Primitive Data Types



COMERPLAIN



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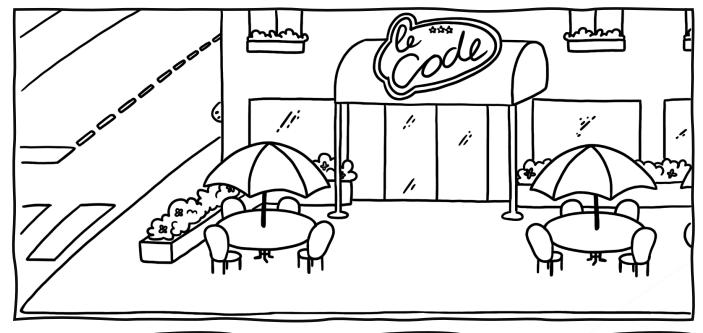
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Illustrations:

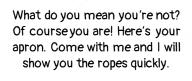
Magdalena Boucher & Alena Ertl

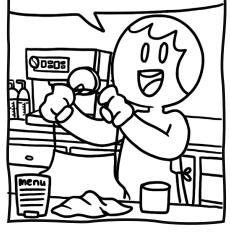












Your job is to execute orders from the program, uh, I mean the kitchen...

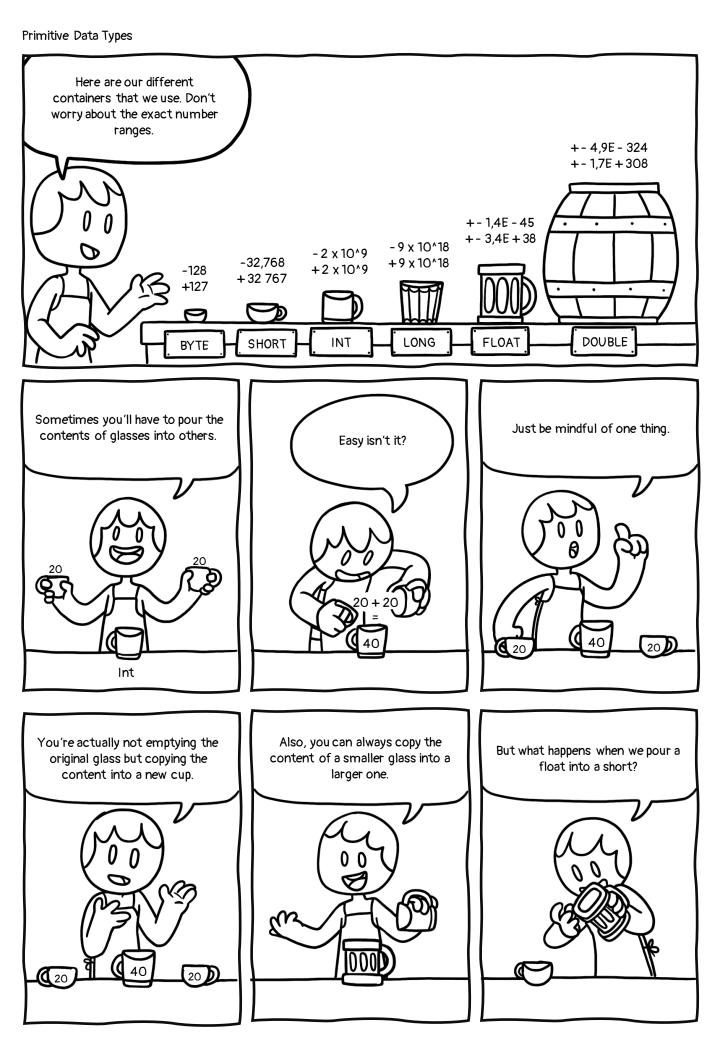


And to put values ...uhm coffee...

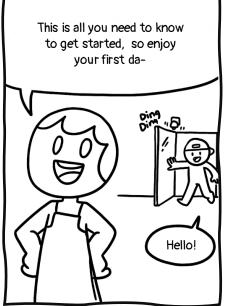


Into containers!



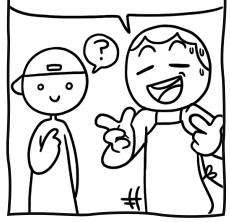






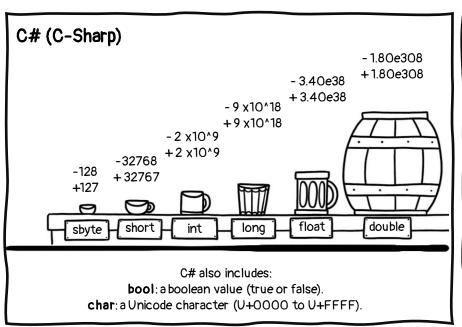


You know what? I'm quite busy, how about you explain them what to do!





How would you explain the concept of primitive data types to the new employee? Use this space to make notes and drawings.



Primitive types are predefined by the programming language itself. Here are the equivalent types and their ranges for other languages.



Javascript

2 1.3 Number: Represents all numeric values*

Boolean: Represents a boolean value (true or false)

String: Represents a sequence of characters

? Undefined: Represents an uninitialized or undefined value

Null: Represents an intentional absence of any object value

*The type "number" includes integers and floating-point numbers. JavaScript doesn't have specific types like byte, short, or long. Be aware that primitive types provide the programmer with essential data types for storing and manipulating data efficiently, often optimized for performance and memory usage.



Python

int: Represents arbitrary precision signed integers.

1.3 float: Represents floating-point numbers*

bool: Represents a boolean value (true or false).

str: Represents a sequence of Unicode characters.

NoneType: Represents the absence of a value, often used as a placeholder or default return value.

*The range of float is approximately 1.7e-308 to 1.7e+308

While many languages share similar primitive types such as integers, boolean values, and characters, the specific names, ranges, and behaviors of these types can vary between languages.



Mughal, K. A., & Rasmussen, R. W. (2003). A programmer's guide to Java certification: a comprehensive primer. Addison-Wesley Professional.

Knudsen, J., & Niemeyer, P. (2005). Learning Java. O'Reilly.

Sources:

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