An Introduction to Game Development

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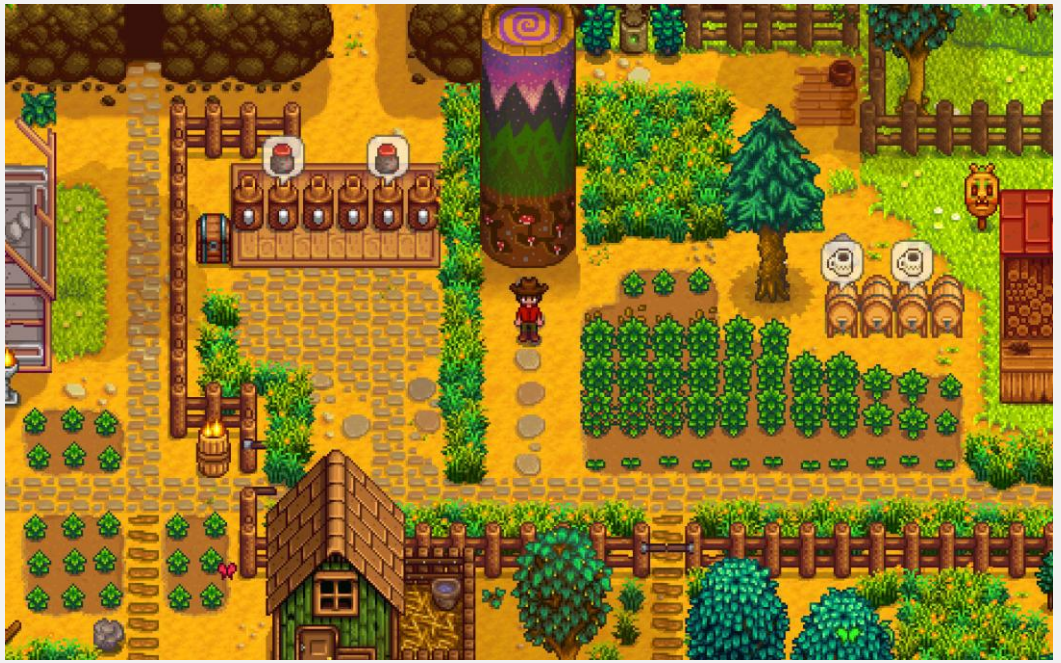
PRESS START

What games do you play?

What is Game Dev and why game dev?

- Making fun, interactive experiences using art, code, and creativity!
- Game Development is one of the highest revenue generating industry according to Wikipedia the revenue of game industry in 2022 was $142B.
- With modern tools game development is easier than ever



Stardew Valley – A Game Made by Solo Developer

Where can you play games

- PC
- Game Consols – XBOX, PlayStation, Nintendo Switch
- Smartphone – Android, iOS

FIFA on PS5

PUBG/BGMI on android

Valorant on PC

Mario Kart on Nintendo Switch

Introduction to Game Genres

Platformer: A fast-paced genre focused on movement, timing, and reflex-based challenges, often with jumping and combat.

Puzzle: A genre centered around solving logic or pattern-based problems to progress.

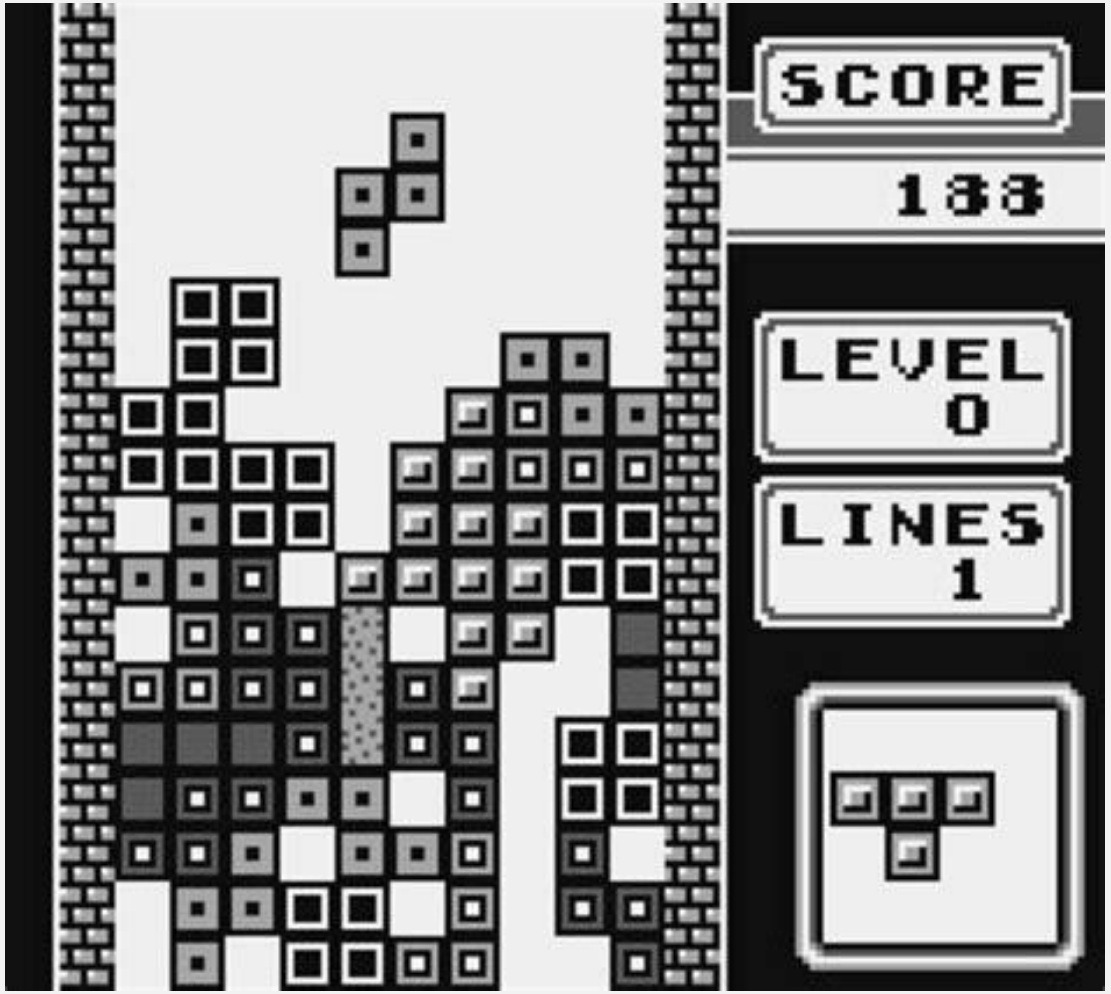
Role-Playing Game (RPG): A story-driven genre where players control characters, make choices, and develop abilities over time.

Shooter: A genre focused on aiming and shooting mechanics, often requiring quick reactions and precision.

Strategy: A thinking-focused genre where players plan, manage resources, and make tactical decisions to achieve victory.

Interaction Time -
Guess the Game Genre from Screenshot

Celeste - A Platformer Game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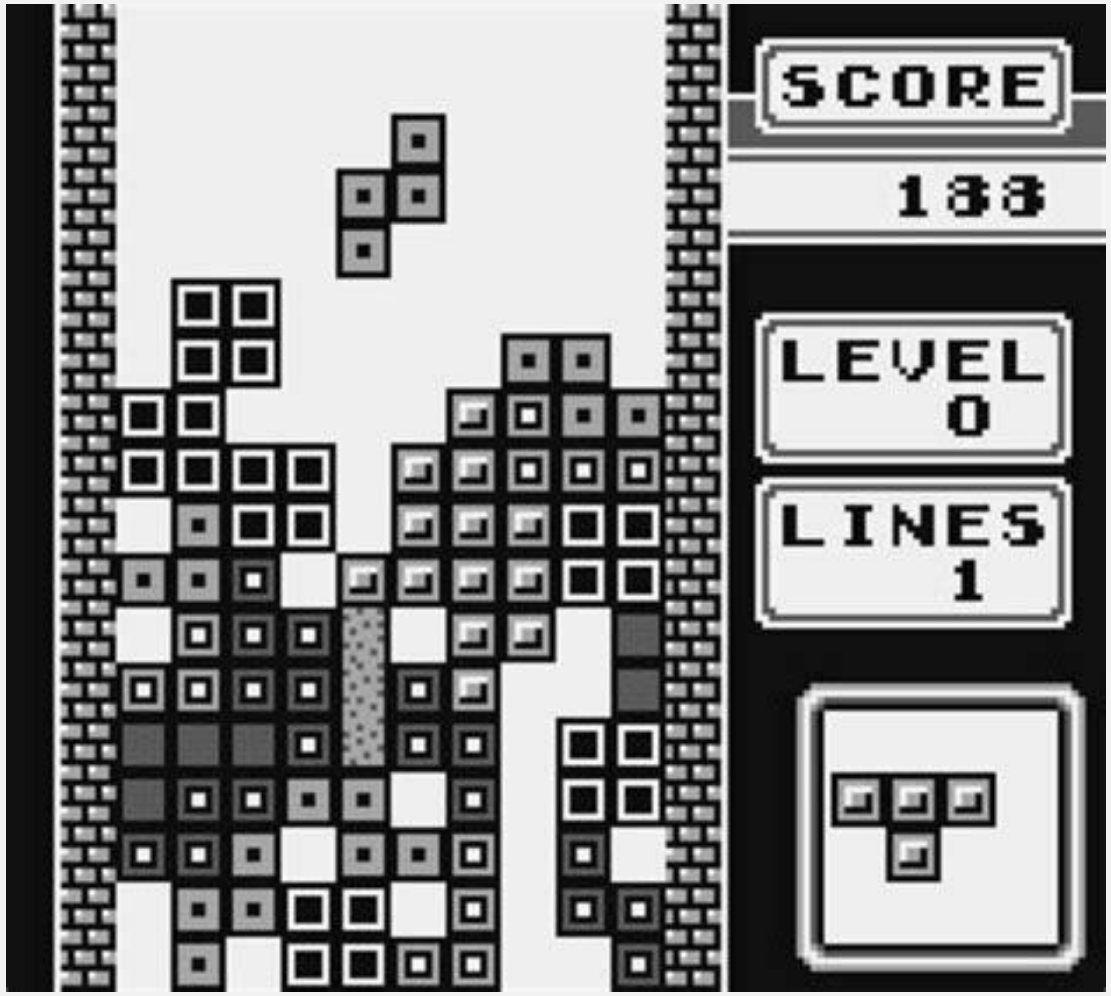


Tetris – A Puzzle game

Undertale - a RPG Game

Game Development Tools

Game engines: A tool/program with pre implemented physics, rendering and export techniques so that you can focus on the main thing – making games!

Other important components:

- Art
- Animation
- 3D models
- Music
- Visual Effects
- Sound Effects

Game Engine - Unity

Game Engine - Godot

Game Engine - Unreal

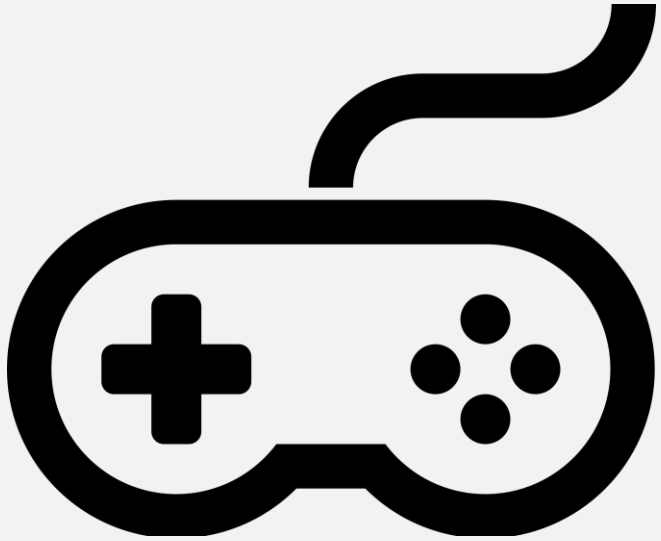
Let’s make a game

What do we teach?

BCA Gaming and Animation – 4 years course

What you will learn in addition to normal BCA?

- Game Development 1 – Games in 2D
- Game Development 2 – Games in 3D
- AR and VR Development



Thank You

Further queries?

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