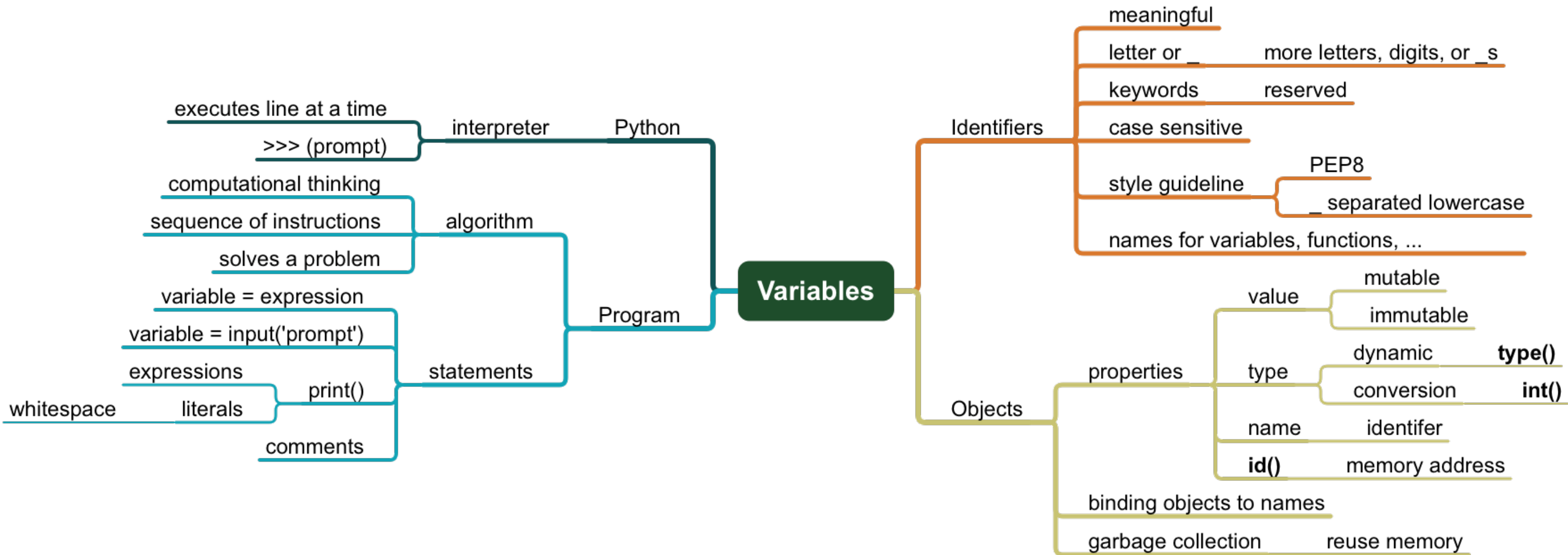
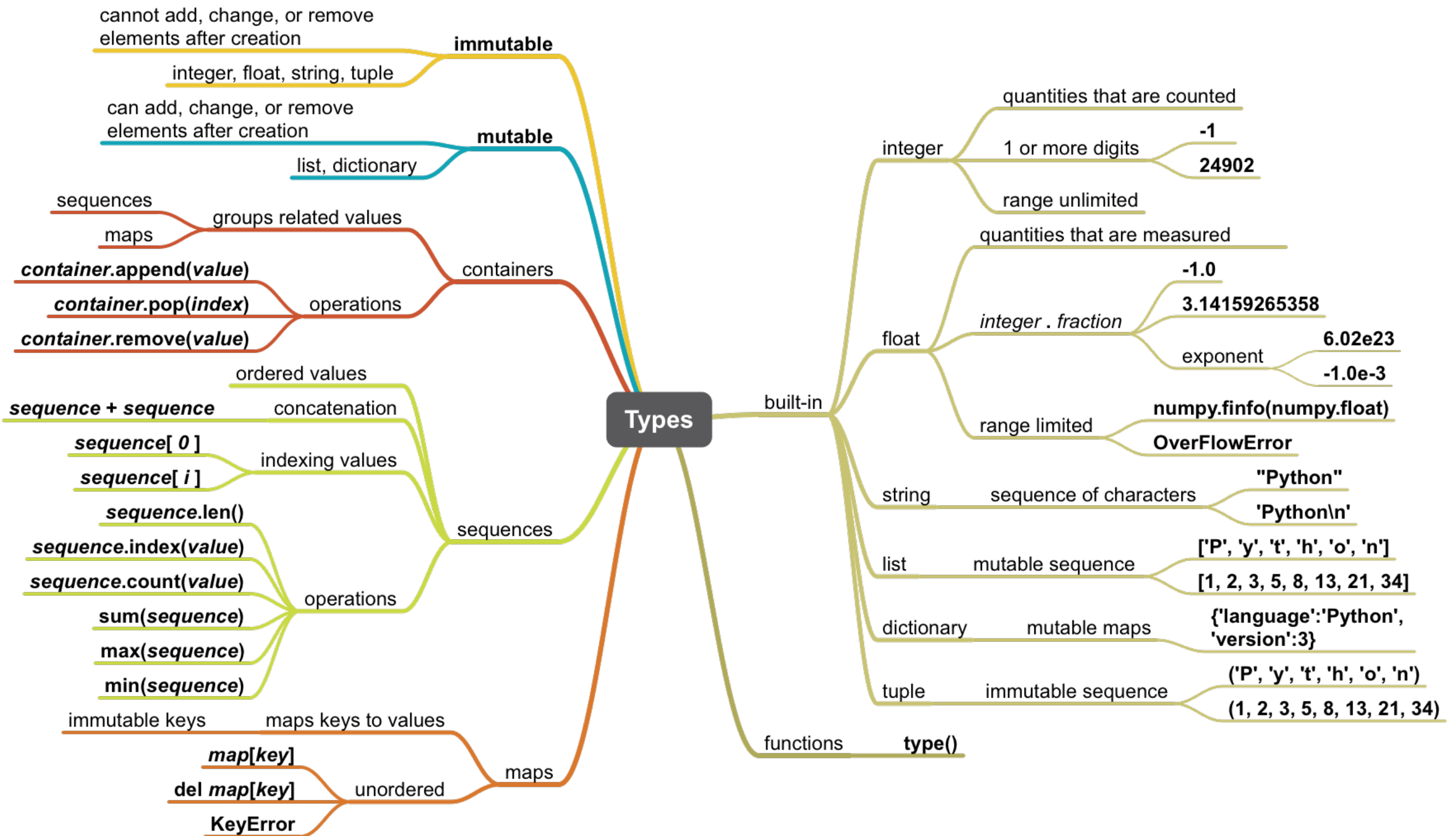


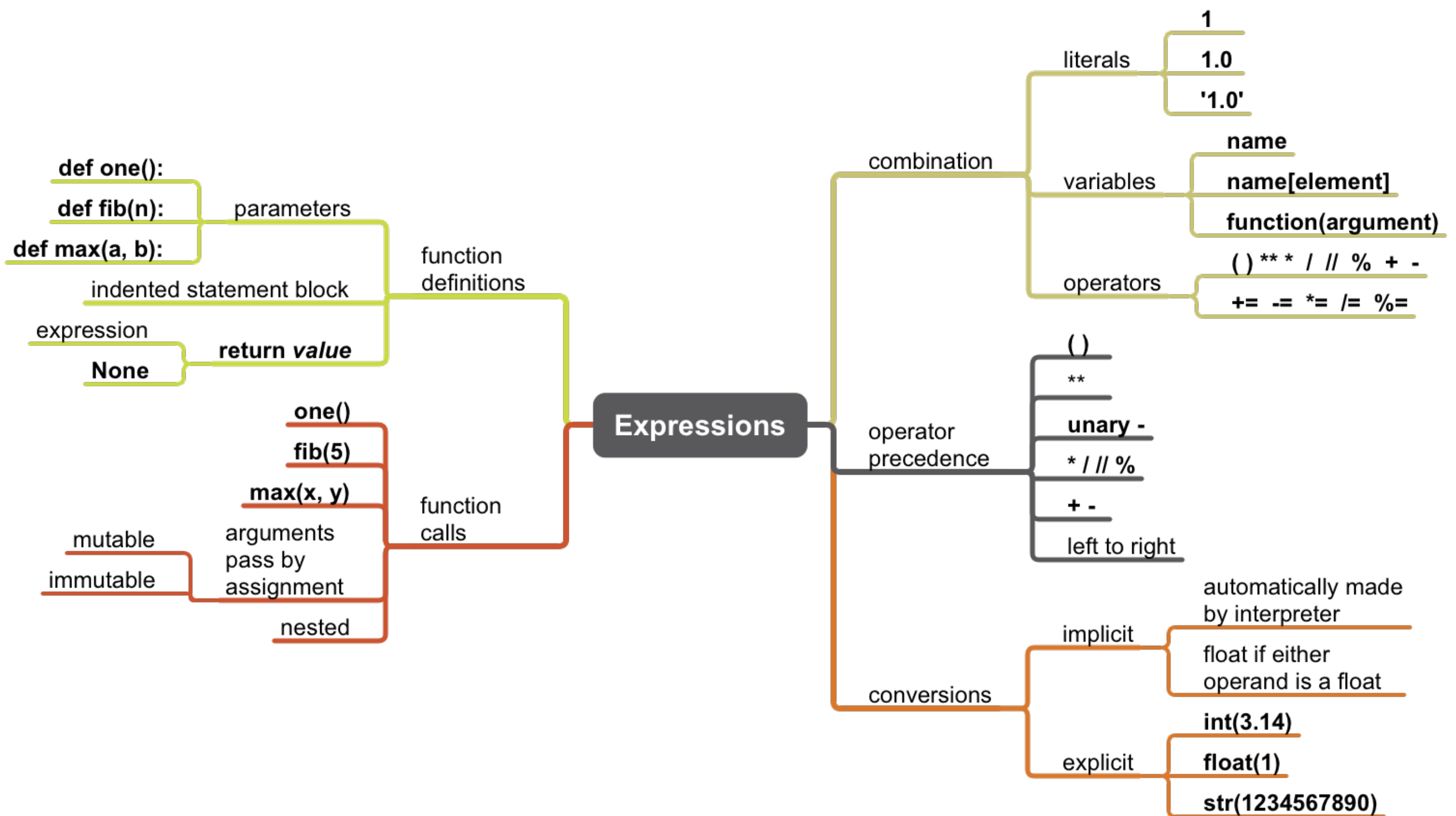
CS152 Introduction to Programming (CS0) with Python

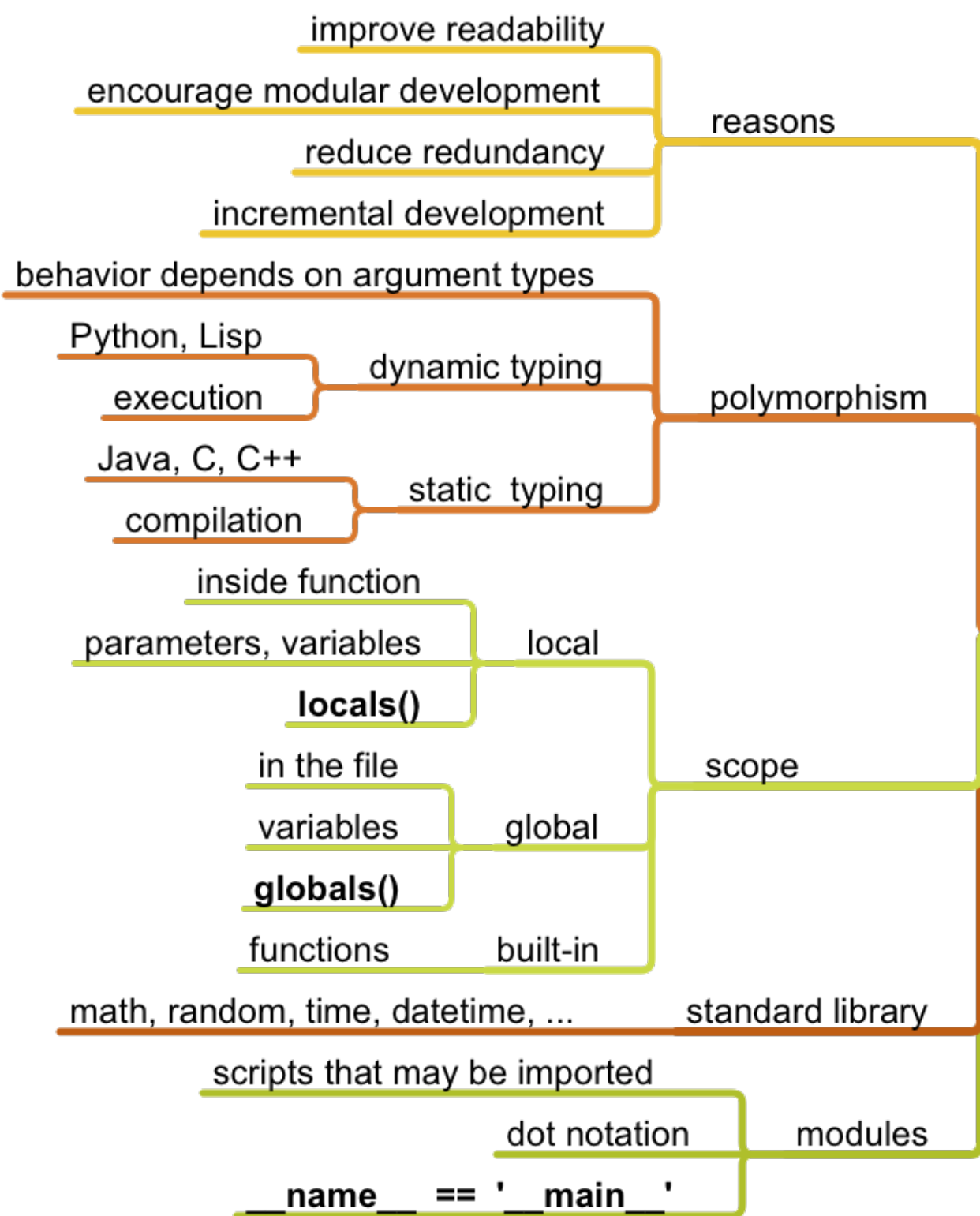
Lectures / Study Guide

<http://www.cs.colostate.edu/~cs152>

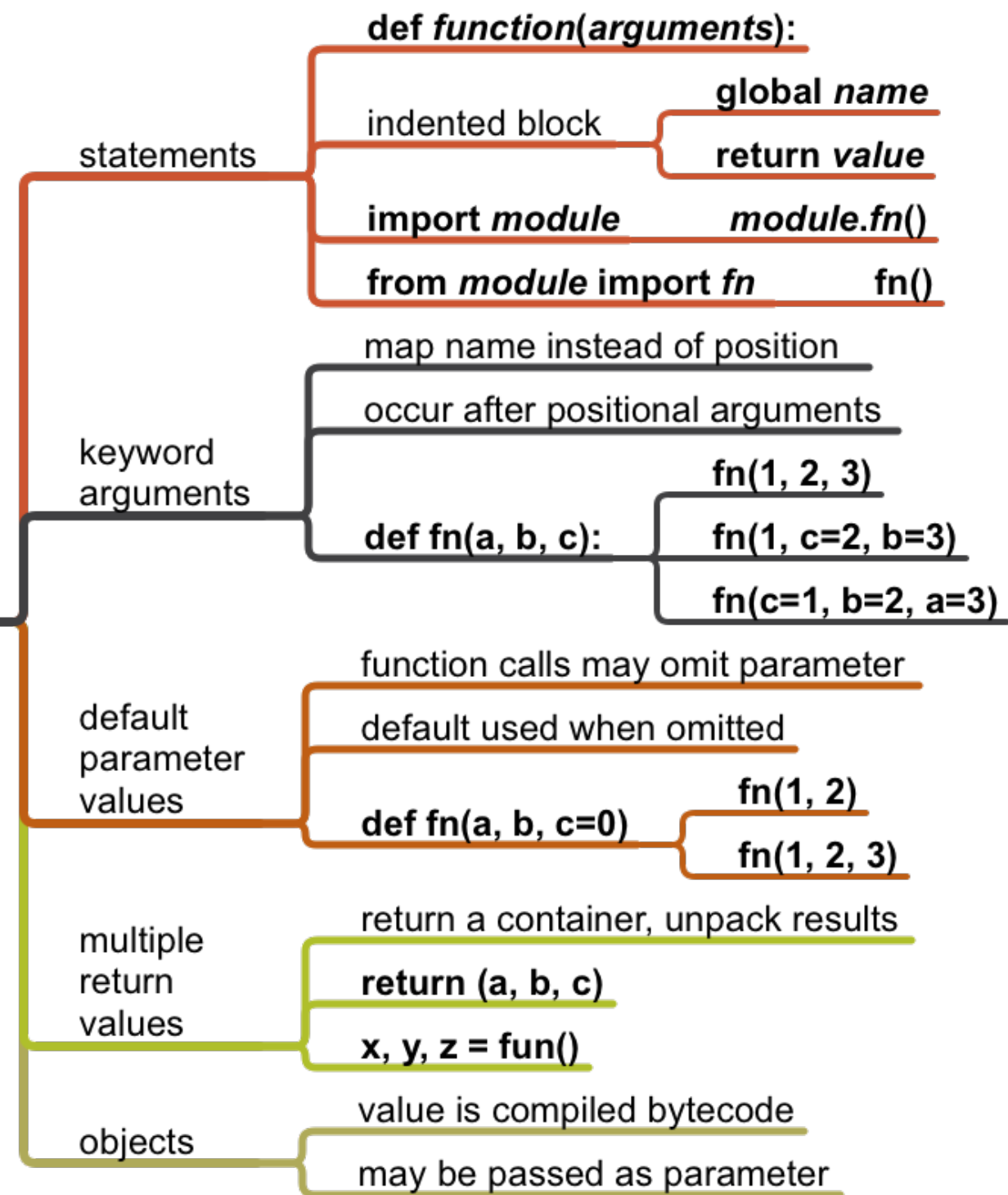








Functions



Decisions

syntax

statements

if condition:

elif condition:

else:

indentation

code blocks

nesting

expressions

value1 if condition else value2

condition precedence

values and functions

v, v[i], v[i:j:k], v.a, f(a)

arithmetic operators

() ** * / // % + -

comparisons (same)

==, !=, >, <, >=, <=

chained

in, not in

is, is not

booleans (ordered)

not

and

or

Repetition - while

loops

iterates same code over and over again

continuation / termination condition

statements

while expression:

unknown number of iterations

count up

count down

update every iteration

step value

$1 \leq N$ versus $0 < N$

infinite loop

criteria never met

indented statement block

nested loops

Repetition - for

