



Python Variables

Python Datatypes

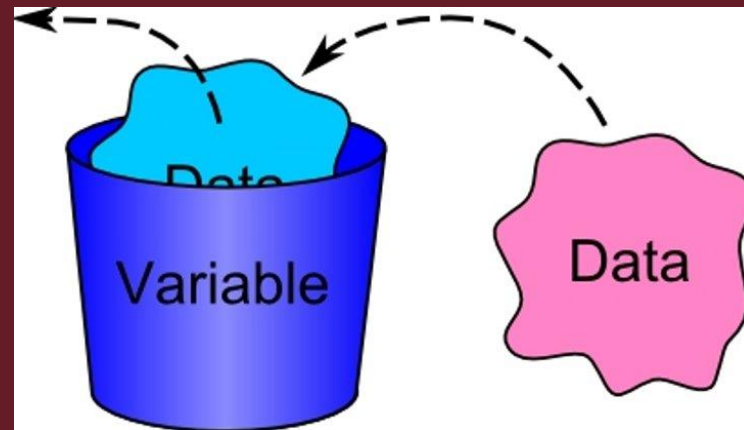
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Python Variables

- What is a variable
- Variable naming convention
- Single variable assignment
- Multiple variable assignment
- Local and Global variables
- Global Keyword
- Conversion function

What is a variable

- Reserved location in memory to store data
- Python takes care of creating memory when variable is created



Variable naming convention

- Variable name cannot start with number.
- Variable name can start with letter or underscore character
 - A-Z, a-z, _ but cannot start with number or other characters
- Variable name can contain alphanumeric and underscore
 - A-Z, a-z, 0-9, _
- Variable are case sensitive
 - MyNumer = 10 is not same as mynumber = 30

Single variable assignment & Multiple variable assignment

- `my_first_var=12`
- `a=b=c=12`
- `Var1,var2,var3='we','have','three variables'`

Python Local variable vs global variable

- Local variable are declared inside the function cannot be used outside of function.
- Global variables are declared outside the function, we can use the global variable even inside the function.

Global keyword

- All function variables are local by default
- We don't have to use global keyword when variable is out the functions
- We can only read the global variable inside the function but cannot change the value, to do that we have to define global keyword to variable.

Type conversion functions

- Convert one data type to another data type
- Types
 - Implicit type conversion
 - Interpreter automatically converts without user involvement
 - Explicit type conversion
 - User/developer converts from one datatype to other using default python functions

references

- <https://kevinavignon.com/2014/11/18/programming-basics-variables/>