖2.4可看出獨立遊戲日漸被玩家接受。



圖2.4 Hollow Knight在STEAM的評價

如前文所說的類銀河戰士惡魔城遊戲(Metroidvania game)，所謂探索並非是讓玩家漫無目的地在遊戲中閒逛，這會讓遊戲索然無味，本段將以Hollow Knight為例子，了解這類型遊戲的精髓所在。

首先我們先了解這類型的遊戲往往都不是從一開始就會讓玩家進入所有區域，有些區域得先取得特定道具或處發事件之後才會解鎖，這些區域能夠激起玩家的好奇心，解鎖這類區域能也讓玩家體驗到成就感，如圖2.5，可看見一扇門擋在道具面前，而玩家必須以解謎或尋找道具的方式解鎖之。

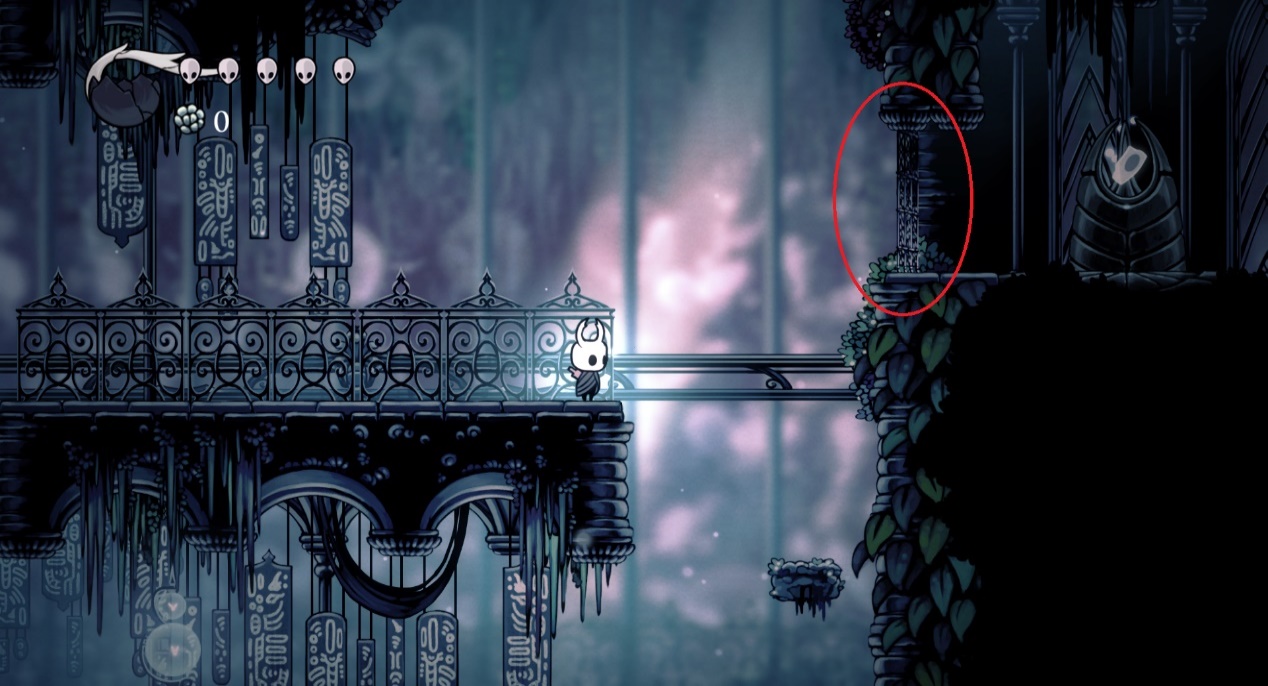


圖2.5Hollow Knight裡被封鎖的區域

再來，是散落在各個地區的蒐集要素，為了能活用此類型遊戲廣闊的區域，往往會在各區域安排一些給玩家的驚喜，從而鼓勵一些樂於探險的玩家，而這些驚喜常常與玩家利益掛勾，使得玩家在辦正事之餘，願意去走那些看起來更危險的稀僻小徑，如圖2.6，Hollow Knight在難以進入的地點放置了獎勵玩家的蒐集要素，這只毛毛蟲不僅可愛，也會回饋遊戲中的通貨資源給玩家。

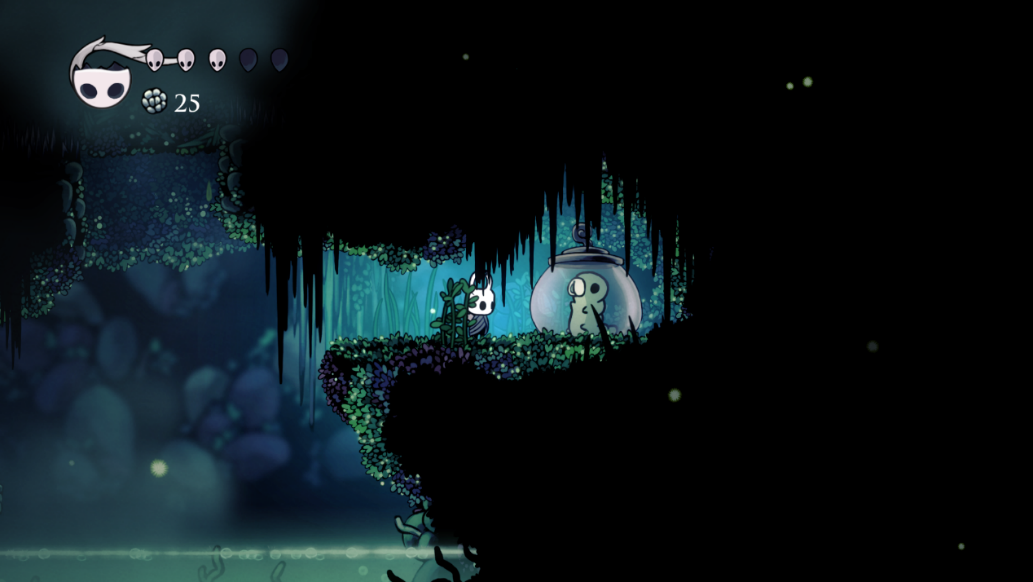


圖2.6 Hollow Knight裡的毛毛蟲

由上述兩點可知，在製作這類型遊戲時，對於開發者的關卡設計能力是有一定要求的，我們希望在熟悉Unity技術之餘，也能培養各自的設計能力，讓本組每個人都能想出一個吸引人的企劃。

# 遊戲介紹

我們想要製作的是一款，能夠讓玩家樂於探索，熱衷蒐集並勇於挑戰的遊戲。在遊戲中，我們並不會用事件去限制玩家的走向，而是讓玩家在冒險、擊敗敵人的同時，漸漸開放各個區域，並在各個區域適時安排利於玩家的道具或蒐集要素。

在與敵人的對戰中玩家主要有進距離攻擊、遠程攻擊和閃避這三個基本動作，搭配各式的道具組合來讓玩家選擇自己的戰鬥風格。

## 3.1遊戲背景及主角設定

遊戲背景為SCP超自然基金會收容所[[10]](#_[10]SCP基金會)，SCP就像是美國第51區，專門研究、分析、管理超自然物體的地區，然而實際上卻是一個不存在的機構，也並沒有實際的場所，只有純文字的敘述，以往都是收集一些著名、卻又不存在的恐懼，現在大多是自行創造、天馬行空的作品，是一種另類的網路恐怖小說，我們依靠這些僅有的敘述，還原出收容所的樣貌，主角就是在這個基金會裡工作的。

我們把主角的資料設定為男姓、年齡25歲、職業為SCP基金會D級人員、個性有觀察力細微、直覺敏銳、好奇心極強、很會隱藏自己的想法等……

背景故事：被發現在林裡的一間小屋，因為不為人知而轉送往基金會，他們試圖喚醒主人公並用[某種]方式真的成功喚醒，並欺騙他說是在與SCP-XXX進行實驗時發生意外，導致記憶被[奪走/喪失]。

## 3.2架構圖

我們的遊戲系統分為：戰鬥系統、開放式系統、道具系統、成長系統，如圖3.1。

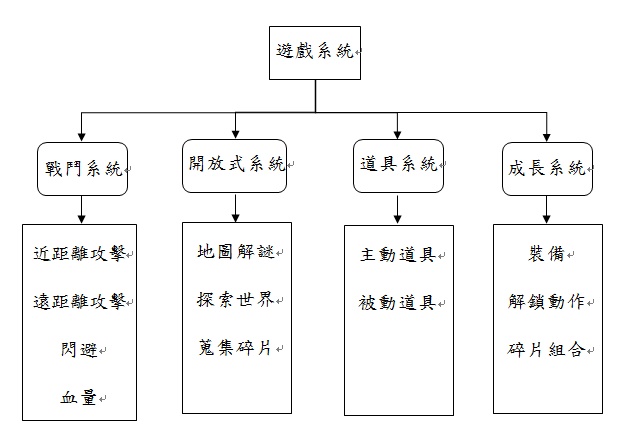


圖3.1遊戲系統架構圖

1. 戰鬥系統

戰鬥系統更細分為近戰、遠攻、閃避，攻擊有基本攻擊速度，血量歸零時死亡，魔力是使用道具系統內的主動道具時會消耗的能量。

1. 開放式系統

遊戲內我們採用開放式系統，讓玩家能夠自由的四處探索，並且蒐集道具(道具系統內的被動道具)可裝備到身上加成能力(成長系統內的碎片組合)，要到達下一個區域前需要動點腦筋來解謎才能夠過關斬將。

1. 道具系統

道具分為主動與被動道具，主動道具為消耗魔力使用的技能，被動道具則是裝備到身上能有能力加成。

1. 成長系統

遊戲內總共有20個碎片，同區域的碎片蒐集完成後可組合成被動道具，裝備有遠程與近戰兩種，某些觸發事件可能會新增新的動作，例如：二段跳、閃避無敵等。

## 3.3遊戲設計流程

一個遊戲形成以前的必經之路有:企劃、設計、開發、測試、發行，如圖3.2。

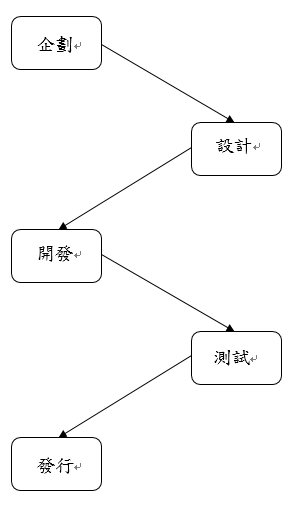


圖3.2遊戲設計流程圖

1. 企劃

先發想概念，然後把它表達出來成為企劃書，這就是企劃的部分，如圖3.3。



圖3.3企劃流程圖

1. 設計

再來是整體系統的設計，對我們來說關卡設計也至關重要，然後將整體系統的結構圖畫出來，最後將它模組化以利分工，如圖3.4。

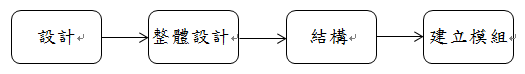


圖3.4設計流程圖

1. 開發

接著是開發階段，在開發階段先需要熟悉技術，並且創造出各類物件的雛型，加以強化後，再各個簡單測試，最後將需要的物件擺上各場景並做整個場景測試，如圖3.5。

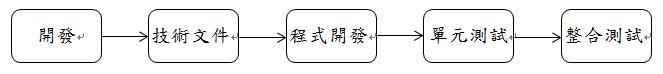


圖3.5開發流程圖

1. 測試

測試部分，除了會以正常遊戲方式遊玩之外，也會用個極端玩法測試是否有其他錯誤，並且監看遊戲是否有卡頓情況或過度使用資源的情況，最後可能會有幾次公開測試以蒐集更多錯誤數據，如圖3.6。

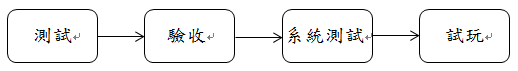


圖3.6測試流程圖

1. 發行

在錯誤在可接受範圍內後即可正式發行遊戲。

## 3.4場景

要組成一個場景，需要有背景、地形等物件，還需要調整相機、碰撞器和場景效果等屬性，下面將分別說明這些主要元素：背景、相機、地形、碰撞器和場景效果。

1. 背景Background

在背景部份我們嘗試使用了循環的方式去製作，將圖片設定成循環圖，再生成一個材質球，把圖片套用進材質球裡，創造一個平面並使用這顆材質球，再給予一個燈光，使用腳本為循環背景的腳本，創造一個GameObject player，用GameObject.FindGameObjectWithTag("Player")讓他去找到player，並把該player的速度紀錄到本地的player物件，還使用到函數Clamp(float變數名稱, float最小值, float最大值)去限制該物體的速度上限及下限，如圖3.7。

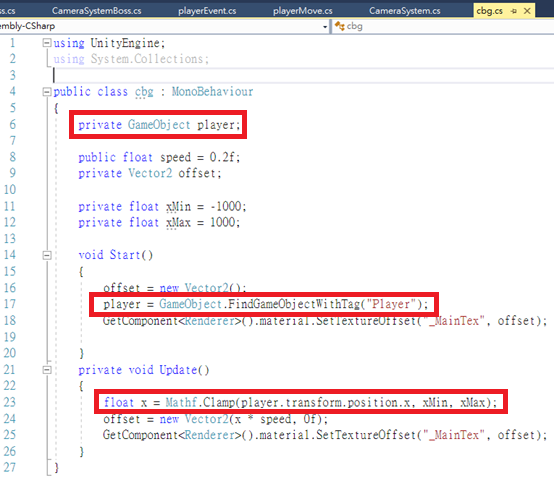


圖3.7背景腳本

1. 相機Camera

相機有兩種模式，兩種模式可以產生不同的效果，Orthographic是正視投影，便於操作和設計各種場景，如圖3.8；Perspective是透視投影，能夠產生遠景近景的視覺動態感，如圖3.9。

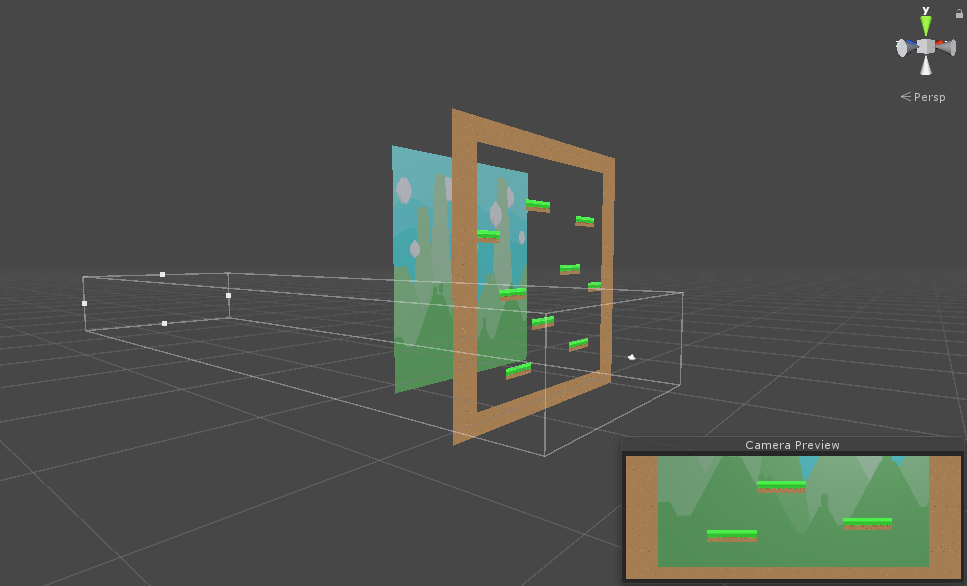


圖3.8 Camera-Orthographic

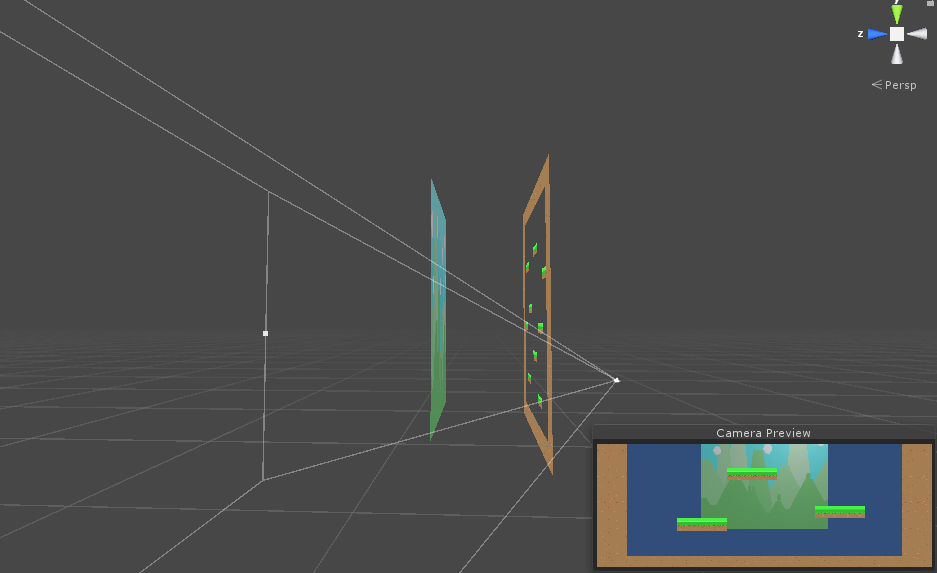


圖3.9 Camera –Perspective

1. 地形Tilemap

地形上使用Tilemap方塊去組成，在近幾個版本的unity有了較為方便的工具， Tilemap可以在GameObject>2D Object裡找到，如圖3.10，再將地形方塊放進Tile Palette裡， Tile Palette工具讓地形能夠較為快速的拼出，把拼出的地形放在Tilemap裡，如圖3.11。

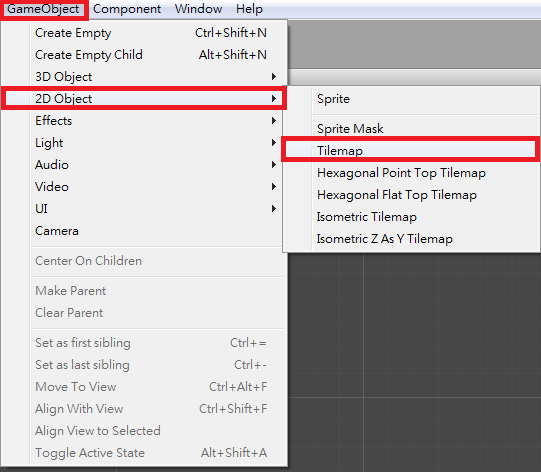


圖3.10 Tilemap路徑

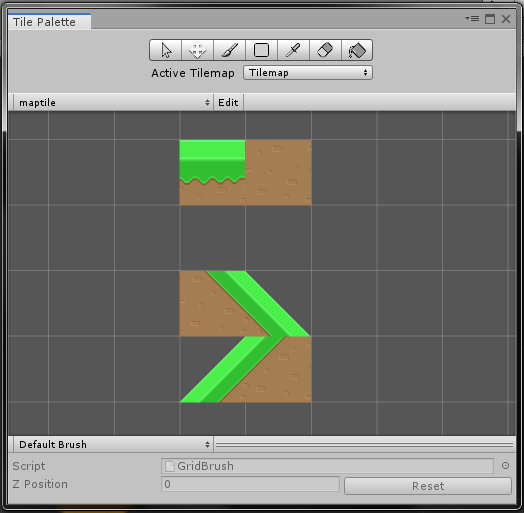


圖3.11 Tile Palette工具

1. 碰撞器Collider

碰撞器是一種物理元件，在遊戲中擁有多項重要的功能，Collider路徑可以在Component>Physics 2D裡能找到，如圖3.12。Collider 2D一共有六種，Box Collider 2D方塊碰撞器，適用於方形的碰撞。Circle Collider 2D球形碰撞器，適用於球形的碰撞。Edge Collider 2D邊緣碰撞器，適用於形狀複雜的物件。Polygon Collider 2D多邊碰撞器，適用於多邊形的碰撞。Capsule Collider 2D膠囊碰撞器，適用於封閉圖形的碰撞。Composite Collider 2D 合成碰撞器，可以將其他碰撞器合成為一個碰撞器。

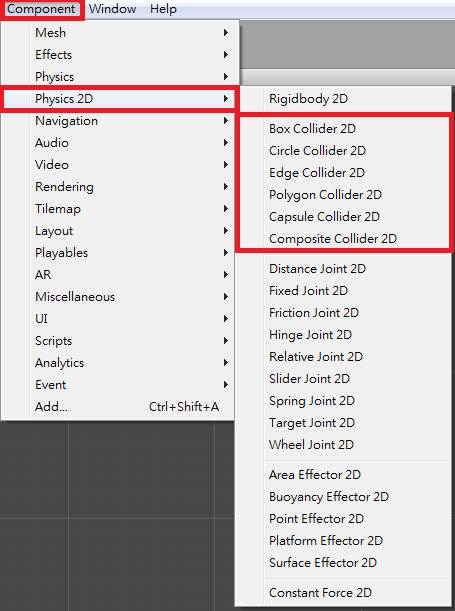


圖3.12 Collider路徑

1. 場景效果 Effector

在一個場景裡，可能有多種效果，像風吹、水流、吸引、爆炸等，我們就可以使用碰撞器來做出來，用碰撞器給他一個範圍，這個範圍稱作觸發區，當觸發區被觸發時，發生一些特定的場景效果，以達到目的，首先將碰撞器的屬性更改為Is Trigger或Used By Effector，如圖3.13。



圖3.13碰撞器屬性

再去更改各個效果的參數，來做出我們想要的效果，Effector放在碰撞器的下方Component>Physics 2D，如圖3.14。

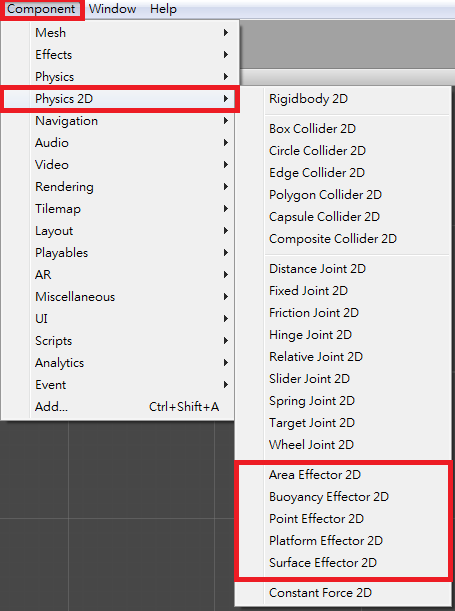


圖3.14 Effector路徑

後面將會介紹幾種常用的效果：Area Effector 2D、Buoyancy Effector 2D、Point Effector 2D、Platform Effector 2D、Surface Effector 2D。

1. Area Effector 2D

區域效果，類似風吹或瀑布有特定方向的力場，如圖3.15[[11]](#_[11]_陳間時光部落格Unity_2D)。要使用Area Effector 2D碰撞器需要更改屬性為Is Trigger及Used By Effector，如圖3.16，Area Effector 2D有主要參數作用力Force的角度Angle、大小Magnitude、變化Variation、目標Target，如圖3.17。

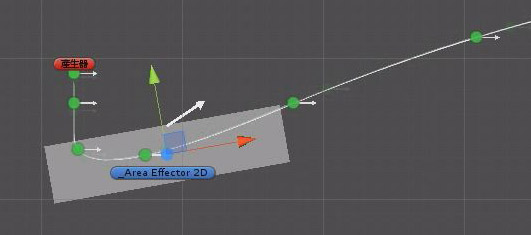


圖3.15 Area Effector 2D範例



圖3.16碰撞器屬性

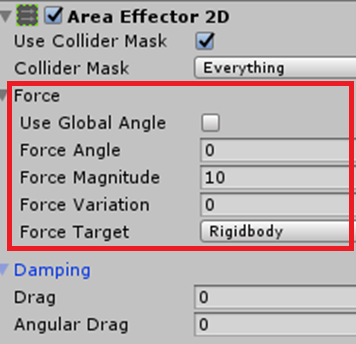


圖3.17 Area Effector 2D屬性

1. Buoyancy Effector 2D

浮力效果，水池、水流的效果，如圖3.18[[11]](#_[11]_陳間時光部落格Unity_2D)。要使用Buoyancy Effector 2D碰撞器需要更改屬性為Is Trigger及Used By Effector，如圖3.19。Buoyancy Effector 2D有主要參數密度Density、表面水平Surface Level、流動Flow的角度Angle、大小Magnitude、變化Variation，如圖3.20。

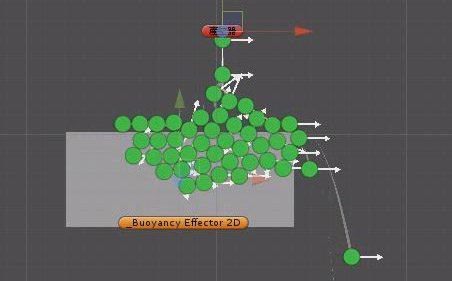


圖3.18 Bu**oyancy Effector 2D**範例



圖3.19碰撞器屬性

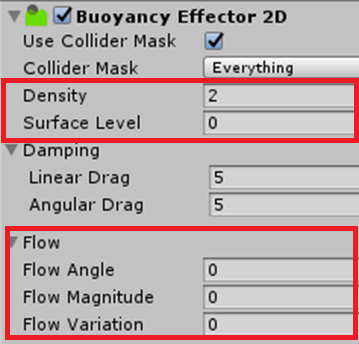


圖3.20 Buoyancy Effector 2D屬性

1. Point Effector 2D

聚焦效果，黑洞或是爆炸般的效果，如圖3.21[[11]](#_[11]_陳間時光部落格Unity_2D)。要使用Point Effector 2D碰撞器需要更改屬性為Is Trigger及Used By Effector，如圖3.22。Point Effector 2D有主要參數作用力Force的大小Magnitude、變化Variation、目標Target，如圖3.23。

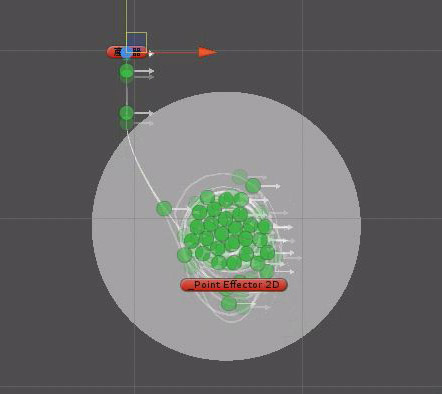


圖3.21 Point Effector 2D範例



圖3.22碰撞器屬性

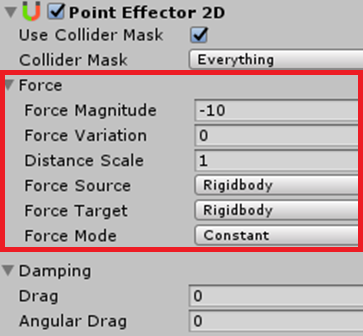


圖3.23 Point Effector 2D屬性

1. Platform Effector 2D

平台效果，可以設定跳上某平台以後就下不來，或是特定角度才跳得上去，如圖3.24[[11]](#_[11]_陳間時光部落格Unity_2D)。要使用Platform Effector 2D碰撞器需要更改屬性為Used By Effector，如圖3.25。Platform Effector 2D有主要參數單向One way、表面弧度Surface Arc、側面摩擦Side Friction、側面弧度Side Arc，如圖3.26。

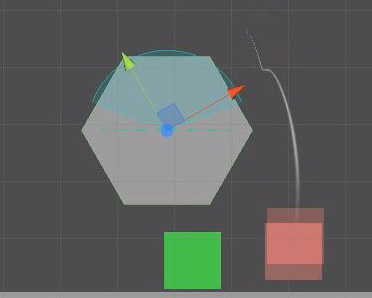


圖3.24 Platform Effector 2D範例



圖3.25碰撞器屬性

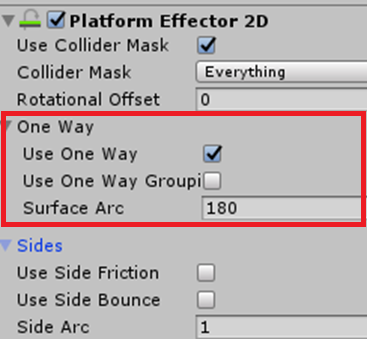


圖3.26 Platform Effector 2D屬性

1. Surface Effector 2D

表面效果，輸送帶或迴轉壽司轉盤的效果，如圖3.27[[11]](#_[11]_陳間時光部落格Unity_2D)。要使用Surface Effector 2D碰撞器需要更改屬性為Used By Effector，如圖3.28。 Surface Effector 2D有主要參數作用力Force的速度Speed、變化Variation、比例Scale，如圖3.29。



圖3.27 Surface Effector 2D範例



圖3.28碰撞器屬性

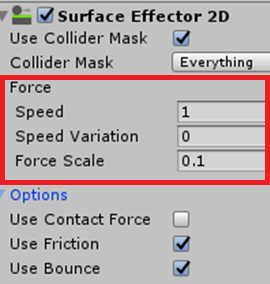


圖3.29 Surface Effector 2D屬性

## 3.5系統UI

UI通常都是開啟遊戲後第一個看到的東西，所以算是蠻重要的部分，像是遊戲一開始看見的就是主選單，遊戲內的背包、選項，還有血量存檔的介面，都是需要有按鍵觸發程式來執行其功能的介面。

1. 主畫面

當前Demo版的主畫面 圖3.30，主畫面含有開新遊戲、讀取遊戲、操作方式、離開遊戲這幾個按鈕，其按鈕功能為：開新遊戲就是將Scenes(場景)從menu(主畫面)轉換到Level 0(起始點) 圖3.31。

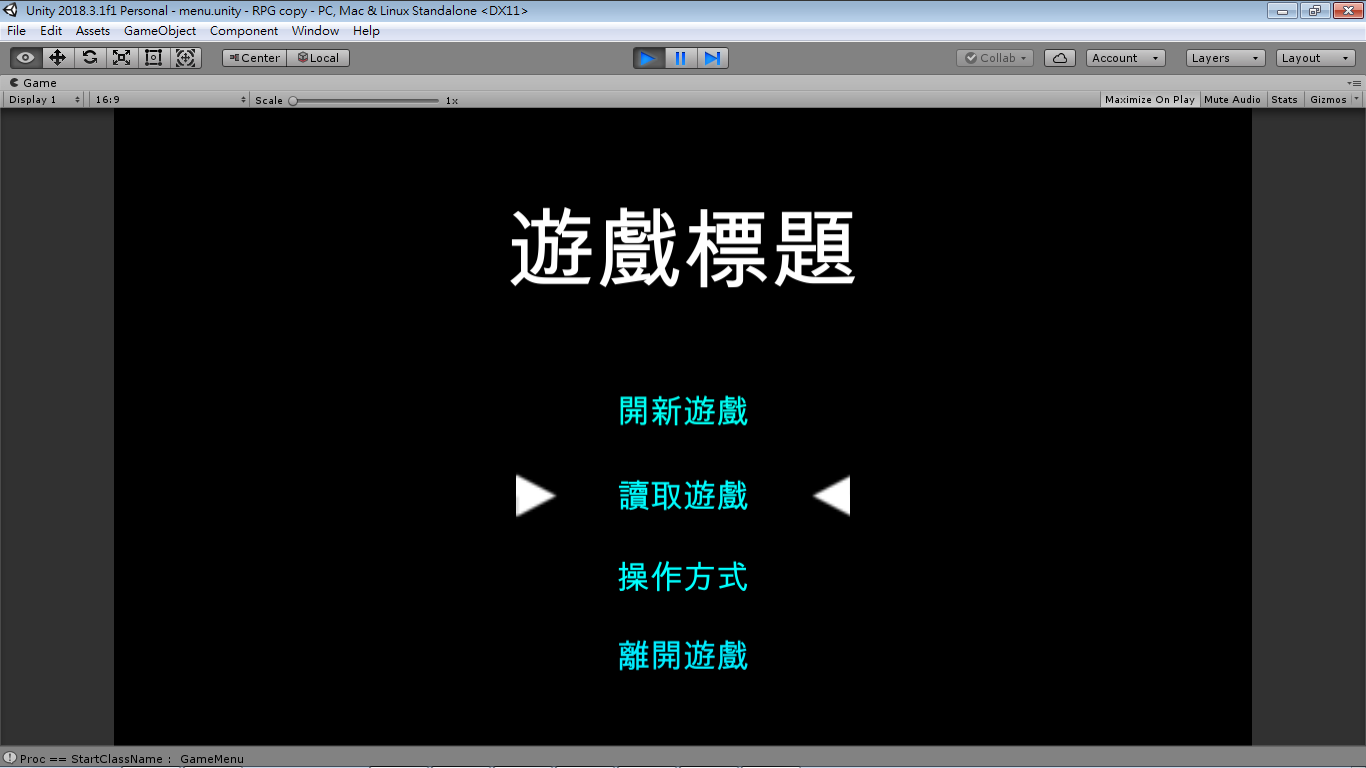


圖3.30主畫面

****

圖3.31場景

讀取遊戲就是若有存檔紀錄，將會讀取以存取的紀錄，如圖3.32。



圖3.32讀取檔案

1. 血量以及存檔

這裡我先把加扣血做成按鈕觸發，如圖3.33。然後按下儲存按鈕後就會將現在的血量紀錄下來程式碼如圖3.34。

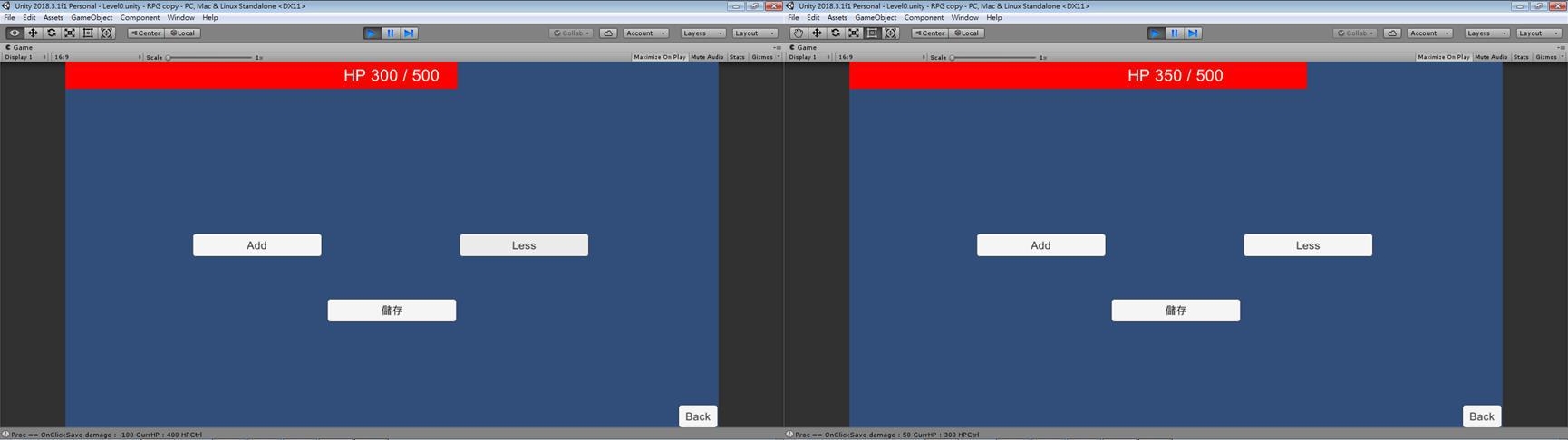


圖3.33傷害以及回血

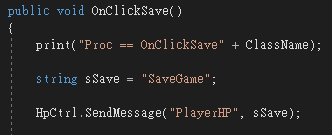


圖3.34儲存按鈕

1. 死亡

若角色血量歸0時會顯示「你死了」的畫面，如圖3.35，我的做法是先做好這個畫布，在開始時先關閉畫布，若血量<=0時觸發這個畫布開啟，如圖3.36、圖3.37。



圖3.35死亡畫面

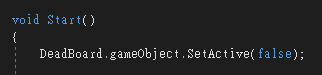


圖3.36關閉畫布

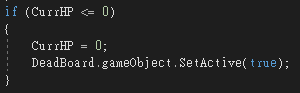


圖3.37觸發開啟畫布條件

## 3.6角色

首先我們必須先讓角色動起來，接著是攻擊的部分，攻擊的部份我們是創造一個可穿透的觸發區，為了不讓玩家攻擊得太頻繁，導致不平衡，所以我們也設置了冷卻時間，如圖3.38。

![一張含有 螢幕擷取畫面 的圖片

自動產生的描述](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADTkYAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAM1MgAAkpIAAgAAAAM1MgAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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圖3.38玩家創造觸發區攻擊敵人

在完成基礎的操作方式後，為了要讓角色看起來更自然，我們使用了Unity內建的腳本，來讓角色的面對方向更符合操作方向。

接著是敵人的簡單AI，我們要讓敵人先找到玩家的座標，然後以玩家與敵人之間的座標為基準，讓敵人在各狀態間切換，以應對玩家的行動，如圖3.39，也是為了不讓玩家被逼迫得太緊，我們也設計讓敵人適時的延遲，讓玩家有更良好的遊戲體驗。

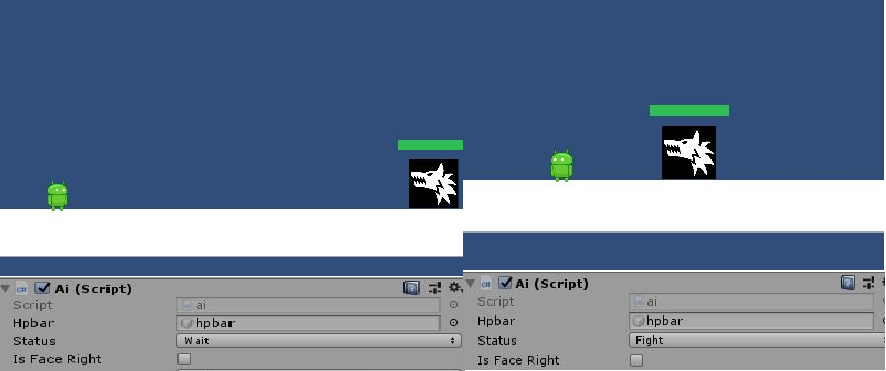


圖3.39敵人的狀態切換

1. 角色移動的實現

我們實現角色移動的方式是使用velocity函式，這個方法是指某物體目前的速度，我們以一定速度乘以玩家操作的方向，來實現x軸的移動，如圖3.40。



圖3.40改動角色的速度

而y軸的跳躍是以AddForce函式實現，它可以對某物施加一個力，而在跳躍期間以一個IsGround偵測是否站在地板上，來決定是否允許玩家跳躍，如圖3.41。

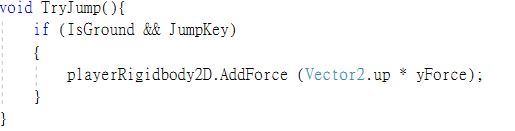


圖3.41跳躍

1. 攻擊

當玩家攻擊時我們會在玩家面對的地方使用Instantiate創建一個觸發區，如圖3.42。



圖3.42攻擊時用Instantiate創造一個觸發區

運用OnTriggerEnter2D，當敵人進入這個區域時，可以執行一段程式碼，如圖3.43。

**![一張含有 螢幕擷取畫面 的圖片

自動產生的描述](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADTkYAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAMzMwAAkpIAAgAAAAMzMwAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACozGpulk3fOEKhfbI5/SpKjKJ9qWQt84QqFz1GRz/KgCSiiigArE13xKdE1Cxs10fUdRlvi6wfYxFguqlipLyLg7QTk/LxjOSAduuL8balfWXiLw5/ZGly39ylzIzBobgQIrRMgLzRQyBOSOo9zgc0AXpvG9tB4Yu9al0rUh9gmaG8sgsTT25XqSBIVI2kN8rMSCMAk4q5c6q03hi9vbnRNTVFRwbPMazypj7y4kwuQcjcysO4BrK1XQNYufBuqWtnBp51XVpDJcJJdOkMRKhflcRFmwqKOVGeTx0rdvhqk/hyVYbWzOpSQbTA90whDEYI83yy2Bk87OfQVM78rtvb8bDj8Svt/wAEp3niC10Pw3p99HYX9zZzeREogAlkiEmFQsGbc3JUHbuOTn1NTaZr0mqWd8y6TeWV5ZPsezvGiDltgdfmjd0wQw5zxzmsu70zxHJ4K0uxhstLOo20tu00b6hIIQsLq2VfySSTsHBQY3Hk45v6NZ6xDrmtT6nb2MVrdyo9s1vcvI+BGqYdTGoH3c8E9cdsm57yt5/p/wAEmPwq4zw74juNR8GR61rGnzaey2/nSK7RsrgIGLptY/KecbtrccgUuk6k9t4R/t/XJnUzwfbZU6iBCuRGo9hgepOT3xTND0jUh4NOha9DaRBLb7GklnctL5sezbvO5F2N/sjd9ahttMl1zwBN4e1ET2V1HaixmlEZADhABJGeA6nhhg+xwQQE93byt+N/0H1Xz/4H6lvT/Eslxq0Onano97pU9zE0tv8AaHidZQuNy5jdsONwJB4x0JwcR6HrF9rdzrFnqWlXFnHb3Dwx3CTpsddowAyvvD4OSdoAJ4Y4zTLHT9bv9Zsr7xJa6dbHTVfyPsV5JMZXddpZg0abABnj5vvdRjmfTLTWbDVNYD21jJZ3EzXFrKLpxIzFVGx08vCjKn5gzdvlo669n+a/QWtvO6/L/Oxk+EPEhFjpWmXGnarsm3wRalclWjmkQMSpLOZScI3zsuGxkMcglP8AhaXh/wD4SpNEWeF5Hu/sQdL23ZvOyRzCJPMC7htyV6842/NSafpHiqC28Ow3Njo4/s67eW5aPUZT8hR0GwGAbjiQnB2jKgZ5yL2k6f4k0q4bTUGnyaULqSaO9a4f7QsbuZPL8ny9uRuKBvM6YOM8U1urg9tP6/r+vKxc+KvI8TNocWiapc3AjSYSxLF5RjY4L7mkGAp6g4Y87Q2DjfrnkstaXx/LqJtbD+yns1thL9sfz8qWbPl+Vt6tj7/QZ9q07g6t/bVn9kFn/ZmyT7WZS/nbuPL8vHy4+9uz7YpLZX8/1/Qb3fy/L/MxtR8bppt9f276Bq8w04LJczxJD5axMCfNBMgyOG+UfPx93BBNvXPEj6Kzsuj317bwQG5ubiHYqRR5I4LsNzcZ2j+EE9dobJ1rSPE163iWOys9J8rUrVbe1kl1CRW4BUl1EJ28OTwW5AHfIp+LfCmveJd6S2Gi3UUunrFHHe3krJYXPzbpUTyisp5UBzsZQDjG4ihdLjNbVfHMWl6tPYHQ9VujC8KNNbiDYTNxEBulB+Zsr04IycLhqraj8S9I0zS7K6vFFrPeSTRra3t5bW7RmJykm53k2HDDHysxOR2yRVvPD/ii+1Ge7e00iPzptOk2jUJW2+Q5eQZ8gdzgevU46U6w8PeJtIkh1Cyi0ua8We9E1nJeyJE8U85mVhKISQ6njGzBBPPSjp/Xb/MXT+vM2rbVV8XeDYtX8OXLwNMhltnJVgHUkbXCkqy5BU4JBHIPQ1a0vW/7W8KWutWlnNKbm1W4W1QqJCSudgLELnPHJA96J7y+0/QTLeQG7v3BCwWcbMu9idqA44UcAu20cZO3oKdpp934W+HSWOmNHcXunafsiaaOR1eVU6lYwXYFuygseg5oenM/66/8AI62X9f1/wAE342LxKzI0ZYAlGxlfY4JH5GnVT0ia9uNFs5tVgjt72SBGuIoySqSEDcBnnGfWrlN6OwlqgooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACqxntP7WWA3Mf2zyS4t/MG8x7gC23rjOBnpVmua8VgRax4YvHbC2+psGVRl3D28qAKo5bkgkAHABY8KSDqHRnS0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFYWsaXqGo+JtCnhFulhp073MztM3mOxhkjCBNuMfvM7iw6Yx3rdooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/9k=)**

圖3.43 OnTiggerEnter方法

而這個觸發區會在0.2後，用Destroy函式自動銷毀，如圖3.44。

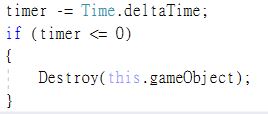


圖3.44攻擊觸發區的程式碼

1. 冷卻時間

以攻擊為例，先設一變數attackCd，attackCd隨時間減少，將attackCd小於0設為攻擊條件，每次攻擊時將attackCd設為冷卻時間，如圖3.45。

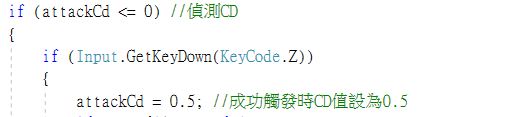


圖3.45冷卻時間

1. 反轉圖形

Unity提供的腳本Sprite Renderer中有一個Flip可以讓開發者以x軸或y軸反轉圖形，此技巧可以運用到移動，讓圖形方向跟著操作方向改變，如圖3.46。

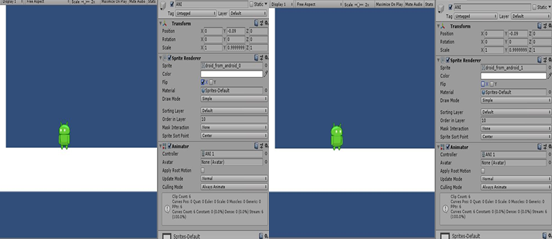


圖3.46左圖的flip項的x被勾了起來

1. 如何找到某一物件

在Unity提供的方法中，有一個GameObject.Find("player")，這個方法可以幫助開發者尋找“ ”字串中的物件。例如：我們要找尋player時，如圖3.47。



圖3.47尋找player

1. 敵人的簡單AI

我們使用狀態機的方式來操作敵人的行動，敵人分為等待與戰鬥兩個狀態，當玩家與敵人距離4單位時，如圖3.48，

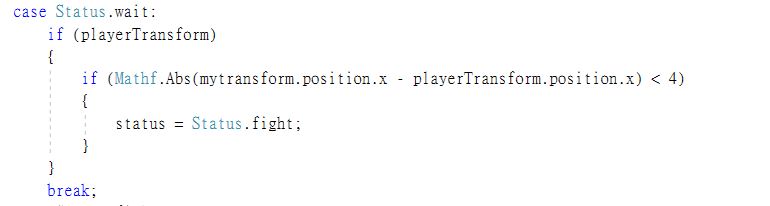


圖3.48等待狀態時偵測玩家距離

在等待狀態下敵人x軸座標減掉玩家x軸座標的絕對值小於4時，敵人會進入戰鬥狀態。而當玩家拉開距離到5單位時，如圖3.49，戰鬥狀態下敵人x軸座標減掉玩家x軸座標的絕對值大於5時，敵人則會變回等待狀態。

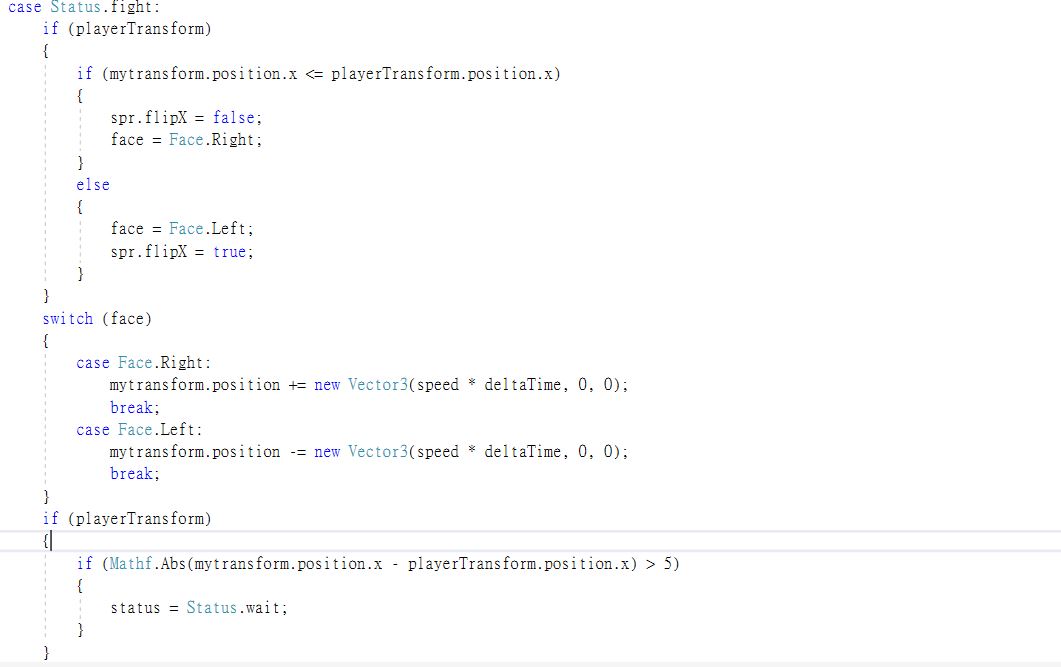


圖3.49戰鬥狀態時

1. 運用Invoke延遲動作

運用invoke("z", x)可以讓z函式延遲執行x秒，使用次函式的好處是可以不停止其他程序，也可讓想要函式的延遲執行。

# 甘特圖及人力配置

## 4.1甘特圖

在五月底我們會先把現在的成品做個簡單的整合，同時進行系統大綱與完成故事大綱。

進入暑假後，照著故事大綱與系統大綱，著手開始打造遊戲所需的各個物件，大約在暑假過完一半進行整合工作。

開學之後我們會將暑假所做的物件打磨、測試，然後一邊最終整合一邊檢查遊戲是否有錯誤。甘特圖如圖4.1。

![一張含有 螢幕擷取畫面 的圖片

自動產生的描述](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADTkYAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAM2NQAAkpIAAgAAAAM2NQAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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+EenhjuLeKRWjmiaCCSWMsVIfa0io20FdzH5g22jwRaG111YIr7UPs1pe3ltDavb6i8SRRySxovnNKbfCqqgZTsB97mu8tdGs7OW2ljEzy2sUkMUs9xJM4SRlZwWdiWyUXrnGMDA4qezsrewgaG0j8uNpZJiNxOXkcu559WYn8eKAJo/9Wv0FOpsf+rX6CnUANP+sX6H+lFB/wBYv0P9KKAA/wCsX6H+lOpp/wBYv0P9KdQAU2P/AFa/QU6mx/6tfoKAHU0/6xfof6U6mn/WL9D/AEoAdRRRQA2P/Vr9BTqbH/q1+gp1ADT/AKxfof6U6mn/AFi/Q/0p1ABTY/8AVr9BTqbH/q1+goAdTT/rF+h/pTqaf9Yv0P8ASgB1FFFADY/9Wv0FOpsf+rX6CnUANP8ArF+h/pTqaf8AWL9D/SnUAFNj/wBWv0FOpsf+rX6CgB1NP+sX6H+lOpp/1i/Q/wBKAHUUUUANj/1a/QU6mx/6tfoKdQA0/wCsX6H+lOpp/wBYv0P9KdQAU2P/AFa/QU6mx/6tfoKAHU0/6xfof6U6mn/WL9D/AEoAdRRRQA2P/Vr9BTqbH/q1+gp1ADT/AKxfof6U6mn/AFi/Q/0p1ABTY/8AVr9BTqbH/q1+goAdTT/rF+h/pTqaf9Yv0P8ASgB1FFFADY/9Wv0FOpsf+rX6CnUANP8ArF+h/pTqaf8AWL9D/SnUAFNj/wBWv0FOpsf+rX6CgB1NP+sX6H+lOpp/1i/Q/wBKAHUUUUANj/1a/QU6mx/6tfoKdQA0/wCsX6H+lOpp/wBYv0P9KdQAU2P/AFa/QU6mx/6tfoKAHU0/6xfof6U6mn/WL9D/AEoAdRRRQA2P/Vr9BTqbH/q1+gp1ADT/AKxfof6U6mn/AFi/Q/0p1ABXNXHjSytbh7eKyvbvyTseSERhdw4I+Z1JweOldLXla/8AHxe/9ftz/wCjnrrw1OM2+Y4MZWnSSUOp1X/Cd23/AECNS/8AIH/x2k/4Tq33g/2RqXAI/wCWH/xyuYors+r0uxwfW6/835HUf8J3bf8AQI1L/wAgf/HaP+E7tv8AoEal/wCQP/jtcvRR9Xpdg+t1/wCb8jp18dW6oAdI1LgY/wCWH/xyl/4Tu2/6BGpf+QP/AI7XL0UfV6XYPrdf+b8jt9H8S2us3jW8cFxbTJGX8ucLllyASCrEcEjv3FbdcD4U/wCRwj/68J//AEZDXbX1x9j0+4ud0K+TE0mbiXyoxgE/M+DtX1ODgc4NcGIpxhO0T08JVlVp3lvcsU2P/Vr9BXjt1qumz65c38mvzSsZY1vWbV/7MuW8vcDBBAZk2IH4ImCuoMhVpGcMvU6jdafrPjLRLdhqVxFd6fOZdODzwAhZolV5oGKgR4M+d64cDb852qec6zu6af8AWL9D/SvFfhzpaXerwmbTbNZNS0aa533Olr5fmFYI8qPs0PyFZGBRJHUhjzzubN1a6iPiXUdS0+7to7mNJxE0V3vuRt0c4kR2iEzx7hlZfM2twwXJ3UAe/UV5olpevc6ZNY3moW5Or6lCXtI8iINeyhiSLWUEEMCVkdEzGh6ruWfwxH/b/wAStR1qWbVrd7K3SJILoWy5HnXcbxkxAkxq6HALZLIGO7CGgD0KP/Vr9BTqbH/q1+gp1ADT/rF+h/pRQf8AWL9D/SigAP8ArF+h/pTqaf8AWL9D/SnUAFNj/wBWv0FOpsf+rX6CgB1NP+sX6H+lOpp/1i/Q/wBKAHUUUUANj/1a/QU6mx/6tfoKdQA0/wCsX6H+lOpp/wBYv0P9KdQAU2P/AFa/QU6mx/6tfoKAHU0/6xfof6U6mn/WL9D/AEoAdRRRQA2P/Vr9BTqbH/q1+gp1ADT/AKxfof6U6mn/AFi/Q/0p1ABTY/8AVr9BTqbH/q1+goAdTT/rF+h/pTqaf9Yv0P8ASgB1FFFADY/9Wv0FOpsf+rX6CnUANP8ArF+h/pTqaf8AWL9D/SnUAFNj/wBWv0FOpsf+rX6CgB1NP+sX6H+lOpp/1i/Q/wBKAHUUUUANj/1a/QU6mx/6tfoKdQA0/wCsX6H+lOpp/wBYv0P9KdQAU2P/AFa/QU6mx/6tfoKAHU0/6xfof6U6mn/WL9D/AEoAdRRRQA2P/Vr9BTqbH/q1+gp1ADT/AKxfof6U6mn/AFi/Q/0p1ABTY/8AVr9BTqbH/q1+goAdTT/rF+h/pTqaf9Yv0P8ASgB1FFFADY/9Wv0FOpsf+rX6CnUANP8ArF+h/pTqaf8AWL9D/SnUAFNj/wBWv0FOpsf+rX6CgB1NP+sX6H+lOpp/1i/Q/wBKAHUUUUANj/1a/QU6mx/6tfoKdQA0/wCsX6H+lOpp/wBYv0P9KdQAVwtz4R1Zbud7BrKWCaV5lM0zxspdixGAjDgk85ruqbH/AKtfoK1p1ZU3oYVqEKySl0OD/wCEU8Qf889N/wDAuT/41Sf8Ir4g3AeXpvIz/wAfcn/xqu/pp/1i/Q/0rf63Psjn+oUu7/r5HB/8Ip4g/wCeem/+Bcn/AMao/wCEU8Qf889N/wDAuT/41XfUUfW59kH1Cl3f9fI4AeFfEDKCI9N5Gf8Aj7k/+NUv/CKeIP8Annpv/gXJ/wDGq7yP/Vr9BTqPrc+yD6hS7v8Ar5HLeHPDt9p2rm91JrdWEDQxxwOzjDMpJJKr/dHGPWuppp/1i/Q/0p1c9SpKpK7OqlSjSjyxOXufBX2iwv7BfEOrQ2F89w0trGtttAmZmkUM0JYAl2/iyM9a6J42lsmjjmeB3jKrLGFLISPvDcCMjryCPUGpqbH/AKtfoKzNTlrP4d6Npm5tGabTJ5bWS2uLizWKOSYPk7t2z5GDMWHl7BkKMFUVRpx6ClsESyv7y12iUIInXYiMoVUWMqY1VAqbcLxs5zuk37FNP+sX6H+lAHLS/D7Trh9Ikub28ml0u6lu45HEJaWSS4Wdi37vj50H3Np2kjOCatWngjQ9Pv7O80+2e2uLW4kuDIsrM1w7q6kzMxJkP71iCxJGSAQCQehooAbH/q1+gp1Nj/1a/QU6gBp/1i/Q/wBKKD/rF+h/pRQAH/WL9D/SnU0/6xfof6U6gApsf+rX6CnU2P8A1a/QUAOpp/1i/Q/0p1NP+sX6H+lADqKKKAGx/wCrX6CnU2P/AFa/QU6gBp/1i/Q/0p1NP+sX6H+lOoAKbH/q1+gp1Nj/ANWv0FADqaf9Yv0P9KdTT/rF+h/pQA6iiigBsf8Aq1+gp1Nj/wBWv0FOoAaf9Yv0P9KdTT/rF+h/pTqACmx/6tfoKdTY/wDVr9BQA6mn/WL9D/SnU0/6xfof6UAOooooAbH/AKtfoKdTY/8AVr9BTqAGn/WL9D/SnU0/6xfof6U6gApsf+rX6CnU2P8A1a/QUAOpp/1i/Q/0p1NP+sX6H+lADqKKKAGx/wCrX6CnU2P/AFa/QU6gBp/1i/Q/0p1NP+sX6H+lOoAKbH/q1+gp1Nj/ANWv0FADqaf9Yv0P9KdTT/rF+h/pQA6iiigBsf8Aq1+gp1Nj/wBWv0FOoAaf9Yv0P9KdTT/rF+h/pTqACmx/6tfoKdTY/wDVr9BQA6mn/WL9D/SnU0/6xfof6UAOooooAbH/AKtfoKdTY/8AVr9BTqAGn/WL9D/SnU0/6xfof6U6gApsf+rX6CnU2P8A1a/QUAOpp/1i/Q/0p1NP+sX6H+lADqKKKAGx/wCrX6CnU2P/AFa/QU6gBp/1i/Q/0p1NP+sX6H+lOoAKbH/q1+gp1Nj/ANWv0FADqaf9Yv0P9KdTT/rF+h/pQA6iiigBsf8Aq1+gp1Nj/wBWv0FOoAaf9Yv0P9KdTT/rF+h/pTqACmx/6tfoKdTY/wDVr9BQA6mn/WL9D/SnU0/6xfof6UAOooooAbH/AKtfoKdTY/8AVr9BTqAGn/WL9D/Sig/6xfof6UUAf//Z)

圖4.1甘特圖

## 4.2預期成果

我們預想在完成遊戲時，會有五個大區域給玩家探索，在每個區域配置兩種怪物與一種頭目及怪物，並將各種蒐集要素的碎片散落在各個區域，每個區域預計遊玩時間有五到十分鐘，如圖4.2。

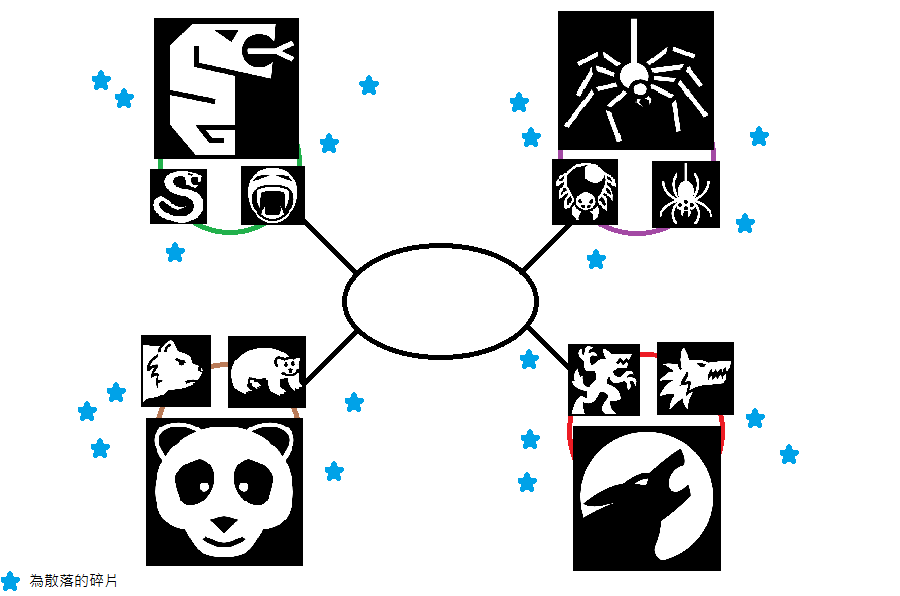
****

圖4.2區域關係示意圖

在增加可玩性方面，我們決定設計六種特殊道具提供玩家搭配使用，玩家可以從各種道具中選取兩樣來展現自己的戰鬥風格。

## 4.3人力配置

三百六十行，行行出狀元，自古以來就有分工的概念，只有一個人是難以成大事的，適當的分配工作，除了可以減輕負擔，也可以增加彼此的效率，更加增進自己的領域。參與本專題之人員及工作內容如表4.1所示。

表4.1參與本項研究之人員及工作內容

|  |  |  |
| --- | --- | --- |
| 姓名 | 工作內容 | 共同工作 |
| 張景閎 | 特效、技能設計 | 資料查詢、文書撰寫、音 |
| 張兆澤 | 場景程式、劇情設計 | 樂音效、美術設計 |
| 陳立仁 | 角色程式、人物設計 |  |
| 柳淳栩 | UI介面、道具設計 |  |

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