

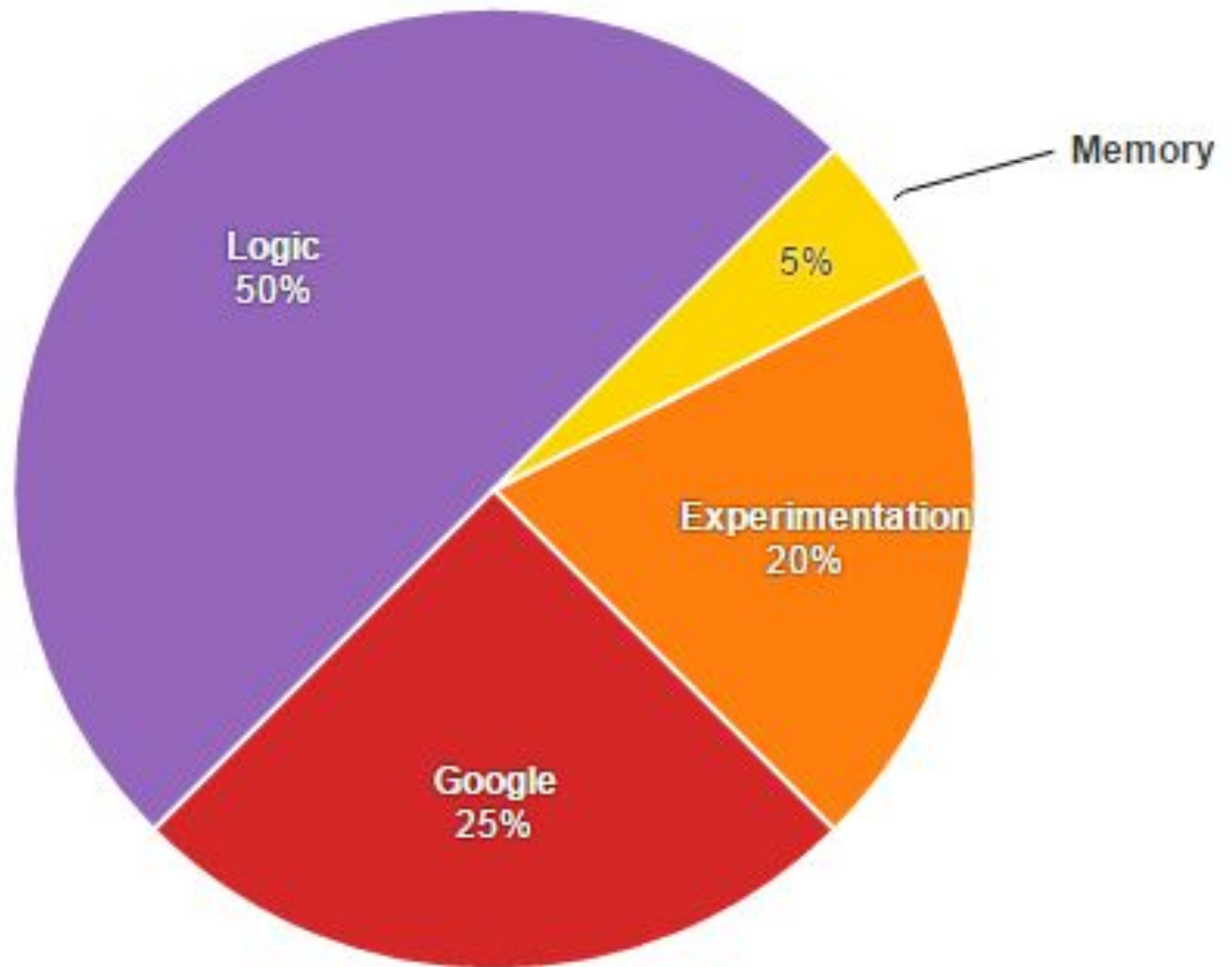
Coding for the rest of us

Paul Bradshaw

In 3 bullets:

1. Programming isn't learned like English
2. Learn the jargon.
3. Reuse and adapt code by others

How programming is done





Emma Wedekind 🐞

@EmmaWedekind

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The hardest thing about coding is knowing what to Google 🧑💻

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1.5K



8.3K





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Pete Sherlock

@petesherlock79

Following



Replying to [@paulbradshaw](#)

5% memory, 15% googling, 80% ask Paul



Jargon

An introduction



Variables

`variablename = expression`

Python

`variablename <- expression`

var variablename = expression

JavaScript



Data types

String = “blah”

Integer = 40

Float = 3.5

List = [“blah”, 40, 3.5]

Dictionary =

{“name”: “Paul”, “age”: 22}

Boolean = True

Different data types cannot be combined.

Actions work differently with different data types, e.g. `len()`

`len("paul b")`
= 6 (characters)

`len(mylist)`
= number of items

`len(10)`
= TypeError message

126 Pancakes

PANCAKES

PREP: 10 MINUTES COOK: 4 MINUTES PER PANCAKE

Fast

Drizzle your favorite syrup, or spoon fruit and whipped cream, over these delicate pancakes.

- 1 cup all-purpose flour
- 1 tablespoon sugar
- 2 teaspoons baking powder
- $\frac{1}{4}$ teaspoon salt
- 1 beaten egg
- 1 cup milk
- 2 tablespoons cooking oil

1. In a medium mixing bowl stir together the flour, sugar, baking powder, and salt. Make a well in the

Functions/methods


```
def functionname(parameter):  
    newvariable = parameter * 10  
    return(newvariable)
```

Python

```
var functionname = function  
  (parameters) {statements;}
```

JavaScript

```
functionname <- function  
(parameters) {statements;}
```

example:

```
def addtwonums(cat, dog):  
    total = cat+dog  
    return(total)
```

being used:

```
newthing = addtwonums(3,10)
```



**Arguments/
parameters**

example:

Parameters (general)

```
def addtwonums(one, two):  
    total = one+two  
    return(total)
```

being used:

Arguments (specific)

```
newthing = addtwonums(3, 10)
```




Libraries


```
!pip install libraryname  
import libraryname
```

Python

```
install.packages('libraryname')  
library(libraryname)
```

R

```
<script src="displaydate.js"  
  type="text/javascript">  
  </script>
```

JavaScript



**Lists/arrays,
dictionaries/dicts**

```
mylist = ["Birmingham",  
"Manchester"]  
print mylist[0]
```

```
mydata = {"name": "Paul", "age":  
22}
```

```
print mydata['name']
```

```
mydata['home'] = 'Barcelona'
```

```
print mydata
```




Loops


```
for i in mylist:  
    print(i)
```

Python



if/else

```
if (mynumber > 5):  
    print("greater than 5")  
else:  
    print("not greater than 5")
```

Python

Documentation, tutorial, StackOverflow

Search for the problem and those words
Add jargon for extra help, e.g. length
function, regex library documentation

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