

Amethyst Algorithms Project 1: IDE Setup

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About the author

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bio -> meltingscales.github.io

code -> github.com/meltingscales/amethyst-algorithms

This presentation was made using Markdown and Pandoc with the “beamer” template.

What is this?

Amethyst Algorithms is a course aimed at smart highschoolers or average college students, meant to teach you how to do software programming using Minecraft and NeoForged.

If you're age 15+, like Minecraft, and want to learn programming, you should give this course a try.

Tooling setup

You'll need to install a few tools first!

If using Windows, I highly recommend using Chocolatey `choco` to install packages. It is a fantastic package manager similar to `apt` or `yum`.

- `choco`

If using Linux, this will depend. I recommend Ubuntu for beginners.

- 1 Install IntelliJ IDEA
 - Windows JetBrains Toolbox
 - Linux/OSX JetBrains Toolbox
- 2 Install Git
- 3 Install Java Development Kit 21
 - Windows Java 21
 - Linux/OSX Java 21

Git setup

I'll assume you've installed Git. You just need to run the below: 1. Open a terminal and `cd` to the place you'd like the repository to live. 2. Run `git clone`
`https://github.com/meltingscales/amethyst-algorithms-minecraft-intro-to-cs-course`

Java setup

Nothing to be done! Just install JDK 21 (not JRE 21).

IDE setup

Next, we're going to set up your IDE.

(Live demo: Henry shows you how to set it up and import)

Basics of Java code: Syntax 1

Let's go to

`/src/main/java/io/meltingscales/amethystalgorithms/DirtDropsGold.java` in our editor!

Basics of Java code: Variables

Basics of Java code: Mod Annotations

Basics of Java code: Syntax