

Types

August 25, 2015

Type - Why?

Remember that there 30 students for me.
I will refer to that memory by the label (name)
“nrOfStudents”

Type - Why?

Course name is "TIG015"

I will refer to that memory by the label (name)

"courseName"

Type

nrOfStudents has the value 30
courseName has the value "TIG015"

Type

Increase the value in nrOfStudents with 1

Type

nrOfStudents now has the value???

Type

nrOfStudents now has the value 31

Type

Increase the value in courseName with 1
... simply doesn't make sense

Type

What?

Type

Just like saying increase your name with 1
.. increase the tree with one

Type

Just like saying increase your name with 1
.. increase the tree with one

Type

“... a data type or simply type is a classification identifying one of various types of data, such as real, integer or Boolean, that determines the possible values for that type; the operations that can be done on values of that type; the meaning of the data; and the way values of that type can be stored.” https://en.wikipedia.org/wiki/Data_type

Type - primitive type

“a basic type is a data type provided by a programming language as a basic building block. Most languages allow more complicated composite types to be recursively constructed starting from basic types.

a built-in type is a data type for which the programming language provides built-in support.”

https://en.wikipedia.org/wiki/Data_type

Primitive types

“a basic type is a data type [1] provided by a programming language as a basic building block. Most languages allow more complicated composite types to be recursively constructed starting from basic types.

a built-in type is a data type for which the programming language provides built-in support.”

https://en.wikipedia.org/wiki/Primitive_data_type

Primitive types

integer, float, boolean, reference

Integer

-23 -337 0 3 12333

float

-0.004 0.0 2.71828 3.1415

boolean

true false

reference

“a value that enables a program to indirectly access a particular datum”

[https://en.wikipedia.org/wiki/Reference_\(computer_science\)](https://en.wikipedia.org/wiki/Reference_(computer_science))