racket

INSTALLATION

https://racket-lang.org/download

- Download from the above link

- Dr Racket
  - Comes included in installation
  - An IDE for Racket
  - Too slow and heavy for my tastes

- Command line
  - My prefrence
  - **racket #file#**
    - Command for compiling and interpeting .rkt files
    - use command without a file name to run the interpreter (like python)
  - **raco**
    - racket command line package installer

ABOUT RACKET

- BASED OFF LISP AND SCHEME

- FOR THIS CLASS, PURELY FUNCTIONAL
  - ↳ No VARIABLES
  - ↳ ONLY FUNCTIONS

BASIC NOTATION

$$(\boxed{function} \quad \underline{param0 \quad param1 \quad etc.})$$

- TWO PARTS
  - ↳ FUNCTION
    - ↳ THE FUNCTION IS ANY KEYWORD THAT TAKES PARAMETERS AND DOES SOMETHING WITH THEM
  - ↳ PARAMETERS
    - ↳ WHAT THE FUNCTION OPERATES ON
    - ↳ THERE CAN BE MANY, THERE CAN BE FEW
- SURROUNDED BY PARENS ()
- PARAMETERS AND FUNCTION SEPARATED BY SPACES
- CAN BE NESTED
  - ↳ (+ (+ 2 1) 3)
    - ↳ adds the addition of 1+2 to 3