





id

id















41

#  $\Rightarrow$  28 (bytes)

id(41) # ≥ 4361704848 (e.g.)

# Objects have Identity

The **id** function returns an object's "identity"

```
id(41)    # => 4361704848 (e.g.)
```

"Identity" is unique and fixed during an object's lifetime

Objects are tagged with their type at runtime

Objects contain pointers to their data blob

This overhead means even small things take up a lot of space!

```
(41).__sizeof__()  
# => 28 (bytes)
```

In CPython (reference implementation in C),  
**id** gives the PyObject's memory address

# An Analogy