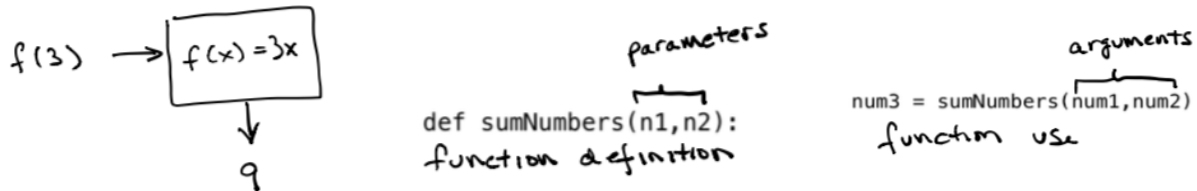


- Readings: *Liang* section 6.1 – 6.5 (skip 6.3.1 *Call Stacks*)

A function is like a “Black Box”. You can put things in and get things back out, but you don’t necessarily have to know anything about the internals to use it.



A few notes about functions:

- Scope** can get tricky. Scope means determining which variables apply to which section of code. To make things simple (for now) treat scope this way: the box is closed. Only use variables in the function in which they were declared or passed as arguments. *The only way in is through argument passing, the only way out is with return.*
- For functions with default parameters, the default parameters must come after all non-default parameters.
- Like everything else in python, indentation is critical inside of functions.
- Functions reduce duplication of code.
- Functions allow us to decompose complex problems into simpler pieces.
- Functions improve the clarity of code.
- Functions facilitate code reuse.