

Forritunarmálið Python

Dagur 2

Functions

- `global`
- `locals(), globals()`

Listar

- Builtin functions
- `in, len, max, min, sum`
- Slicing
- List comprehension
 - Nested
 - With condition
- `<, >` (lexicographical order)
- `(del)`
- `reversed, sorted`

Tuples

- Purpose
- Compare to lists
- Hashing
- Multiple return values (`divmod`)
- Tuple assignment

Builtin functions

- zip
- enumerate

Sequence unpacking

- Unpack sequence
- Unpack into sequence

Set

- *Hash* set
- Builtin functions
- `|, &, ^, <, <=, >, >=, -`
- `in` compared with list
- What can be in a set?
- `hash`
- `frozenset`
- Set comprehension
- Iteration

Strings

- Builtin functions
- `in` (substring check)
- Modification
 - `center, ljust, rjust`
 - `capitalize, title, swapcase, upper, lower`
- Checks
 - `endswith, isalnum, isdigit, is...`
- Very important
 - `split, splitlines, join, strip`
- Other
 - `find, index`

String formatting

- Old way
- *New way*
- Actual new way (format strings)

Dictionaries

- *Hash* map
- "Everything's a dictionary"
- Iteration
- Constructor
- Dict comprehension

Importing modules

- `import mod (as alias)`
- `from mod import fun/cls (as alias)`

Extra numeric types

- fractions
- decimal

collections

- defaultdict
- Counter