

Module Summary

Data Types

- **Numbers** (Integers & Floats)
- **Strings**
- **Booleans**

Lists

- **Create Lists**
- **Add Items** via `append()`
- Access Items **via Index** (which **starts at 0!**)
- Other List Operations (`pop()`, ...)

Operators

- **Base Arithmetic:** `+`, `-`, `*`, `/`
- **Modulus:** `%` (`15 % 10 = 5`)
- **Floor Division:** `//` (`15 // 10 = 1`)
- **Power:** `**` (`2 ** 3 = 8`)
- **Strings** can be **added** and **multiplied** (with Integers)

Scope

- **Global:** Variables defined outside of Functions
- **Local:** Variables defined inside of Functions

Functions

- Use **Indentation** and `:` to define Code Block
- Can use **Arguments**
- Can **return** Values
- Can use **Default Arguments**
- **Keyword Arguments** allow you to re-order or skip arguments

Blockchain Status

- | | | | |
|-------------------------------------|-------------------------------|---|----------------------|
| <input checked="" type="checkbox"/> | Chain of Data | → | Basic Implementation |
| <input checked="" type="checkbox"/> | Mine new Blocks | → | Basic Implementation |
| <input checked="" type="checkbox"/> | Block Hashing | → | Basic Implementation |
| <input type="checkbox"/> | Analyze & Verify Chain | | |
| <input type="checkbox"/> | Transactions | | |
| <input type="checkbox"/> | Store Chain to Disk | | |
| <input type="checkbox"/> | Node Network | | |
| <input type="checkbox"/> | Share Data, Resolve Conflicts | | |
| <input type="checkbox"/> | Wallets | | |