Recursion

- Base case: the function returns a value without making a recursive call
- Change of state: the argument passed to the recursive call must move towards the base case.
- Self-call: the function must call itself

visualization
- stack frames
- fractals

Operator

__add__: +

__sub__: −

__eq__: =

mutability

copying
- Shallow copy
- deep copy

__init__(self,...): initializer

__str__(self): returns a string representation

self parameter

Classes and Objects

- class: a blueprint for creating objects
- object: a specific realization of a class
- attributes: variables that belong to an object
- methods: functions that belong to a class

Tkinter (GUI)

widget config
- frame
- entry
- label
- button
- message boxes

widgets
- create the object
- specify attributes
- place it
  - window
  - frame
  - widget
- layout
- callback

windows & dialogs — toplevel
|
file dialogs