

# **MEETING IV**

THE START FUNCTION & TOP-DOWN DESIGN  
FUNCTION DECOMPOSITION



# FUNCTION REVIEW & START

- for those that are new, here are all the functions that we've gone over for Karel
  - `move();`
  - `turnLeft();`
  - `putBall();`
  - `takeBall();`
- CodeHS also wants us to write our functions starting with a start function like the following
  - `function start(){}`
  - practice once [here](#)
  - I give up on `turnRight();`



# TOP-DOWN DESIGN

- let's bake a cake, using the whiteboard







# FUNCTION DECOMPOSITION

- let's act like we're programming a robot to bake this cake for us
- code example of top-down design with function decomp.
- now let's apply some of these principles with the two towers
- at least two different functions in your start
- at least one repetition of a single function



# BEYOND PROGRAMMING CLUB

- check out that AR-Drone API – write a program that we can use for *Club Faire*
- work on CodeHS at home: you have *premium* accounts!
- check out resources featured at bento.io
- *female members*, check out GWC, just a 15 minute walk away from campus – <http://j.mp/gwcclub>