

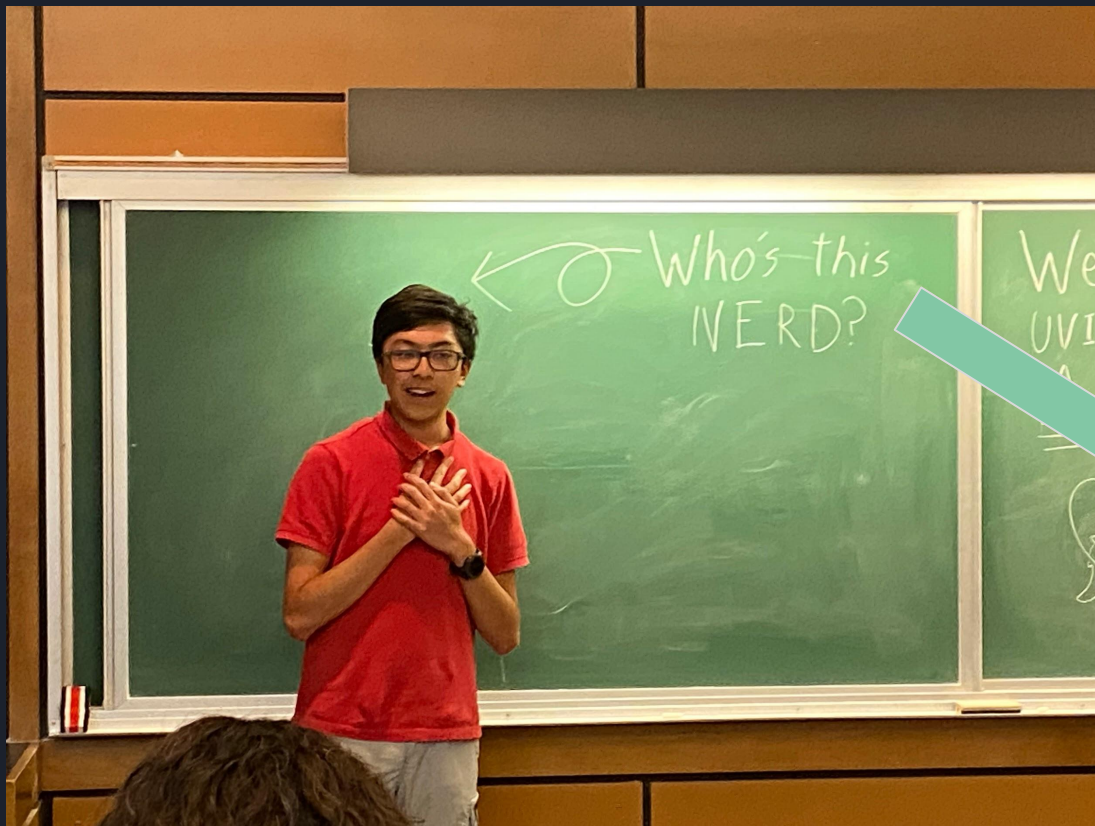


Introductory Java and FTC Programming Workshop

Week 0 - Introduction (Oct. 17)

Hanson Chan

Who am I?



What is Programming?

programming /prō'grām'ing, -grə-mīng/

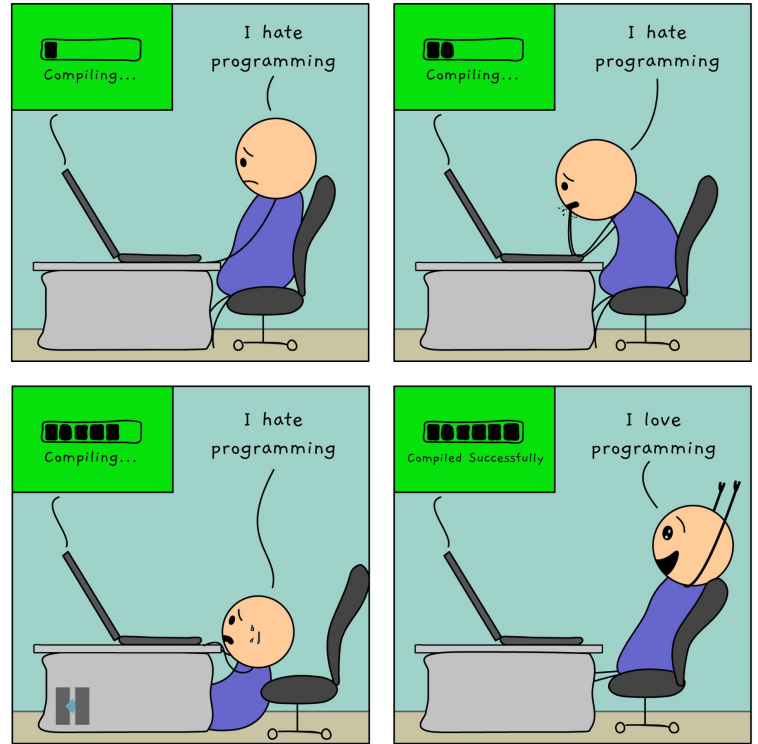
noun

1. The designing, scheduling, or planning of a program, as in broadcasting.
2. Broadcast programs considered as a group.
"the network's Thursday night programming."
3. The writing of a computer program.
4. The designing, scheduling or planning of a radio or television program / programme.
5. Brain-washing.
6. The act of writing a computer program.
7. The software that controls a machine, or the logic or expressed in such software; operating instructions.

verb

1. Present participle of program.

The American Heritage® Dictionary of the English Language, 5th Edition • More at [Wordnik](https://www.oxforddictionaries.com/define/programming)



f /techindustan

🐦 /techindustan

📷 /techindustan



Robot Game!

- In Class activity!

Random text go brrrrrrr

But now do it with...

PSEUDOCODE



What is Java

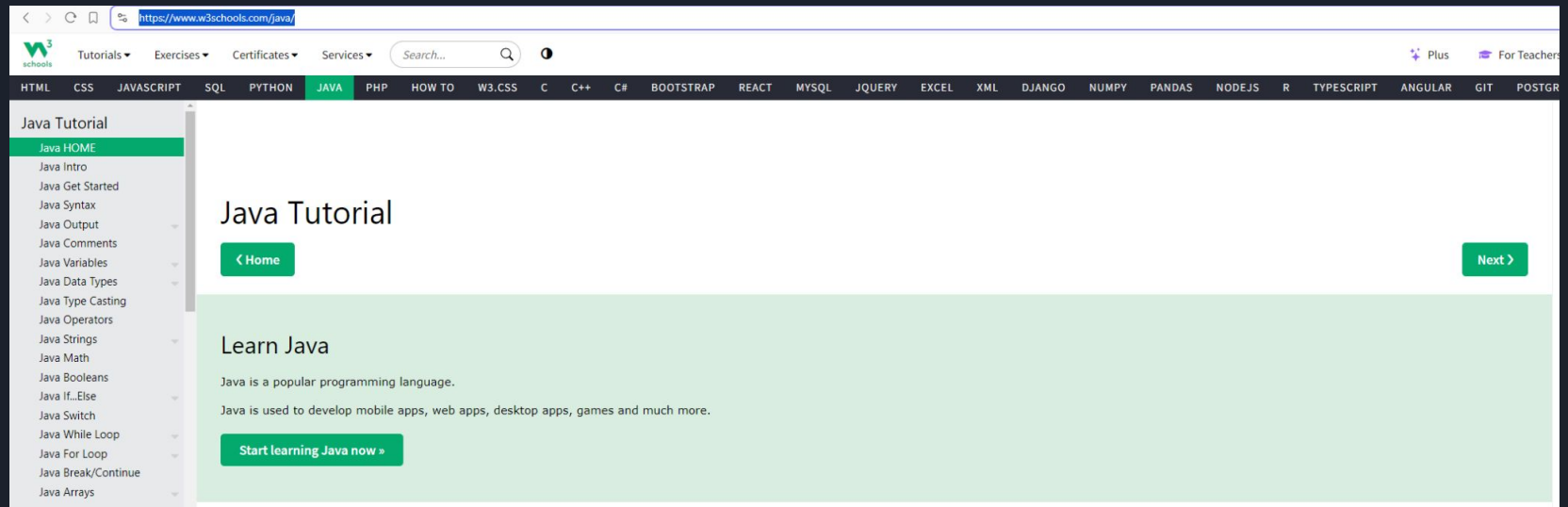
100 *SECONDS OF*



Online Resource

W3 Schools

<https://www.w3schools.com/java/>



The screenshot shows the W3 Schools website with the URL <https://www.w3schools.com/java/> in the browser's address bar. The website has a dark blue header with the W3 Schools logo and a navigation menu. The 'JAVA' tab is selected in the top navigation bar. On the left, a sidebar lists various Java topics, with 'Java HOME' highlighted. The main content area features the title 'Java Tutorial' with a '< Home' button. Below this, a green banner contains the text 'Learn Java' and 'Java is a popular programming language. Java is used to develop mobile apps, web apps, desktop apps, games and much more.' A green button labeled 'Start learning Java now »' is positioned at the bottom of the banner. A 'Next >' button is located on the right side of the main content area.

W3 schools

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Java HOME

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Java Get Started

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Java Type Casting

Java Operators

Java Strings

Java Math

Java Booleans

Java If...Else

Java Switch

Java While Loop

Java For Loop

Java Break/Continue

Java Arrays

Java Tutorial

< Home

Next >

Learn Java

Java is a popular programming language.

Java is used to develop mobile apps, web apps, desktop apps, games and much more.

Start learning Java now »



Java Variables

`String` - stores text, such as "Hello". String values are surrounded by double quotes

`int` - stores integers (whole numbers), without decimals, such as 123 or -123

`float` - stores floating point numbers, with decimals, such as 19.99 or -19.99

`char` - stores single characters, such as 'a' or 'B'. Char values are surrounded by single quotes

`boolean` - stores values with two states: true or false

IDE - Integrated Development Environments)

- What is an IDE?
- Why is it beneficial?
- Which should you use?

