

Code for Teachers

A practical approach to programming

Chapter 2-3: The `for` Loop

Basic Concepts

- `for` loops repeat over a range
 - Either over an *iterable* data type (stay tuned)
 - Or over a `range` object
- Differences from `while`
 - Iterator variable is built-in
 - Guaranteed to stop
 - Requires the programmer to know how many times she wants to loop

Syntax Breakdown

```
for i in range(10):
```

```
    print(i)
```

Range
Generator

Iterator

Loop
Declaration

> 1

2

3

4

5

6

7

8

9

Code Example: FizzBuzz

- Popular math game
- Also, a popular technical interview question for developers
- Rules:
 - Count from 1...n
 - If n is divisible by 3, say "Fizz!"
 - If n is divisible by 5, say "Buzz!"
 - If n is divisible by 3 AND 5, say "FizzBuzz!"
 - 1,2,F,4,B,F,7,8,F,B,11,F,13,14,FB



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