

Advantages of data types

In programming, there are several different types of data, which are for storing specific things.

Data type	What it stores	Uses	Example of assignment	Space occupied (bytes)
String	A sequence of characters	Displaying messages and output	str text = "hello world";	10 + 1 per character
Char	A single character	Checking individual characters in a string	char letter = 'a';	1
Int	A whole/natural number	Mathematical operations and counting	Int num1 = 65;	2 for short, 4 for long
Float	A decimal number	Mathematical operations and counting with decimals	float count = 4.6;	Up to 8
Boolean	True/false value	For variables that will only ever be two values, and in loops	bool answer = True;	2
Array	A list (array) of any of the previously mentioned data types	Storing lots of the same type of variable. Can be iterated over.	Int array nums = [1,4,7];	Bytes per data type * length of array