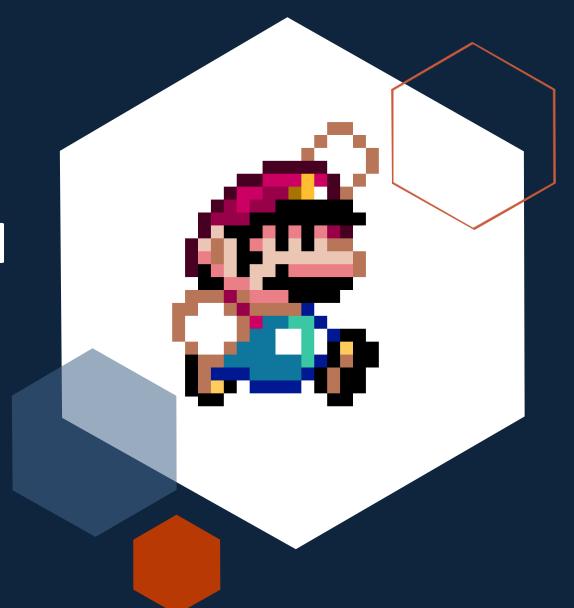
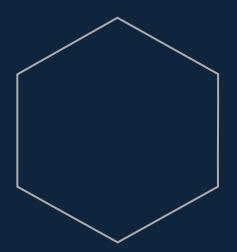
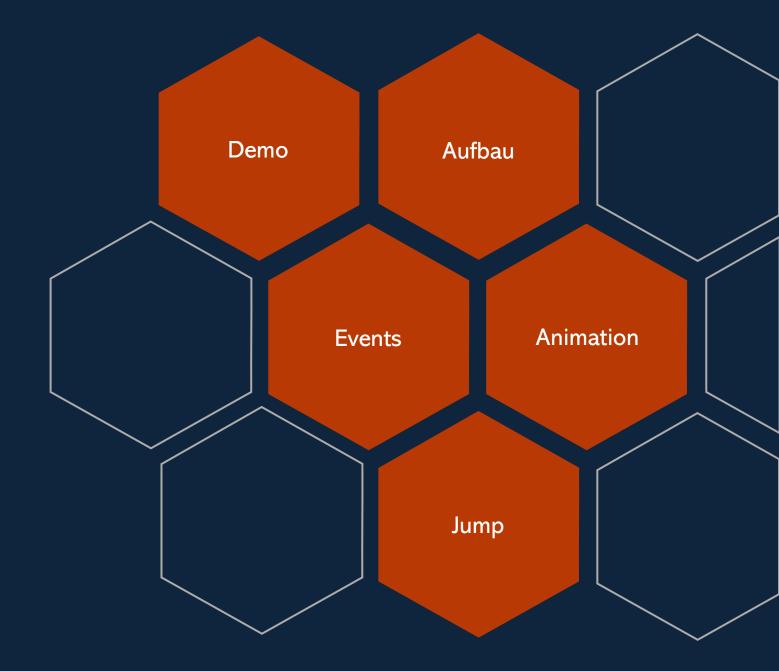
Jump-and-Run-Spiel

Aidan, Lisa, Johanna

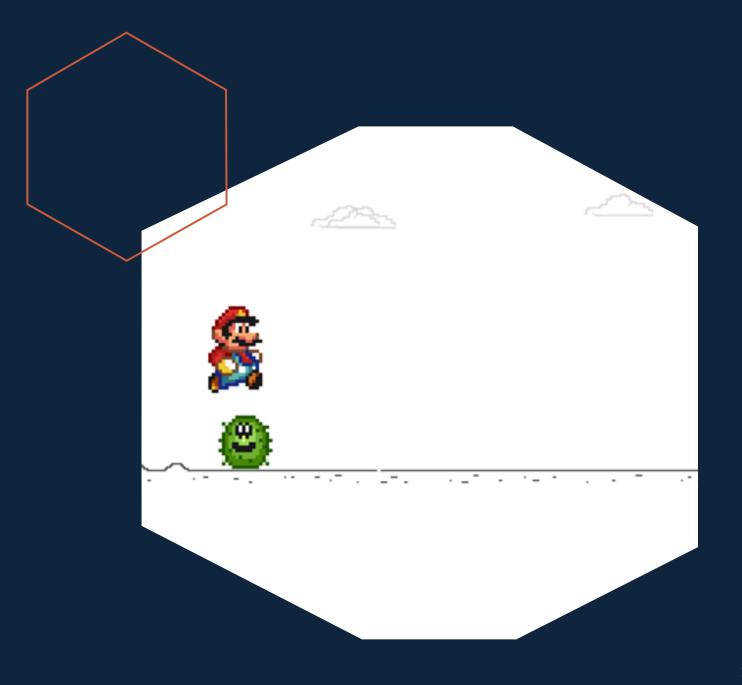




Agenda

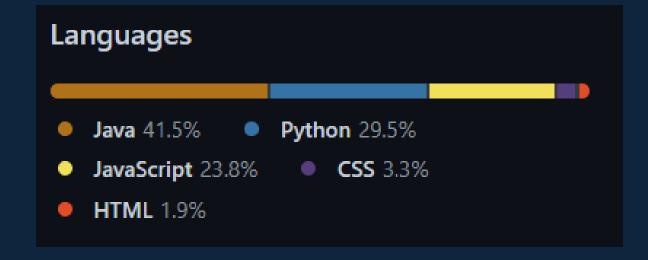


Demo

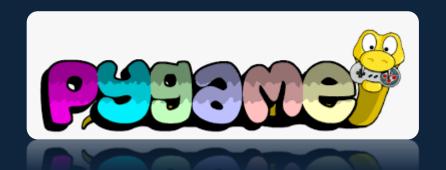




Aufbau



Aufbau - Python



Funktionen

main

menu

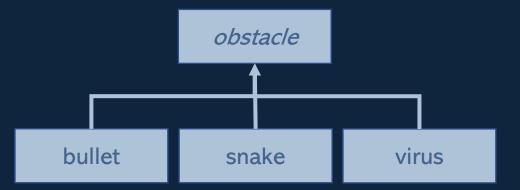
highscore

Klassen

mario

cloud

ground



Aufbau - Java



GameScreen

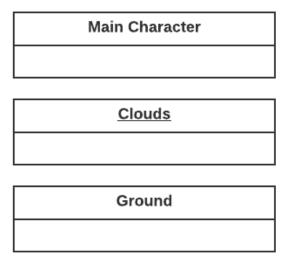
- -extends JPanel
- implements Runnable, KeyListender

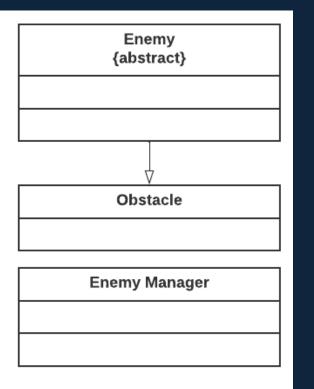
GameWindow

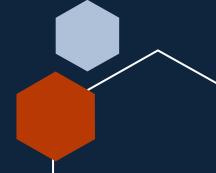
-extends JFrame

Animation

Resource







Aufbau - Javascript



HTML Klassen

- world
- score
- highScore
- start-screen
- ground
- player



script.js

Hauptfile mit allen Funktionalitäten (Start, Niederlage, Score etc.)

updateCustomProperty.js

Allgemeine Getter und Setter für alle HTML Objekte

player.js

Spielerbewegung mit springen und ducken

enemy.js

Erstellung und Bewegung verschiedener Gegner

ground.js

Bewegung des Bodens

clouds.js

Erstellung und Bewegung der Wolken



Position und Größe wird gesetzt und von JS verändert



Events



Events


```
Java
@Override
public void keyPressed(KeyEvent e) {
    if(gameState == GAME_PLAY_STATE) {
       mainCharacter.jump();
        jumpedInGame = true;
public void keyReleased(KeyEvent e) {
    switch (e.getKeyCode()){
       case KeyEvent.VK_SPACE:
           if(gameState == GAME BEGIN STATE){
               gameState = GAME_PLAY_STATE;
            }else if(gameState == GAME_OVER_STATE && jumpedInGame){
               jumpedInGame = false;
            }else if(gameState == GAME_OVER_STATE){
                   Thread.sleep((long) (GAMEOVER_FRAMES*FRAMETIME));
                }catch(InterruptedException ex){
                   ex.printStackTrace();
               resetGame();
               gameState = GAME_PLAY_STATE;
```

Python

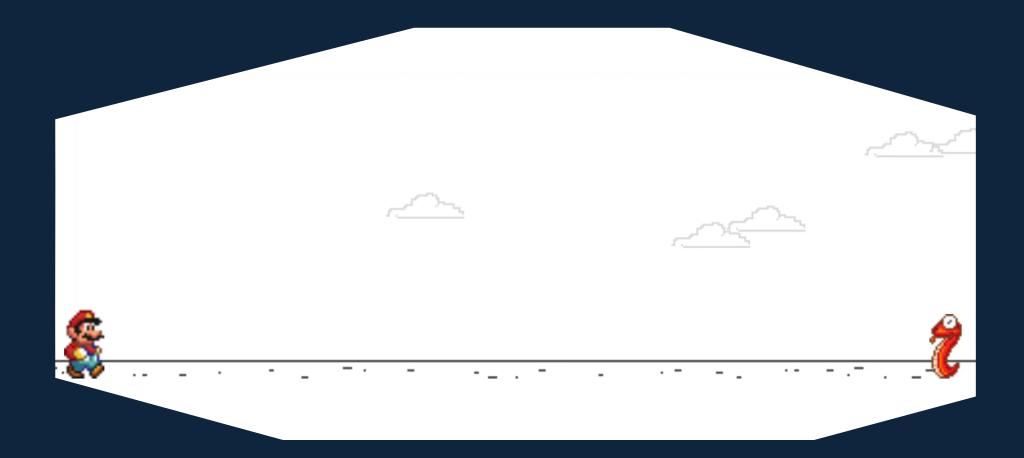
Java

```
@Override
public void keyPressed(KeyEvent e) {
    if(gameState == GAME PLAY STATE) {
        mainCharacter.jump();
        jumpedInGame = true;
@Override
public void keyReleased(KeyEvent e) {
    switch (e.getKeyCode()){
        case KeyEvent.VK SPACE:
            if(gameState == GAME BEGIN STATE){
                gameState = GAME PLAY STATE;
            }else if(gameState == GAME_OVER_STATE && jumpedInGame){
                jumpedInGame = false;
            }else if(gameState == GAME OVER STATE){
                try {
                    Thread.sleep((long) (GAMEOVER_FRAMES*FRAMETIME));
                }catch(InterruptedException ex){
                    ex.printStackTrace();
                resetGame();
                gameState = GAME PLAY STATE;
            break:
```

Python

```
40 v def events(highscore: int):
41 from main import main
42 v for event in pygame.event.get():
43 v if event.type == pygame.QUIT or event.type == pygame.K_ESCAPE:
44 run = False
45 exit()
46 v if event.type == pygame.KEYDOWN:
47 main(highscore)
```

Animation



Jump

