

程式作品

APP 打怪遊戲

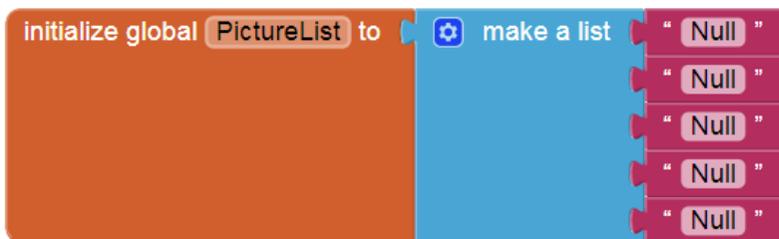


此遊戲是使用 App Inventor2 所製作設計
主要透過畫布、動畫元件、音效元件及音訊播放器，
來設計打魔鬼遊戲，類似打地鼠，並使用音效設計，
讓手機遊戲更充滿動感效果。

程式設計共分為五大部份：

- 「自訂程序宣告」
- 「遊戲開始」
- 「遊戲倒數」
- 「顯示天使或惡魔」
- 「打擊計分」

程式碼：



使用軟體

APP Inventor 2

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to PictureVisibleOff

```
do
  set ImageSprite1 . Visible to false
  set ImageSprite2 . Visible to false
  set ImageSprite3 . Visible to false
  set ImageSprite4 . Visible to false
  set ImageSprite5 . Visible to false
```

to ClockControl status

```
do
  set ClockGameTime . TimerEnabled to get status
  set Clock1 . TimerEnabled to get status
  set Clock2 . TimerEnabled to get status
  set Clock3 . TimerEnabled to get status
  set Clock4 . TimerEnabled to get status
  set Clock5 . TimerEnabled to get status
```

to TimeAndScore

```
do
  call Canvas1 .Clear
  set Canvas1 . FontSize to 20
  set Canvas1 . PaintColor to 
  call Canvas1 .DrawText
    text join (" Time: " get global RemainderTime)
    x 10
    y 390
  call Canvas1 .DrawText
    text join (" Score: " get global Score)
    x 10
    y 410
```

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```
initialize global BestScore to 0

to BestScoreRecord currenScore
do
  if is empty call TinyDB1 .GetValue
    tag "record"
    valueIfTagNotThere ""
  then call TinyDB1 .StoreValue
    tag "record"
    valueToStore 0
  set global BestScore to call TinyDB1 .GetValue
    tag "record"
    valueIfTagNotThere ""
  if get global BestScore < get currenScore
  then set global BestScore to get currenScore
    call TinyDB1 .StoreValue
      tag "record"
      valueToStore get global BestScore
  call Canvas1 .Clear
  set Canvas1 .FontSize to 30
  call Canvas1 .DrawText
    text "Time Up!!"
    x 100
    y 250
  call Canvas1 .DrawText
    text join "The best score:"
      get global BestScore
    x 30
    y 300
```

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```
when ImageSprite1 .Touched
  x y
do call CalculateScore
  index 1
```

```
when ImageSprite2 .Touched
  x y
do call CalculateScore
  index 2
```

```
when ImageSprite3 .Touched
  x y
do call CalculateScore
  index 3
```

```
when ImageSprite4 .Touched
  x y
do call CalculateScore
  index 4
```

```
when ImageSprite5 .Touched
  x y
do call CalculateScore
  index 5
```

```
when ClockGameTime .Timer
do set global RemainderTime to get global RemainderTime - 1
  call TimeAndScore
  if get global RemainderTime = 0
  then set global GameFlag to false
    call ClockControl
      status false
    call PictureVisibleOff
    set ImageSpriteStart .Visible to true
    call BestScoreRecord
      currenScore get global Score
    call Player1 .Stop
```

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```
when Clock1.Timer
do
  set Clock1.TimerInterval to random integer from 1000 to 1200
  if get global Sprite1Show = false
  then
    if random integer from 0 to 1 > 0
    then
      set ImageSprite1.Picture to "Angle02.png"
    else
      set ImageSprite1.Picture to "Devil02.png"
    replace list item list get global PictureList
      index 1
      replacement ImageSprite1.Picture
    set ImageSprite1.Visible to true
    set global Sprite1Show to true
  else
    replace list item list get global PictureList
      index 1
      replacement "Null"
    set ImageSprite1.Visible to false
    set global Sprite1Show to false
```

```
when Clock2.Timer
do
  set Clock2.TimerInterval to random integer from 1000 to 1200
  if get global Sprite2Show = false
  then
    if random integer from 0 to 1 > 0
    then
      set ImageSprite2.Picture to "Angle02.png"
    else
      set ImageSprite2.Picture to "Devil02.png"
    replace list item list get global PictureList
      index 2
      replacement ImageSprite2.Picture
    set ImageSprite2.Visible to true
    set global Sprite2Show to true
  else
    replace list item list get global PictureList
      index 2
      replacement "Null"
    set ImageSprite2.Visible to false
    set global Sprite2Show to false
```

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```
when Clock3.Timer
do
  set Clock3.TimerInterval to random integer from 1000 to 1200
  if get global Sprite3Show = false
  then
    if random integer from 0 to 1 > 0
    then
      set ImageSprite3.Picture to "Angle02.png"
    else
      set ImageSprite3.Picture to "Devil02.png"
      replace list item list get global PictureList
      index 3
      replacement ImageSprite3.Picture
      set ImageSprite3.Visible to true
      set global Sprite3Show to true
    else
      replace list item list get global PictureList
      index 3
      replacement "Null"
      set ImageSprite3.Visible to false
      set global Sprite3Show to false
```

```
when Clock4.Timer
do
  set Clock4.TimerInterval to random integer from 1000 to 1200
  if get global Sprite4Show = false
  then
    if random integer from 0 to 1 > 0
    then
      set ImageSprite4.Picture to "Angle02.png"
    else
      set ImageSprite4.Picture to "Devil02.png"
      replace list item list get global PictureList
      index 4
      replacement ImageSprite4.Picture
      set ImageSprite4.Visible to true
      set global Sprite4Show to true
    else
      replace list item list get global PictureList
      index 4
      replacement "Null"
      set ImageSprite4.Visible to false
      set global Sprite4Show to false
```

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```
when Clock5.Timer
do
  set Clock5.TimerInterval to random integer from 1000 to 1200
  if get global Sprite5Show = false
  then
    if random integer from 1 to 2 > 0
    then
      set ImageSprite5.Picture to "Angle02.png"
    else
      set ImageSprite5.Picture to "Devil02.png"
    replace list item list get global PictureList
      index 5
      replacement ImageSprite5.Picture
    set ImageSprite5.Visible to true
    set global Sprite5Show to true
  else
    replace list item list get global PictureList
      index 5
      replacement "Null"
    set ImageSprite5.Visible to false
    set global Sprite5Show to false
```

```
to CalculateScore index
do
  set global NowPicture to select list item list get global PictureList
    index get index
  if get global GameFlag = true
  then
    if compare texts get global NowPicture = "Devil02.png"
    then
      set global Score to get global Score + 10
    if compare texts get global NowPicture = "Angle02.png"
    then
      call Sound1.Vibrate
        millisecs 200
      set global Score to get global Score - 20
    if get global Score < 0
    then
      set global Score to 0
```

```
when ImageSprite1 .Touched
  x y
do call CalculateScore
  index 1

when ImageSprite2 .Touched
  x y
do call CalculateScore
  index 2

when ImageSprite3 .Touched
  x y
do call CalculateScore
  index 3
```

```
when ImageSprite4 .Touched
  x y
do call CalculateScore
  index 4

when ImageSprite5 .Touched
  x y
do call CalculateScore
  index 5
```