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Int, Double & Tuples

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Integers → [whole numbers without fraction part]

Eg → -23, 42, 0

- **Signed** (+, 0, −)
- **Unsigned** (+, 0)

Both have same size as of platform.

Various platforms
- → 8 bit ($-2^8 \to 2^8$)
- → 16 bit ($-2^{16} \to 2^{16}$)
- → 32 bit
- → 64 bit

let a = 25

let b = UInt8.min

Floating Point Numbers

Numbers with fractional part.

Eg → 3.14, 0.1 & -273.15

Types

- Float [64-bit]
- Double [32-bit]

Default

Eg: let decimalNumber = 17

This will be double by default

Numeric literals

- Decimal Number (No prefix) — Eg: let decimalNumber = 17
- Binary Number (0b prefix) — Eg: let binaryNo = 0b1001
  ⇒ $2^4 + 2^0 = 17$
- Octal Number (0o prefix) — Eg: let OctalNo = 0o21
  ⇒ $2 \times 8^1 + 1 \times 8^0 = 17$
- Hexadecimal Number (0x prefix) — Eg: let HexaNo = 0x11
  ⇒ $1 \times 16^1 + 1 \times 16^0 = 17$

Tuples (group of multiple values of any type)

Eg:- let error = (404, "not found")

type (Int, String)

Int

String

Any type

(Int, Int, Int) , (String, Double, Int, String) etc.

* Accessing the element

↳ (code)