



NODUS OF Evil

INSTRUCTION MANUAL

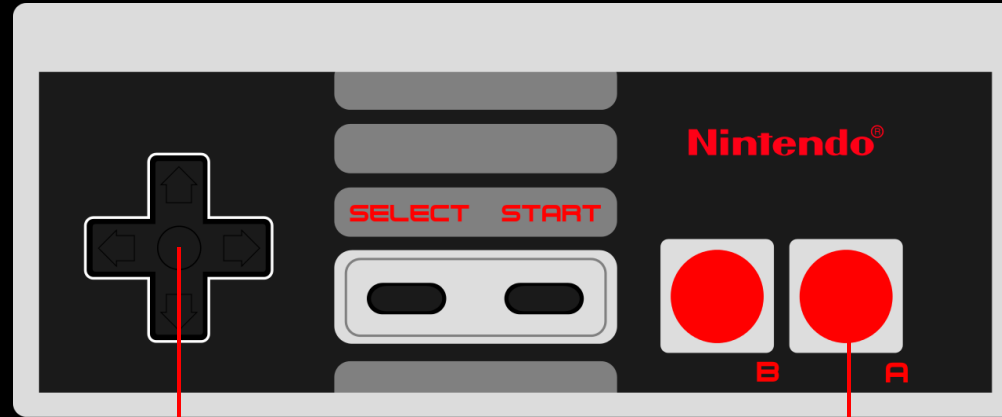
THANK YOU FOR TRYING OUT NODUS OF EVIL

GAME DESCRIPTION

IN A LAND CONTROLLED BY FEARSOME GODS, THE BATTLEFIELD IS SET. THE CRUEL GOD SATRINA AWAITS HER OPPONENT.
THE VICTOR WILL SHAPE THE WORLD IN THEIR IMAGE.

THIS WORLD IS MINE
-SATRINA

How To PLAY



PRESS LEFT OR RIGHT
TO MOVE
ACCORDINGLY

PRESS A TO
JUMP

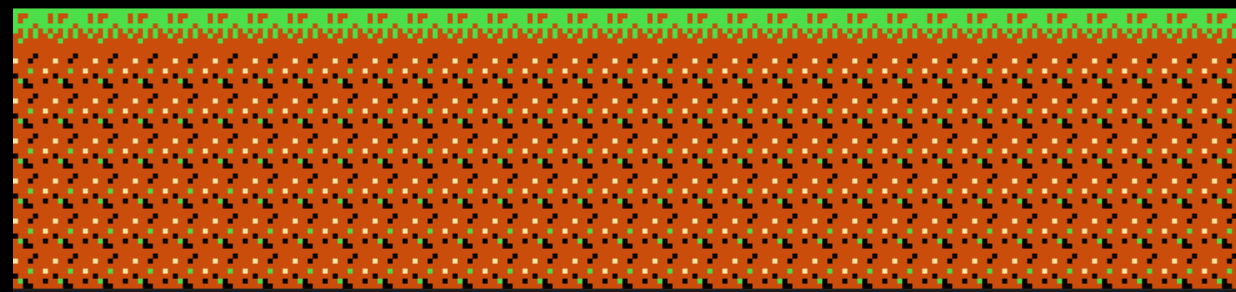
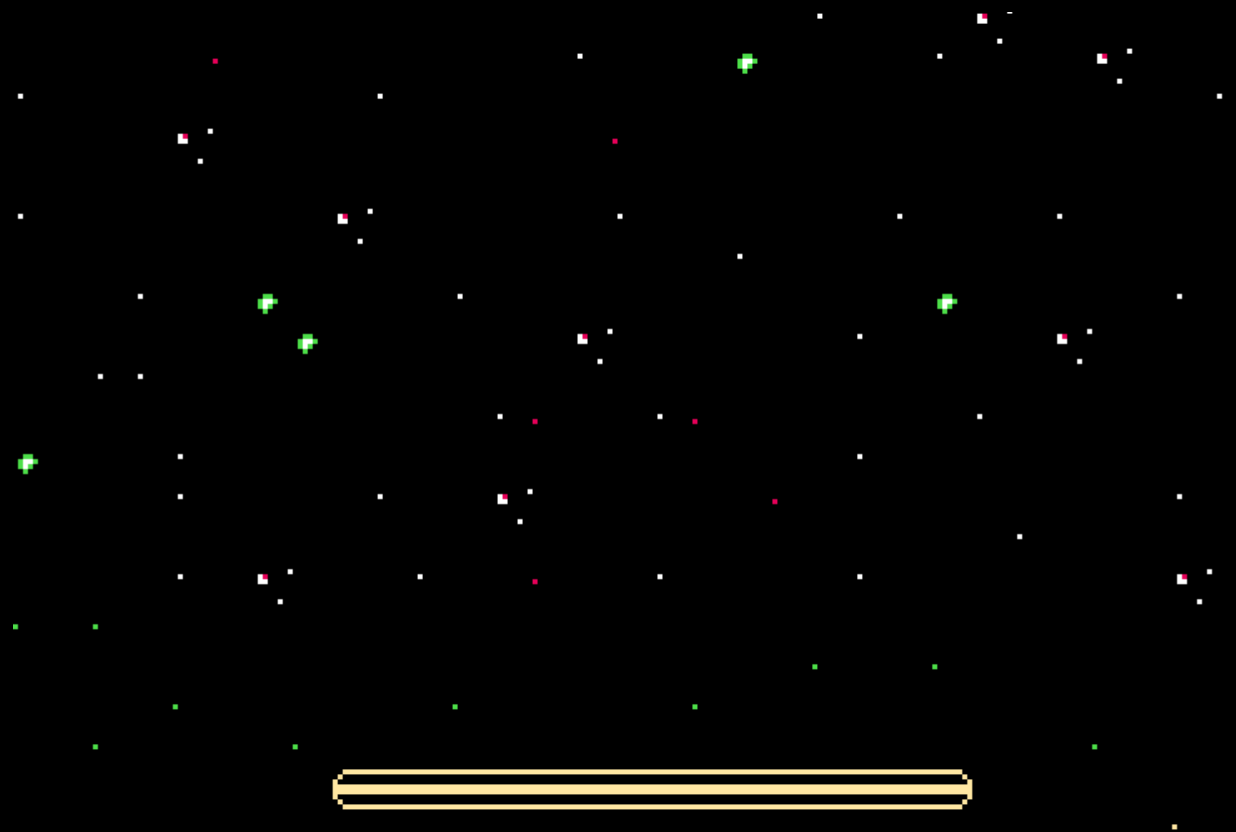
HOW IT WAS MADE BACKGROUND

- NEXXT WAS USED TO CREATE A NAME TABLE.
- USING THE NEXXT CANVAS, THE BACKGROUND WAS DESIGNED
- IN THE ACTUAL CODE, INFORMATION PROVIDED BY NEXXT WAS USED TO LOAD THE APPROPRIATE VALUES INTO THE PPU.
- THESE VALUES ALLOWED FOR THE DISPLAY OF THE BACKGROUND.

```
499  
500  ; -----  
501      LDY #$c0  
502      LDX #$40  
503      load_floor:  
504      LDA PPUSTATUS  
505      LDA #$22  
506      STA PPUADDR  
507      TYA  
508      INY  
509      STA PPUADDR  
510      STX PPUDATA  
511      cpy #$df  
512      bne load_floor  
513  
514  
515  
516
```

A LOOP DESIGNED TO LOAD THE FLOOR TILES

THE BATTLEFIELD IS SET...



HOW IT WAS MADE CHARACTER

- PIXILART.COM WAS USED TO DESIGN THE MAIN CHARACTER SPRITE
- THE CHARACTER SPRITE IS MADE UP OF 6 DIFFERENT TILES.
- RECREATING THE SPRITE IN NEXXT ALLOWED THE GRAPHICS TO BE INCLUDED IN THE GAME'S CHR FILE.

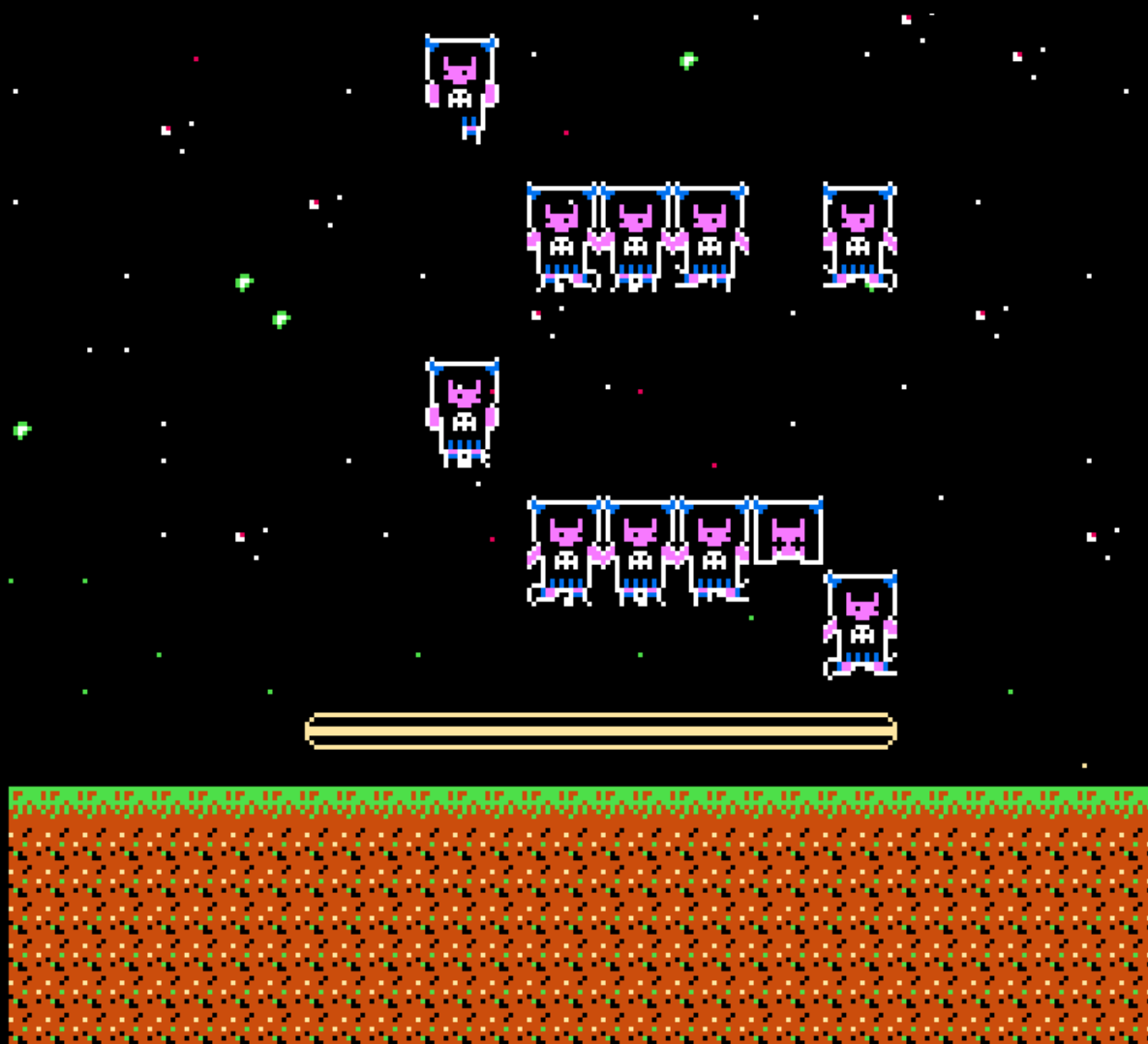
```
LDA satrina_y ; Y default: #$97
STA $0200
LDA #$02
STA $0201
LDA #$01
STA $0202 ; ATTRIBUTE TABLE, to FLIP, do $41
LDA satrina_x
STA $0203 ; X Location LEFT HEAD

LDA satrina_y; Y default #$97
STA $0204
LDA #$03
STA $0205
LDA #$01
STA $0206 ; ATTRIBUTE TABLE, to FLIP, do $41
LDA satrina_x ; X
CLC
ADC #$08
STA $0207 ; X Location RIGHT HEAD

LDA satrina_y ; Y default #$9f
STA $0208
LDA #$12
STA $0209
LDA #$01
STA $020a ; ATTRIBUTE TABLE, to FLIP, do $41
LDA satrina_x ; X
STA $020b ; X Location LEFT BODY
```

CODE FOR LOADING THE FIRST 3 SPRITES
CORRESPONDING TO SATRINA

SATRINA ARRIVES



HOW IT WAS MADE ANIMATION

- DURING THE NON MASKABLE INTERRUPT, THE RENDER AND DRAW PROCEDURES ARE CALLED.
- ANIMDELAY AND ANIMCOUNT WERE CREATED IN THE ZEROPAGE.
- EVERYTIME ANIMDELAY REACHES 10, ANIMCOUNT INCREASES BY 1.
- DRAW RENDERS THE SPRITE ACCORDING TO ANIMCOUNT.

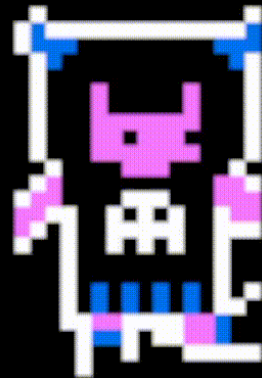
```
pass:

    LDX animDelay
    cpx #$0f ; Delay between frames
    beq executeAnim
    INX
    STX animDelay
    jmp endRender

executeAnim:
    LDA satrina_dir
    CMP #$00
    beq flipped
    LDA #$01
    STA $0202
    STA $0206
    STA $020a
    STA $020e
    LDX #$00
    STX animDelay
    LDX animCount
    cpx #$00
    beq RunFirstStage
    cpx #$01
    beq RunIdleStage
    cpx #$02
    beq RunFinalStage
```

CODE HANDLING THE ANIMATION

SATRINA IS WARMING UP...



HOW IT WAS MADE MOVEMENT

- PLAYER X AND Y VALUES WERE DECLARED IN THE ZEROPAGE.
- THESE VALUES WERE INCREMENTED OR DECREASED ACCORDING TO THE CURRENT GAMEPAD STATUS.
- VERTICAL MOVEMENT WAS CALCULATED BY APPLYING A SUDDEN VERTICAL VELOCITY AND DECREASING IT EVERY FRAME. THIS RESULTED IN A JUMPING ARC.

```
jumping_pressed:
    ; LDA satrina_y
    ; CLC
    ; SBC #$01
    ; STA satrina_y
    LDA #$0f
    STA satrina_y_velocity
    LDA #$00
    STA satrina_on_ground
    JMP exit
```

CODE SHOWING THE UPWARDS VELOCITY BEING SET.

HOW IT WAS MADE COLLISION

- BOUNDARIES WERE DEFINED USING X AND Y POSITIONS. IF SATRINA WOULD APPROACH THESE, THE APPROPRIATE DIRECTION WOULD BECOME LOCKED.
- BOUNDARIES INCLUDE THE LEFT BORDER, THE RIGHT BORDER, THE PLATFORM RIGHT BORDER, THE PLATFORM LEFT BORDER.
- IN ORDER FOR SATRINA TO LAND ON THE PLATFORM, IF SHE IS WITHIN THE PLATFORM X POSITION RANGE, THE GROUND IS SHIFTED UPWARDS.

```
PlatformCheckRight:
    LDA satrina_y
    CMP #$8f
    BCC move_in_direction
    LDA #$01
    STA LockRight
    JMP move_in_direction
```

```
PlatformCheckLeft:
    LDA satrina_y
    CMP #$8f
    BCC move_in_direction
    LDA #$01
    STA LockLeft
    JMP move_in_direction
```

CODE SHOWING THE PLATFORM COLLISION

SATRINA EXAMINES THE BATTLEFIELD...





THANK YOU

GITHUB REPOSITORY

- <https://github.com/AcevedoC17/CIIC4082Project1>