

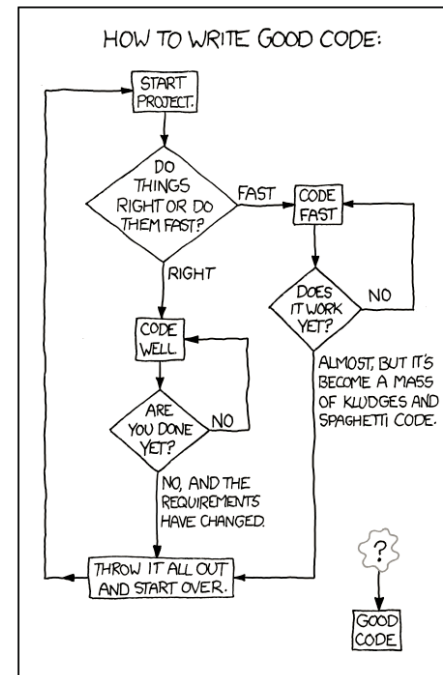
# CompSci 101

## Introduction to Computer Science

September 16, 2014

Prof. Rodger

xkcd



## Announcements

- Reading for next time on the calendar page
  - RQ 6
- APT-2 due today
  - Assignment 3 due Thursday
  - APT-3 out today, due in a week
- Finish lecture notes from last time

## Online forms for APTS

- APT Emphasize:  
[www.bit.ly/101fall14-0916-01](http://www.bit.ly/101fall14-0916-01)
- APT Pancakes:  
[www.bit.ly/101fall14-0916-02](http://www.bit.ly/101fall14-0916-02)

## Compare Ifs

```
best = "UNC Blue Devils"
print best
if best[:3] == "UNC":
    best = "Duke" + best[3:]
print best

print "num 1 test"
num = int(raw_input("Enter Num: "))
if num > 15:
    print "biggest"
elif num > 10:
    print "bigger"
elif num < 5:
    print "smaller"
else:
    print "middle"

print "num 2 test"
num = int(raw_input("Enter Num: "))
if num > 15:
    print "biggest"
if num > 10:
    print "bigger"
if num < 5:
    print "smaller"
else:
    print "middle"
```

## Dissect the for loop

for VARIABLE in STRUCTURE:  
    BODY

Repeat the BODY with the VARIABLE equal to each item in structure

## What can the structure be? Variable be?

- STRUCTURE → Variable
- String → character
- List → item in list
- There are other types of structures we will see

## Examples

```
answer = 0
for w in range(5,0,-1):
    answer = answer * 10 + w
```

```
answer = ""
word = "NCStateFair"
for some in word:
    answer = answer + " " + some
```