TEALS MINECRAFT PROJECT

Lecture 1: Intro to Minecraft Forge

UNIT 1 OBJECTIVES

- Install Minecraft Forge

- Create and explore a single-player Minecraft World

WHAT IS MINECRAFT?

Open world game, never ending generation

Very blocky — "8-bit" styled

Millions of players all around the world

Originally an "indie" (independently developed) game; commercially released in 2011; acquired by Microsoft in 2014

Many types of game play: survival, creative, adventure, single-player, multi-player, etc

WHAT IS MINECRAFT?

Minecraft world consists of

> Blocks → the landscape and geographic features

> Items → plants, tools, and other game objects

> Entities → players and other creatures

LAB: LET'S MOD MINECRAFT!

"Modding" is slang for modifying an existing game.

In this project, we will mod a stand-alone Minecraft client using Forge.

A "client" is one of many programs that talk to a "server". While you can also mod Minecraft servers (to host custom games, etc), we will only be modifying a client that runs alone.

FIRST TASK:
INSTALL MINECRAFT FORGE

SECOND TASK:
PLAY MINECRAFT

Main Menu

Single Player → Create your own world, play alone

Multiplayer → Play with others on a server. Not used in this class

Movement

w →   move forward (double-tap to sprint)

a →   move left

s →   move backwards

d →   move right

<space> →   jump (if flying, move upwards). You can hold down

                         <space> while moving to climb up hills.

<left shift> → sneak

<space><space> → fly

<shift> →   move downwards when flying

PLAY MINECRAFT

Inventory

Composed of all items you are currently carrying

Active items are in your "hotbar" at the bottom

The hotbar has slots numbered 1 to 9. To select an item in your "hotbar", use the mouse wheel to scroll and select which slot (or use the numbers 1 through 9).

e → Open your inventory. You'll see creative inventory categories above and below the inventory popup. Move items/blocks to your slots.

<esc> → close inventory

Wielding Items

Choose slot '1' to '9'

q → throw item

<right click> → apply item

Wielding Blocks

Choose slot '1' to '9'

<left click> → break block / attack

<right click> → place block

WHAT IS COMPUTER SCIENCE ALL ABOUT?

1. Go to School
2. Play Minecraft