

CSCI 233: Python Notes 1

data

- identifier
- variable
- assignment
- literal
- type
 - simple/scalar
 - * integer `int`
 - * floating-point `float`
 - * Boolean `bool`
 - composite
 - * string `str`
 - *escape*
 - * list
 - * tuple
 - operations:
 - * *subscript*
 - * *slice*
 - * `len()`

expressions

- evaluation
- operators (decreasing precedence)
 - arithmetic
 - **
 - (*unary*)
 - * / // %
 - + -
 - relational
 - == != > >= < <=
 - logical (Boolean)
 - not
 - and
 - or
- type promotion/conversion/coercion
- lexicographic order
- function call (invocation)

statements

- assignment
- `print`
- `pass`
- *block*
- conditional
 - `if boolean-expression :`
 - block*
 - `elif boolean-expression :`
 - block*
 - `else:`
 - block*
- while loop
 - `while boolean-expression :`
 - block*
- `break`

functions

- definition
 - `def name(formal-parameters):`
 - block*
- `return`
- *scope*
- *local identifier (variable)*
- function definition vs. invocation, activation
- formal parameters, actual parameters
- doc string

misc.

- immutable vs. mutable types
- equality (`==`) vs. identity (`is`)