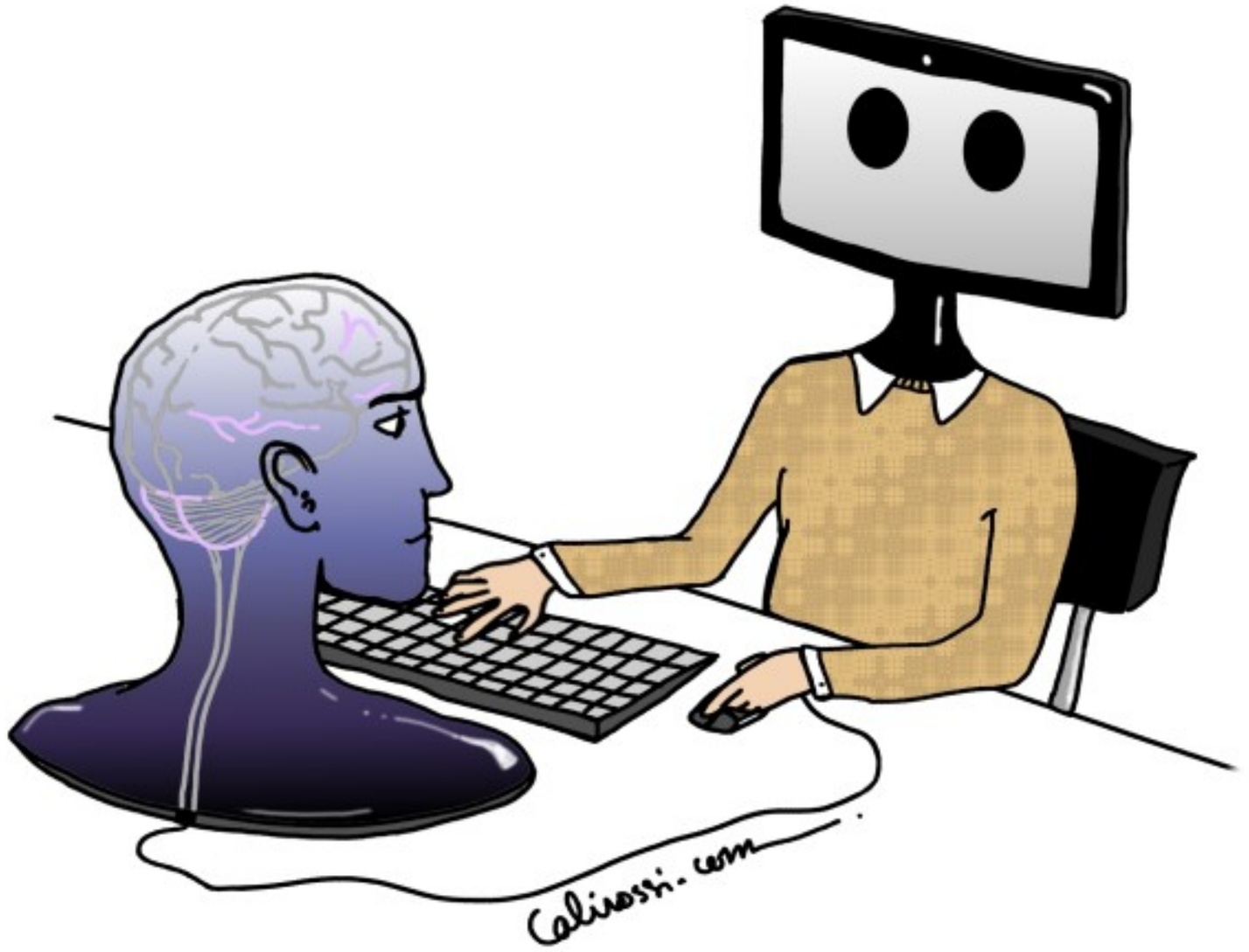
SC101

Week 4

Python dict

Computer Memory


calisossi.com

Stack and Heap


STACK


0x10A
0xFFF
0x891
0xE39
0x101
0x4FC


STACK

- Object Types
  A. GOval
  B. GRect
  C. Robot
  D. BreakoutGraphics

- Data Structure
  A. list
  B. dict

- Primitive Types
  A. int
  B. float
  C. bool

```python
def main():
    print('--------------')
    a = 0
    plus_one(a)
    print(a)
    print('--------------')
```

```
/usr/local/bin/python3.7 /Users/jerryliao/Desktop/交大材料/



Process finished with exit code 0
```

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def main():
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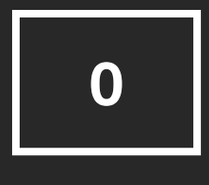


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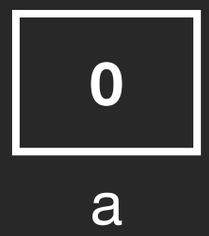


```
/usr/local/bin/python3.7 /Users/jerryliao/Desktop/交大材料/
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Process finished with exit code 0
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```
def main():
    def plus_one(a):
        a += 1
```


```
/usr/local/bin/python3.7 /Users/jerryliao/Desktop/交大材料/
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Process finished with exit code 0
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def main():
    a = 0
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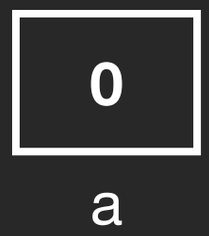


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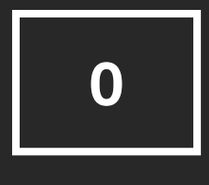


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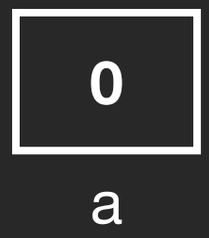


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Process finished with exit code 0
```

```
window = GWindow()


def main():
    rect = GRect(100, 100)
    rect.filled = True
    rect.fill_color = 'green'
    window.add(rect, 0, 0)
    change_color(rect)


def change_color(rect):
    rect.fill_color = 'magenta'
```

rect

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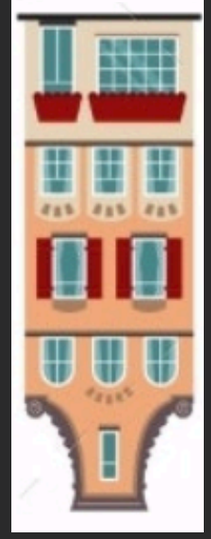
GRect (100, 100)

0x100



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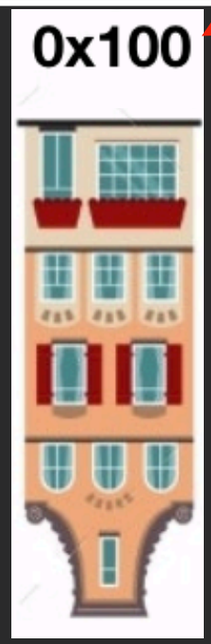

width=100
height=100

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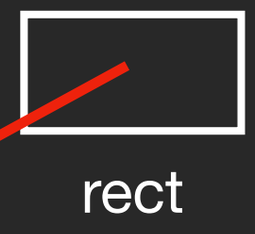
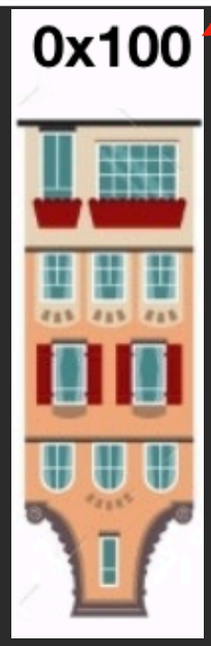


GRect (100, 100)



width=100
height=100
x = 0
y = 0

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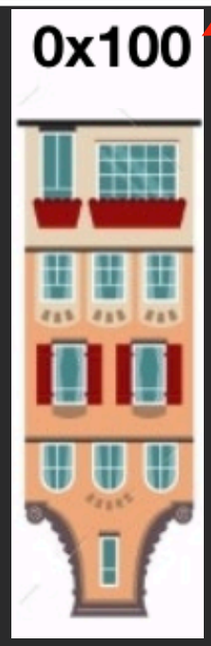

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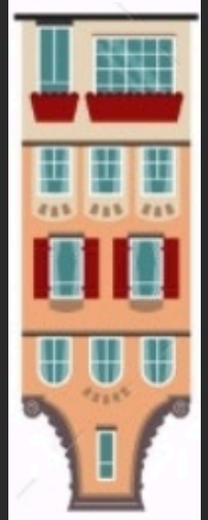

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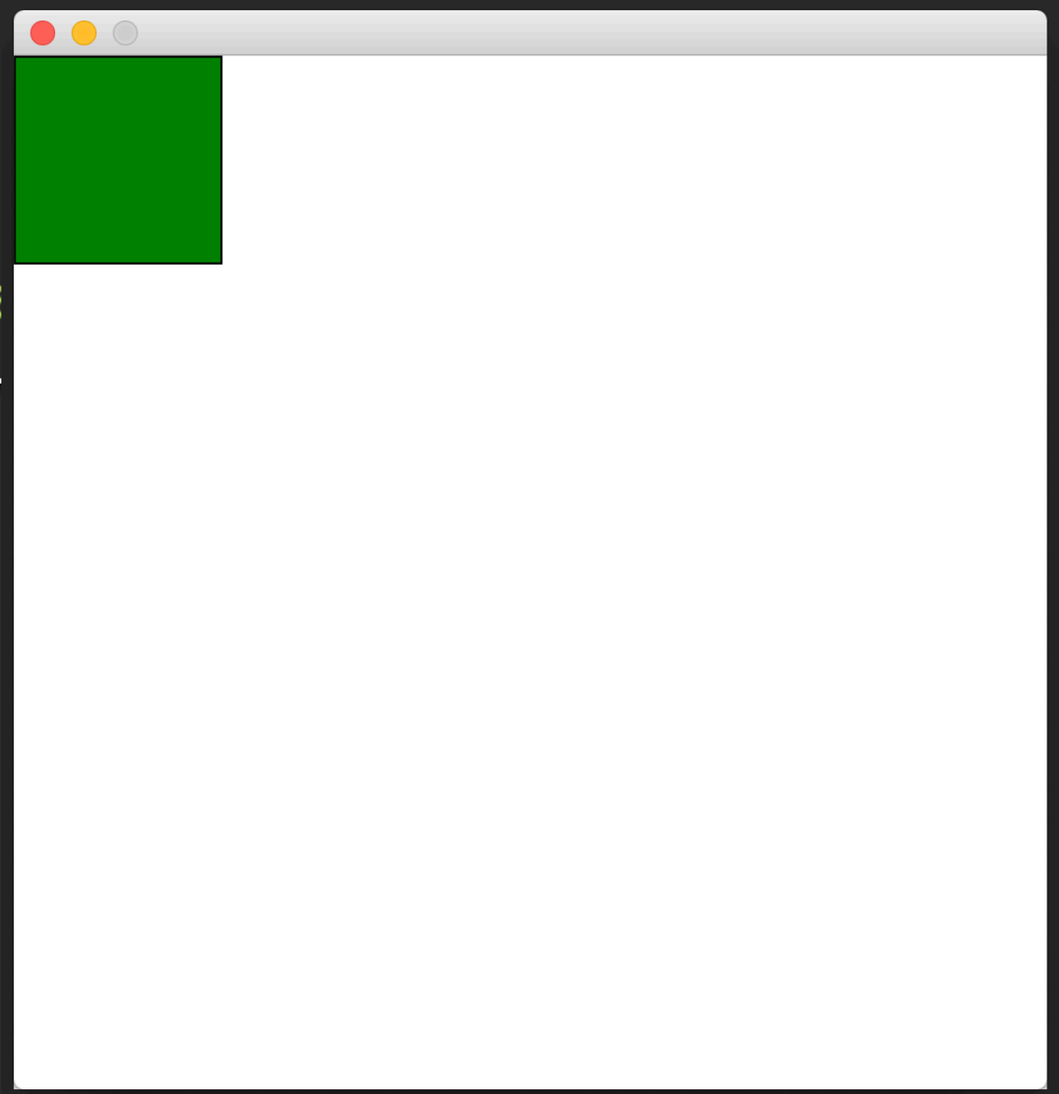

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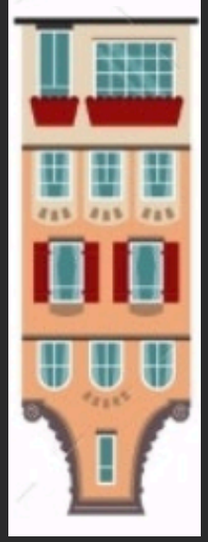

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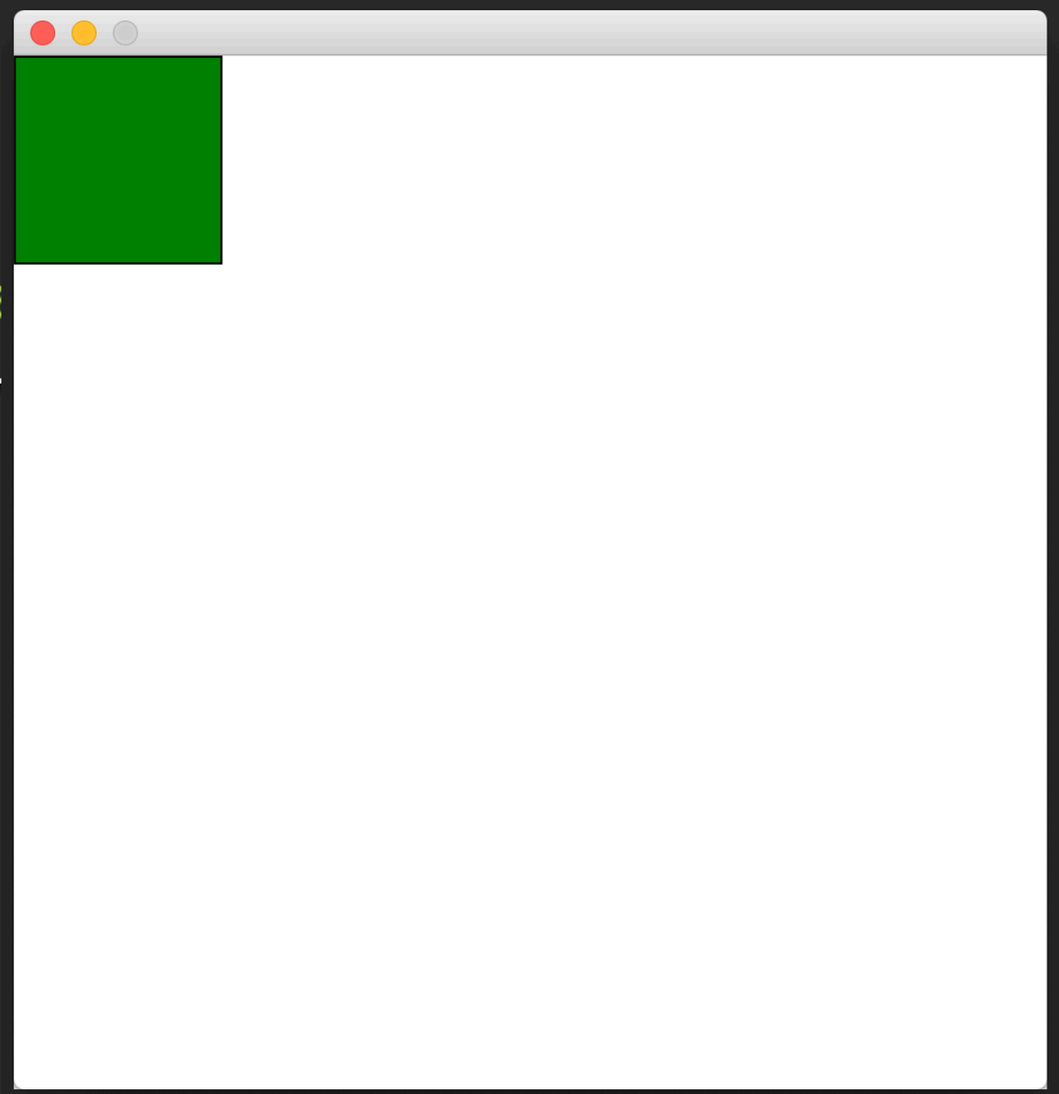

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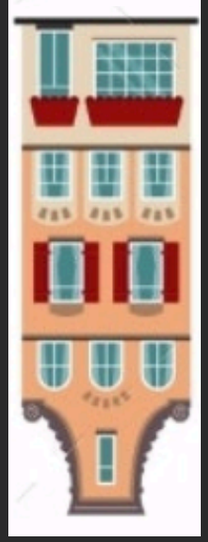

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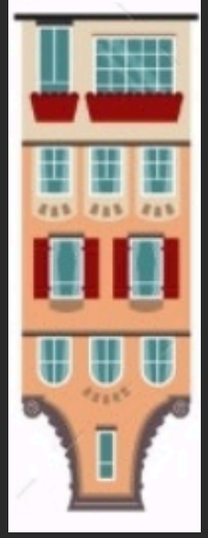

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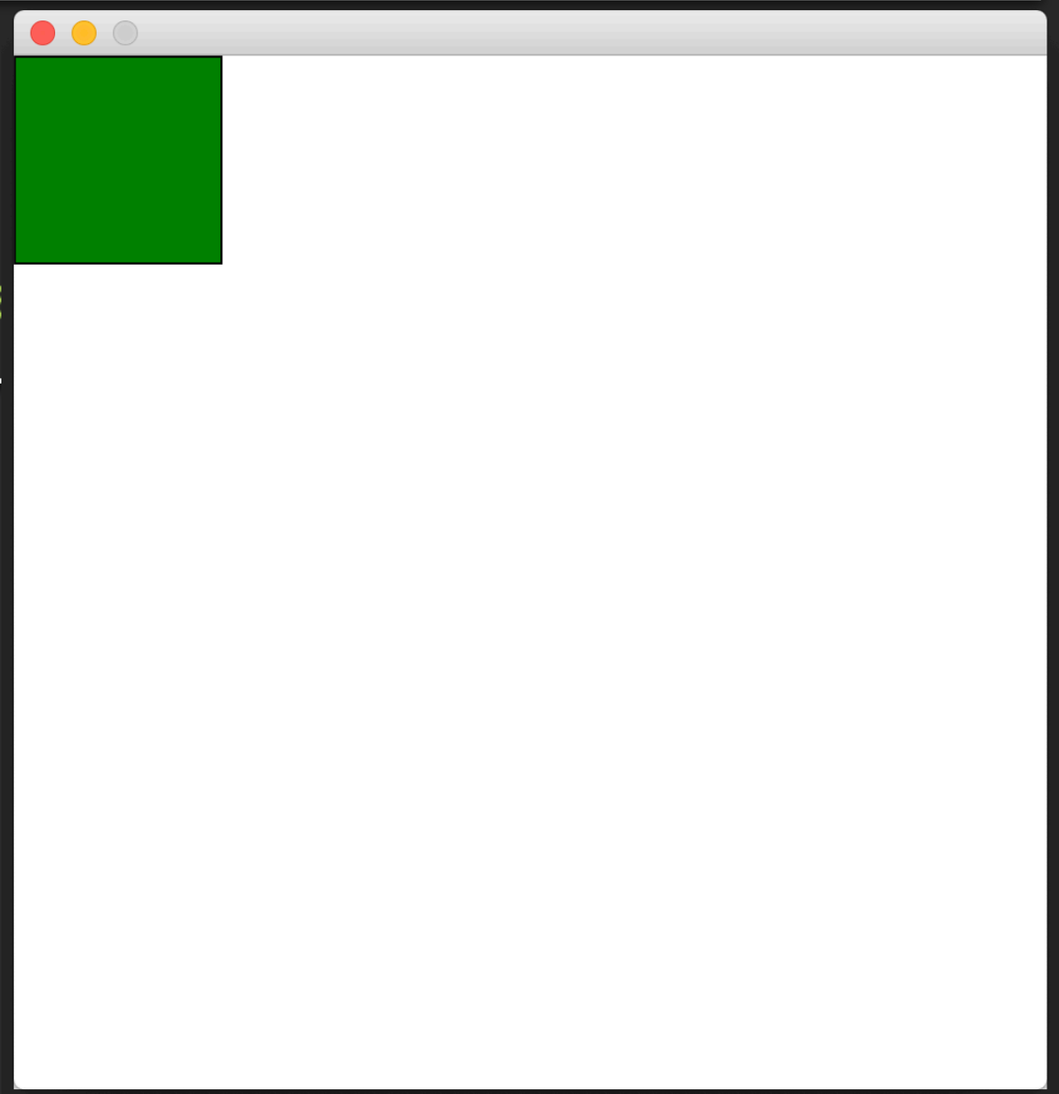

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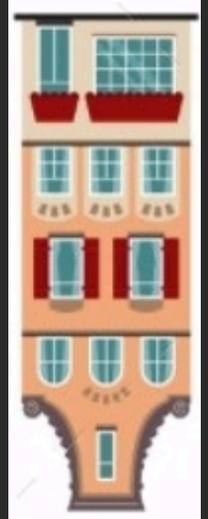

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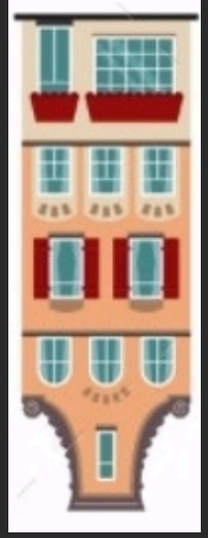

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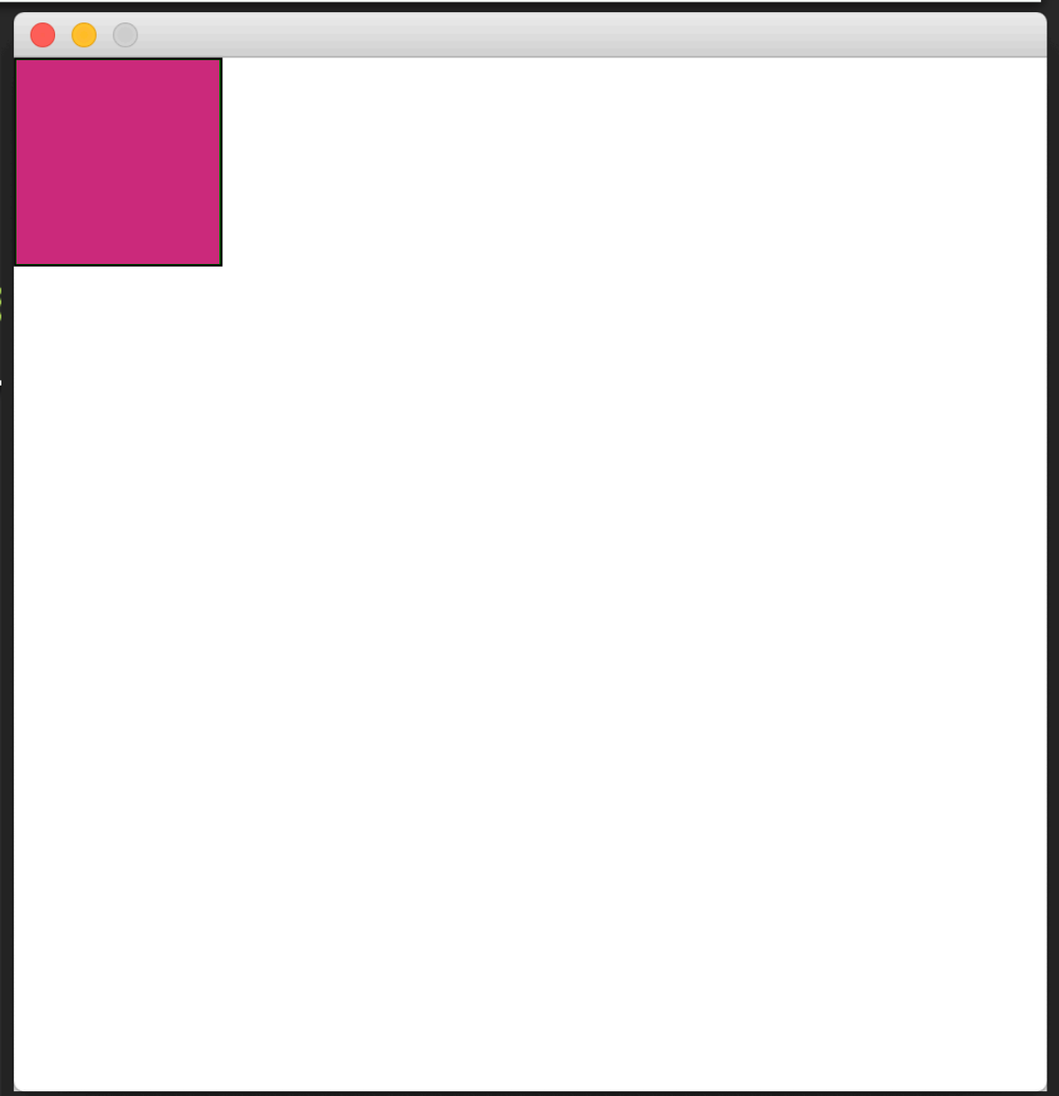

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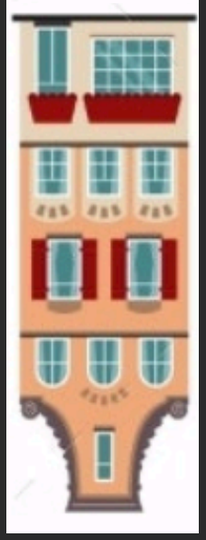

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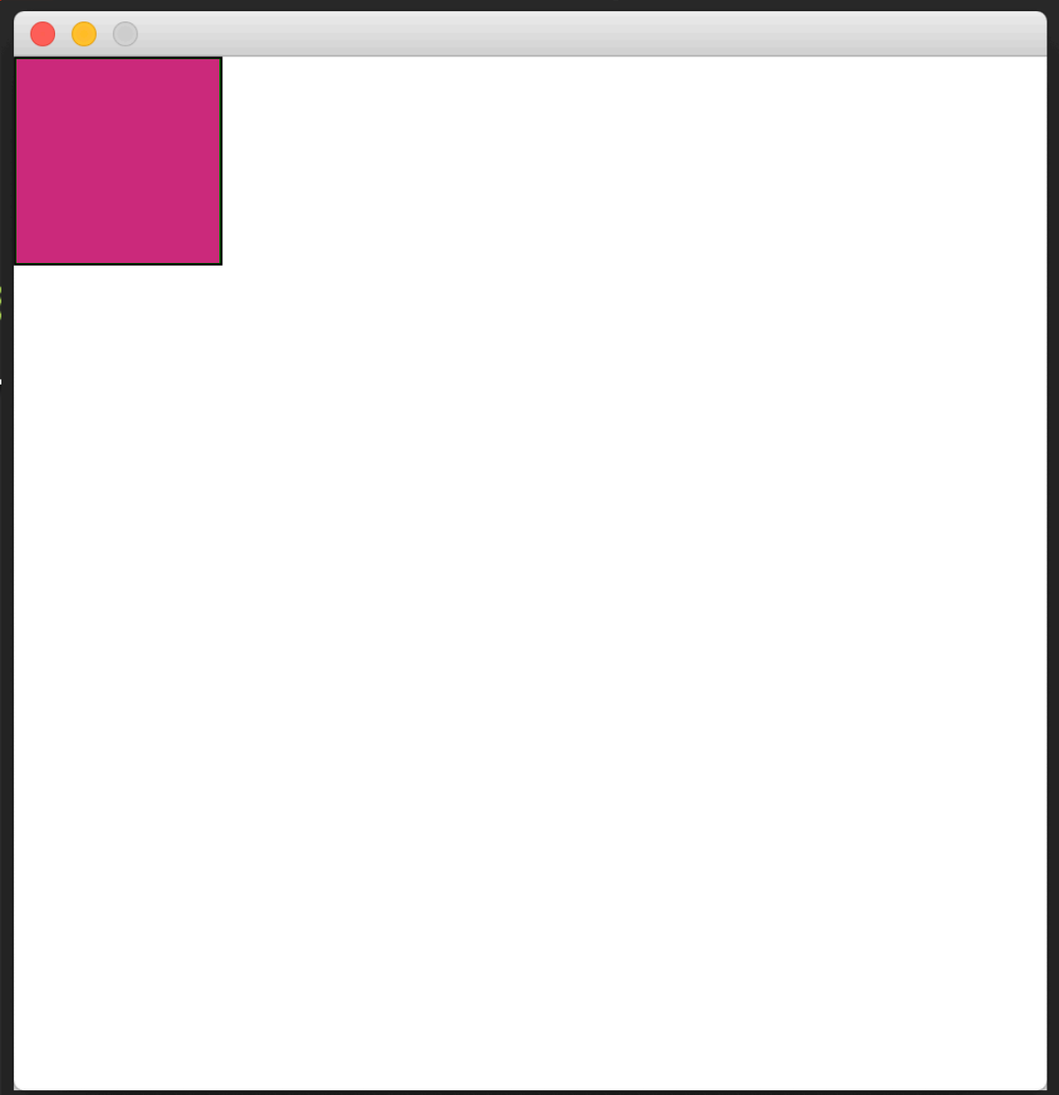

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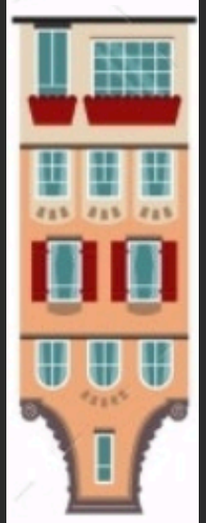

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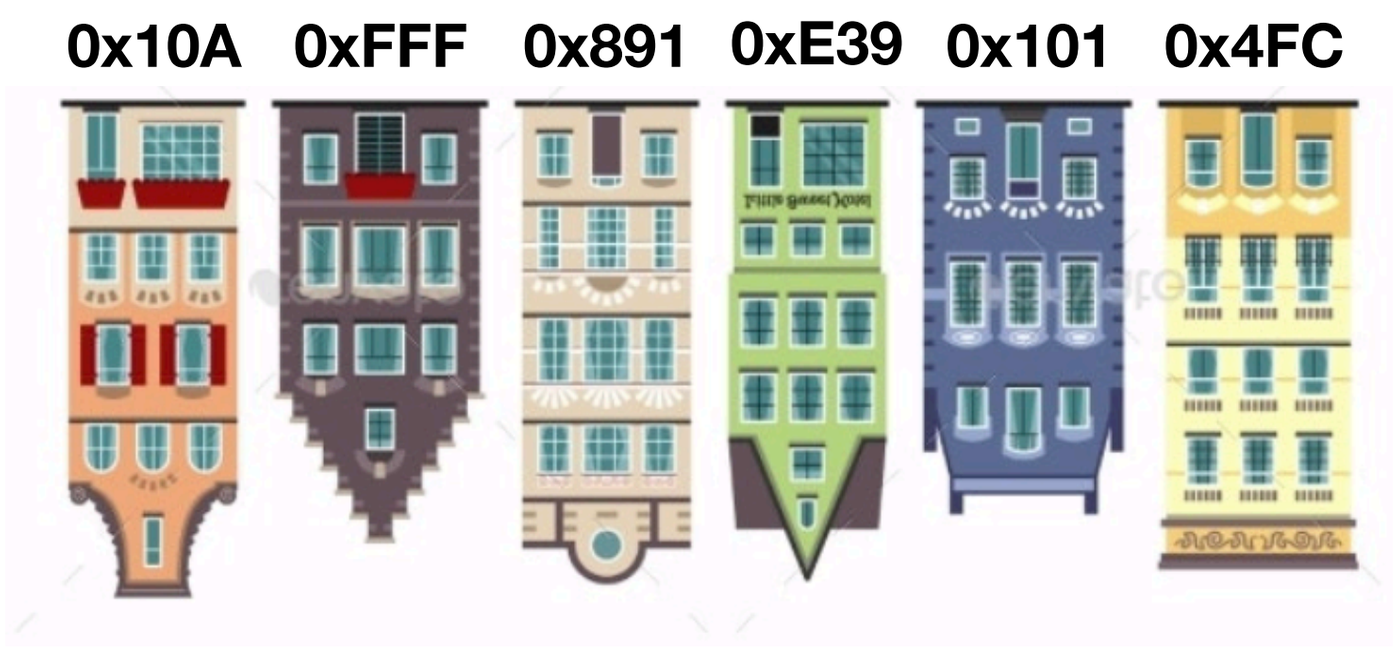

Pass by Reference

Pass by Value

```
def main():
    rect1 = GRect(100, 100)
    rect2 = GRect(100, 100)
    if rect1 == rect2:
        print('They are the same!')
    else:
        print('They are different!')
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?

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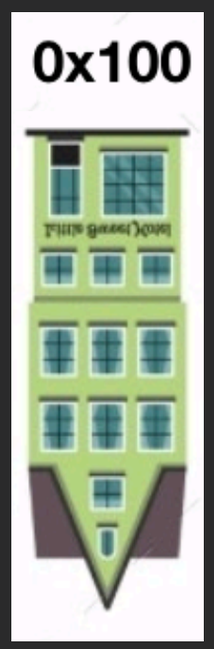

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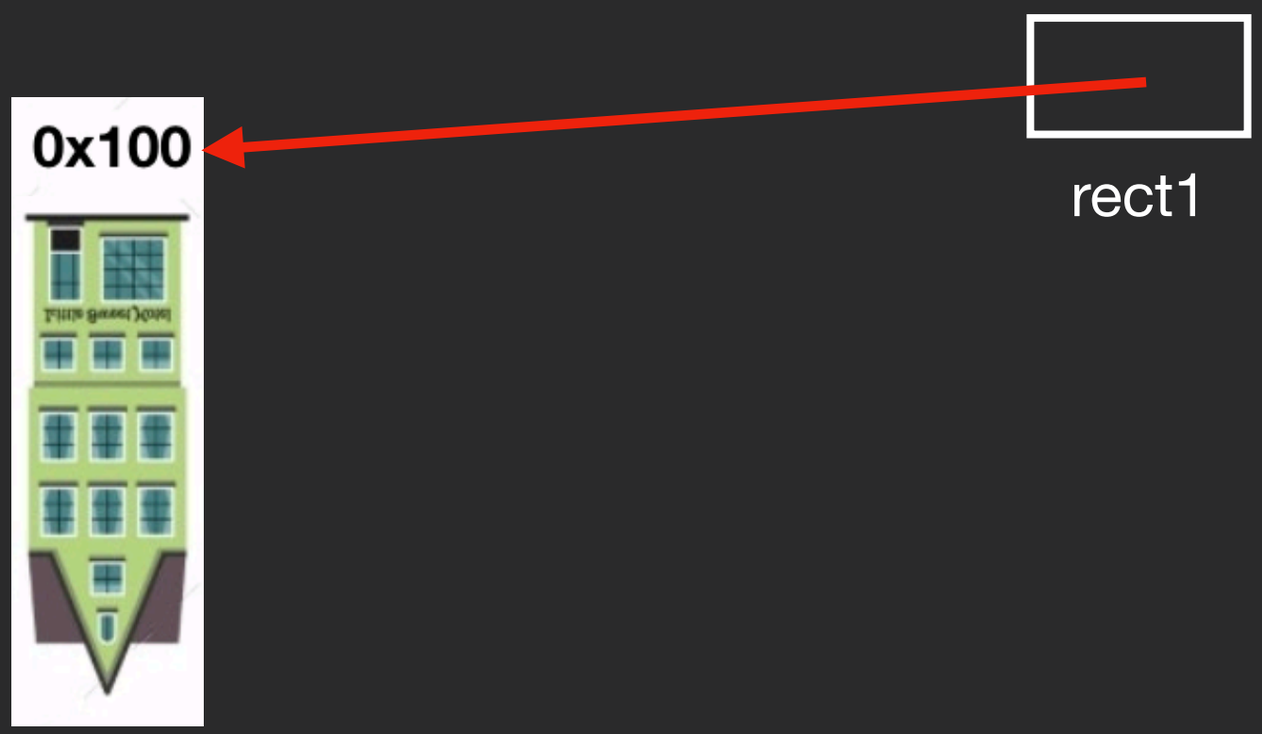

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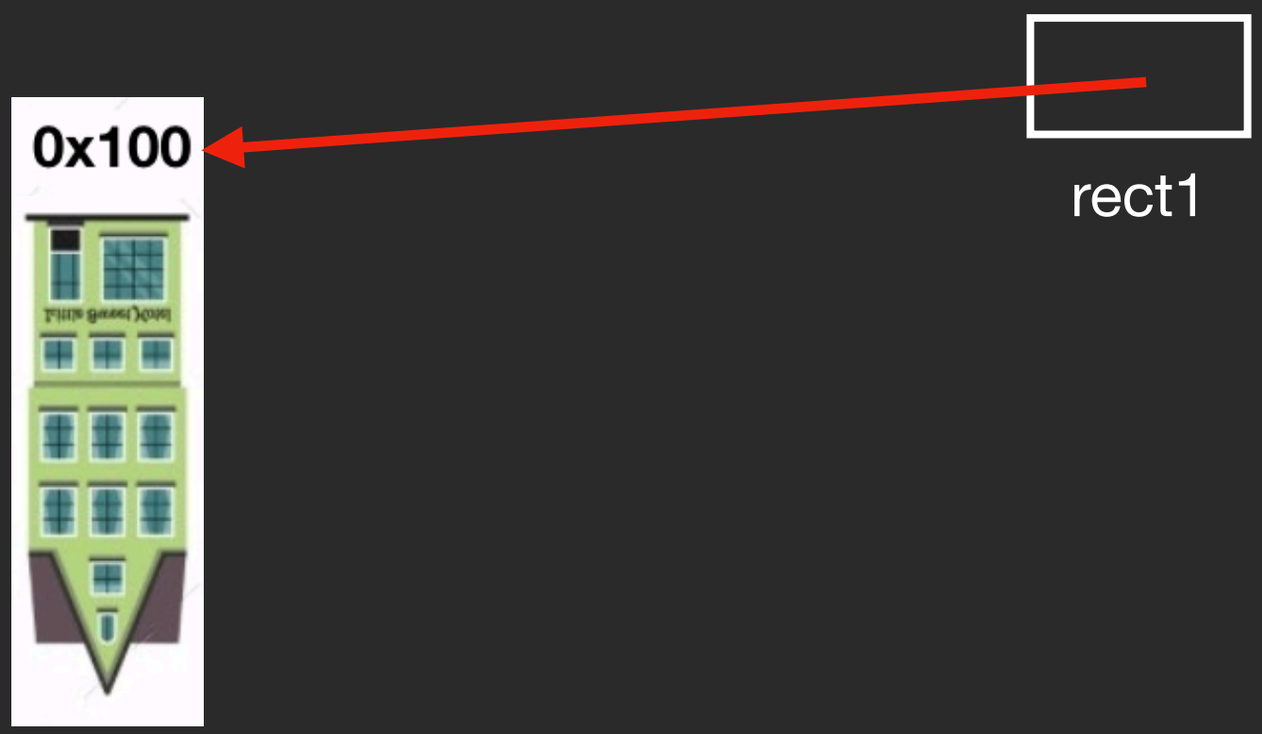

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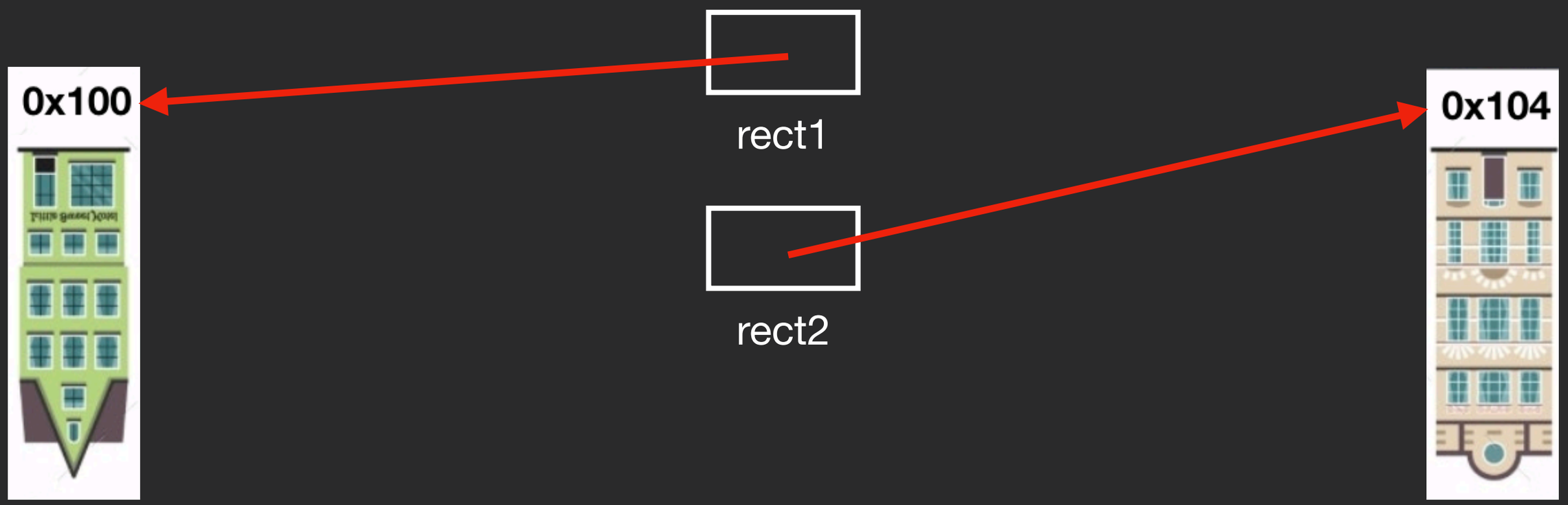

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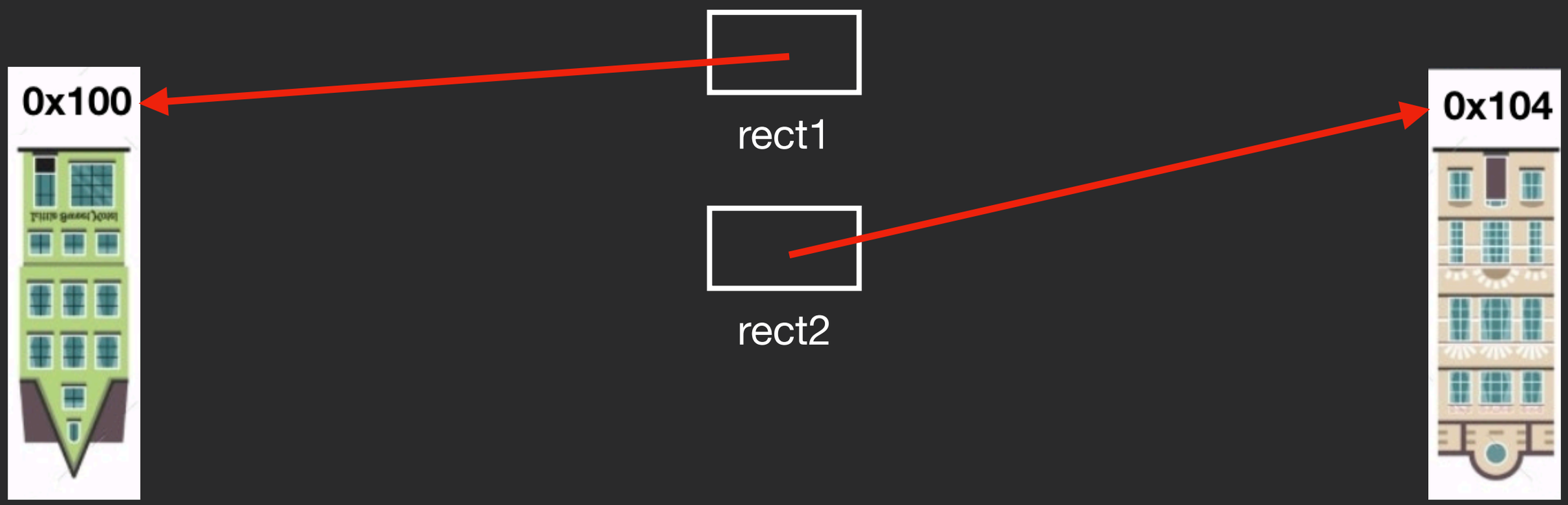

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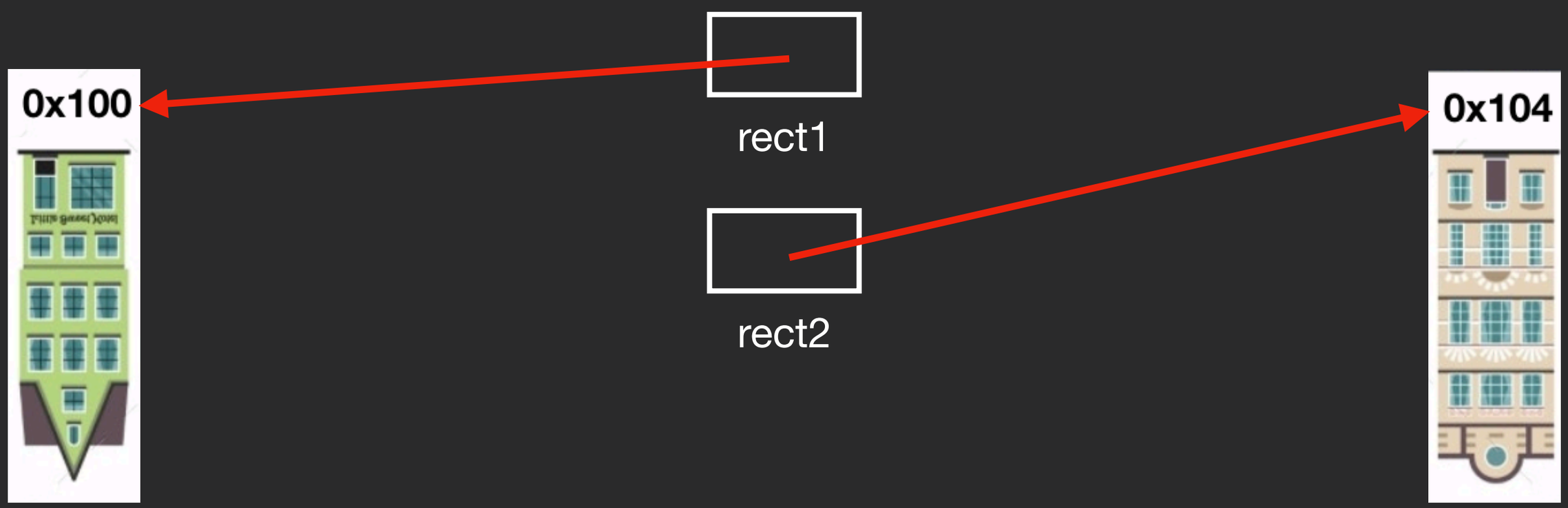

```python
def main():
    num1 = 101
    num2 = 101
    if num1 == num2:
        print('They are the same!')
    else:
        print('They are different!')
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```python
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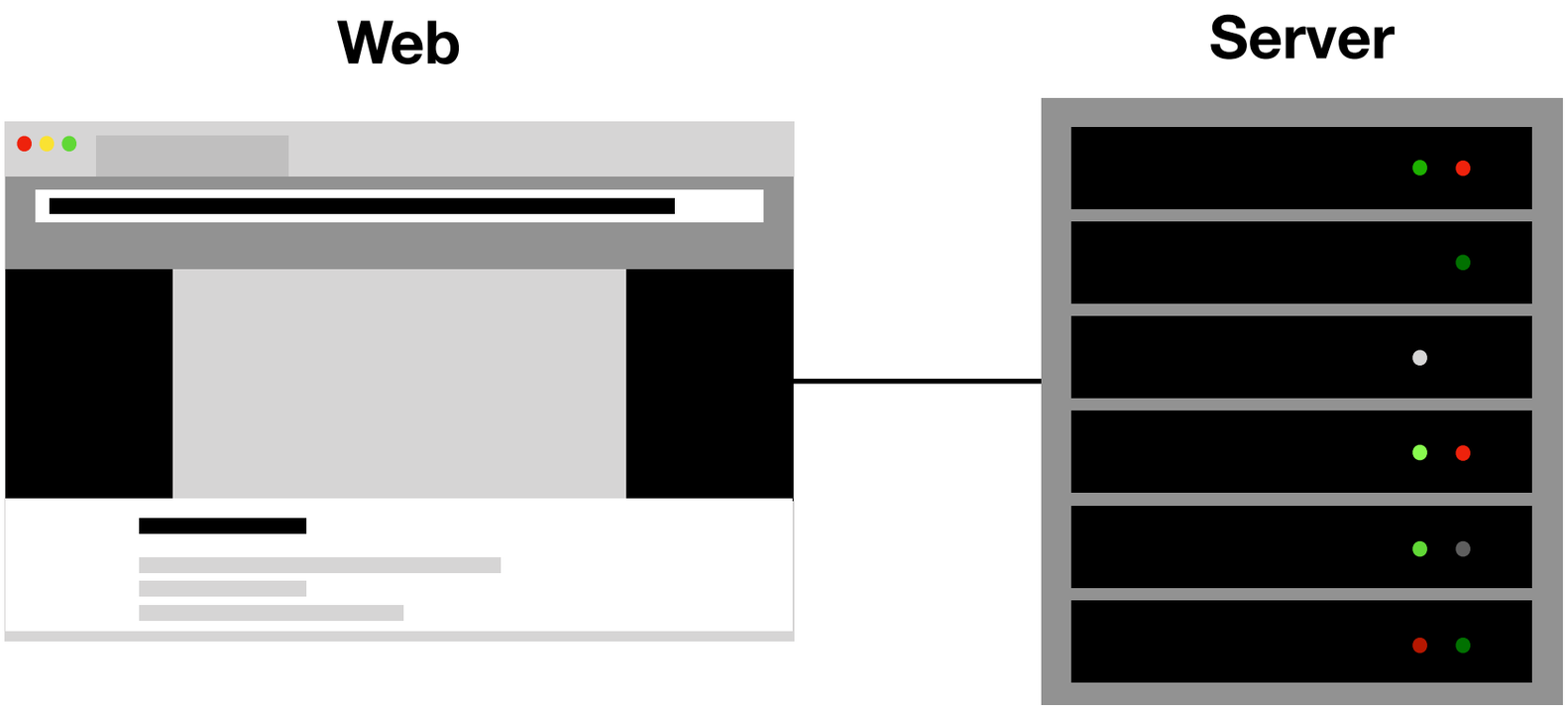
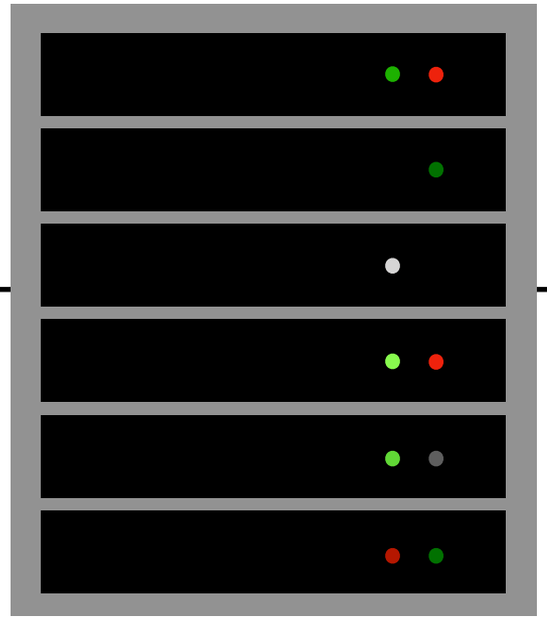
Web Development

Web

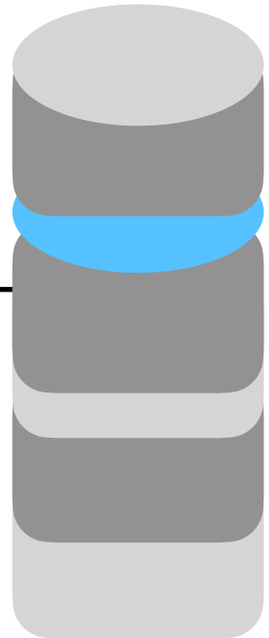

Web
Server

Web

Server

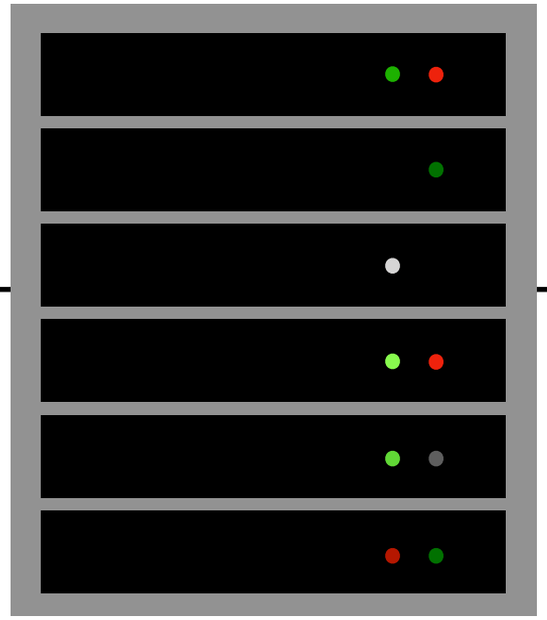


Data Base



Web

Server



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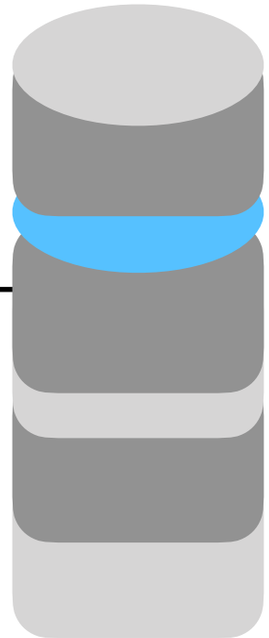
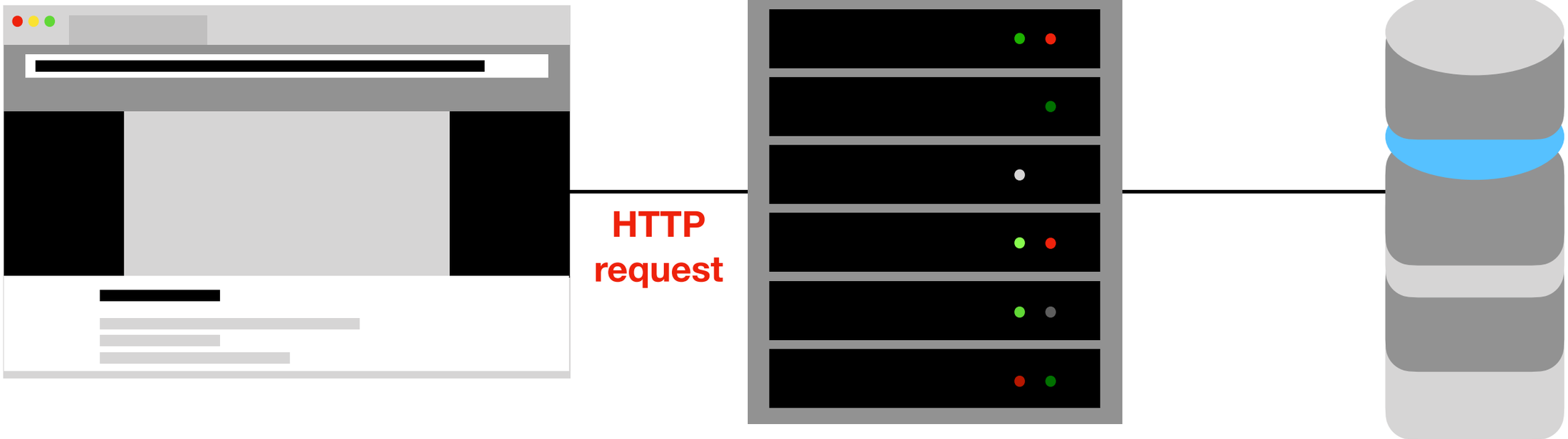


Web

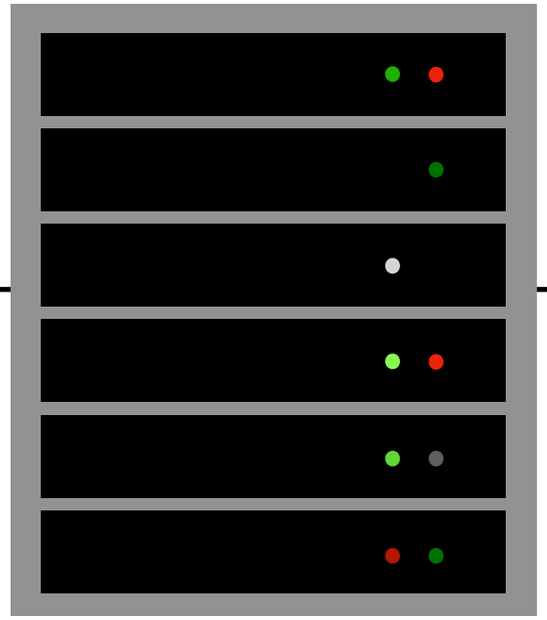
Server

Data Base

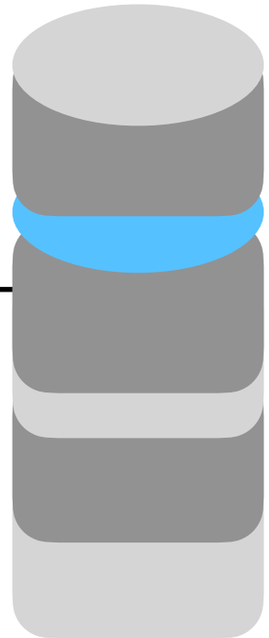


Web

Server



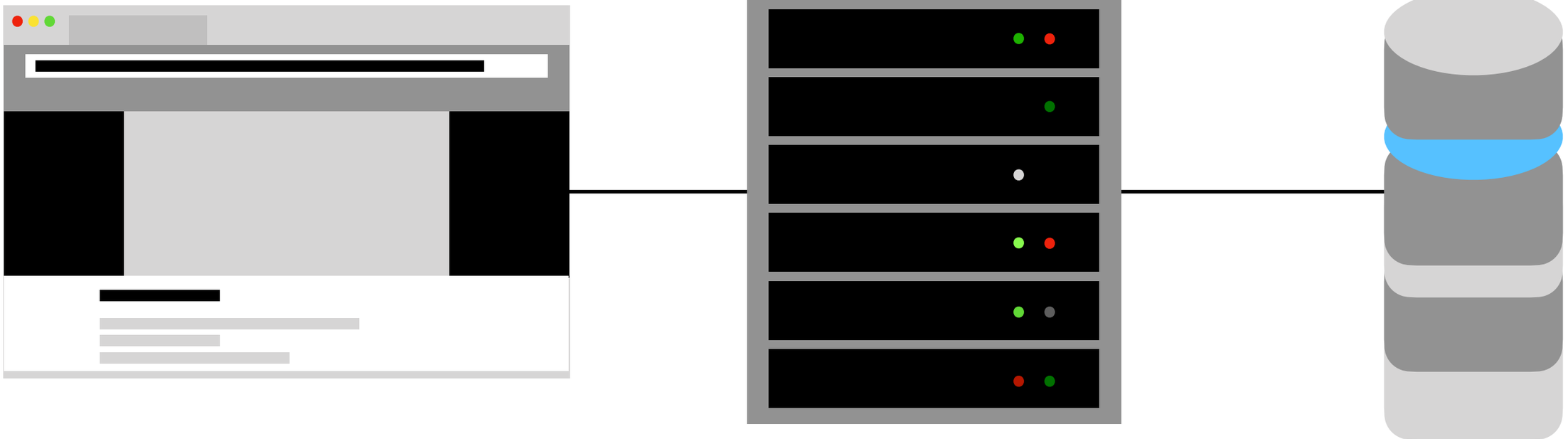
Data Base



Web

Server

Data Base

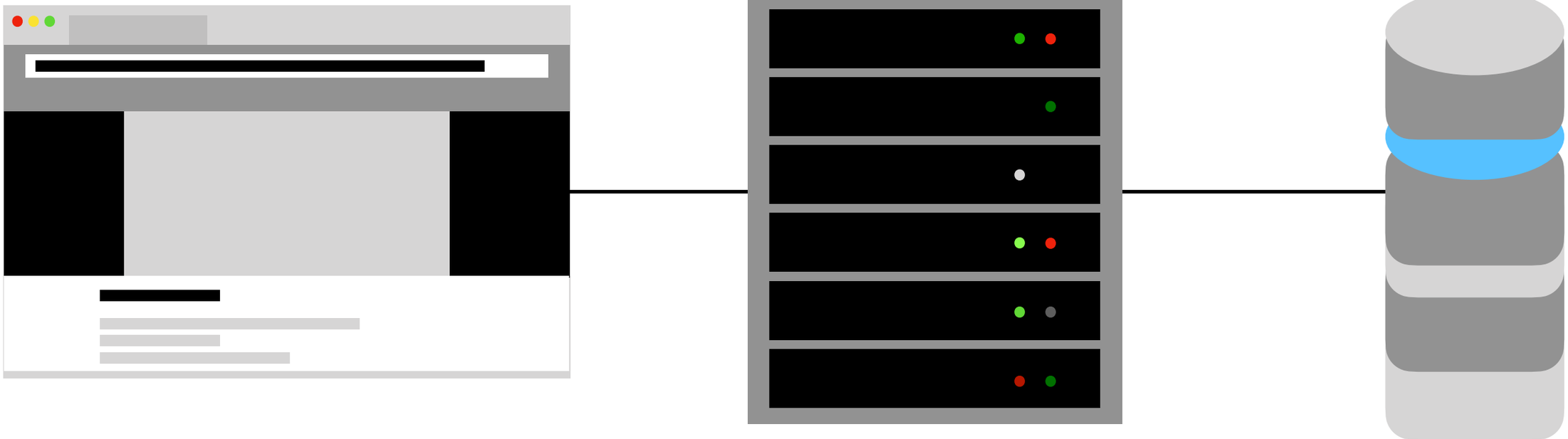


Front End Developer

Web

Server

Data Base



Front End Developer

Back End Developer

HTML Only

Computer Programmers
This topic is about the people who call themselves "Computer Programmers". This includes things like the culture of computer programming, social issues, technical issues, job i...
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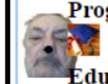
Al Klein wrote this ·
Computer Programmers
· 10h

Which laptop do programmers use?

Ok, how much does it cost?



Al Kl 43 years of earning a living developing systems.
Wrote 10h ago

Real programmers? The one they prefer.

How much does it cost? Anywhere between $100 and $1,500.

You don't buy extreme power to write HTML. You don't waste money to compile 5,000 lines of C++ or 50,000 lines of T-SQL.

A real programmer doesn't choose by brand, size (or, in languages by commands or "pretty-ness"), but by fitting the tool to the job. Many programs can't be compiled on laptops (just try installing a few 25 million record database tables on a laptop), so they use desktops or minis.

It's like asking which <insert tool name> any <insert trade> uses. Sure you can patch a tire with a small hole with hand-held tools, but the guy working on the tires of those huge earth-movers in Minnesota doesn't patch 6" holes in *those* tires with hand-tools.

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- Reddit (product)
- Trigonometr (mathematic
- Probability (statistics)

To pick a minor net - 25million records, on a modern laptop, isn't all that much.

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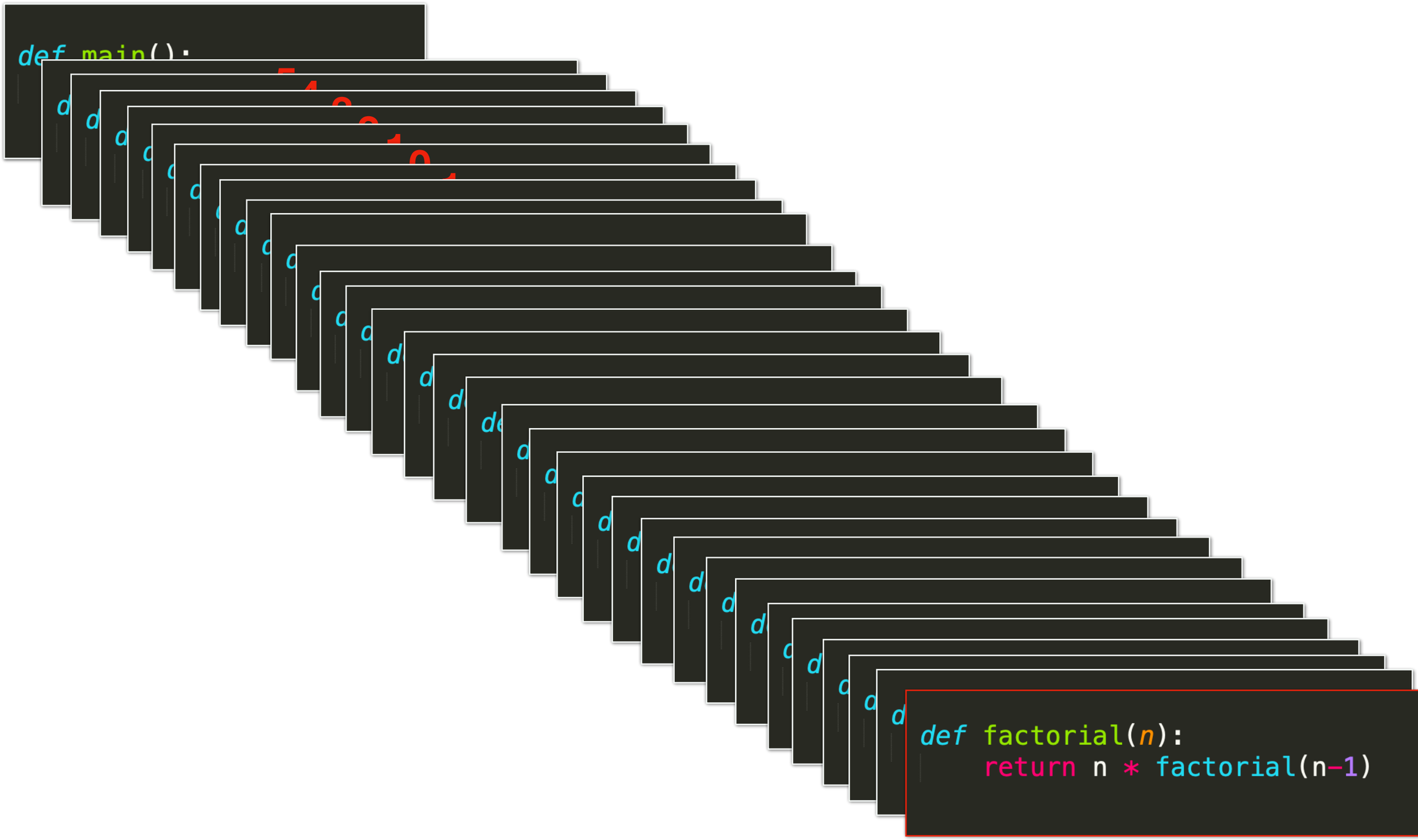
 2. 教父 (1972)	9.1	☆
 3. 教父第二集 (1974)	9.0	☆
 4. 黑暗騎士 (2008)	9.0	☆
 5. 十二怒漢 (1957)	8.9	☆
 6. 辛德勒的名單 (1993)	8.9	☆
 7. 魔戒三部曲：王者再臨 (2003)	8.9	☆
 8. 黑色追緝令 (1994)	8.8	☆

<Mac>

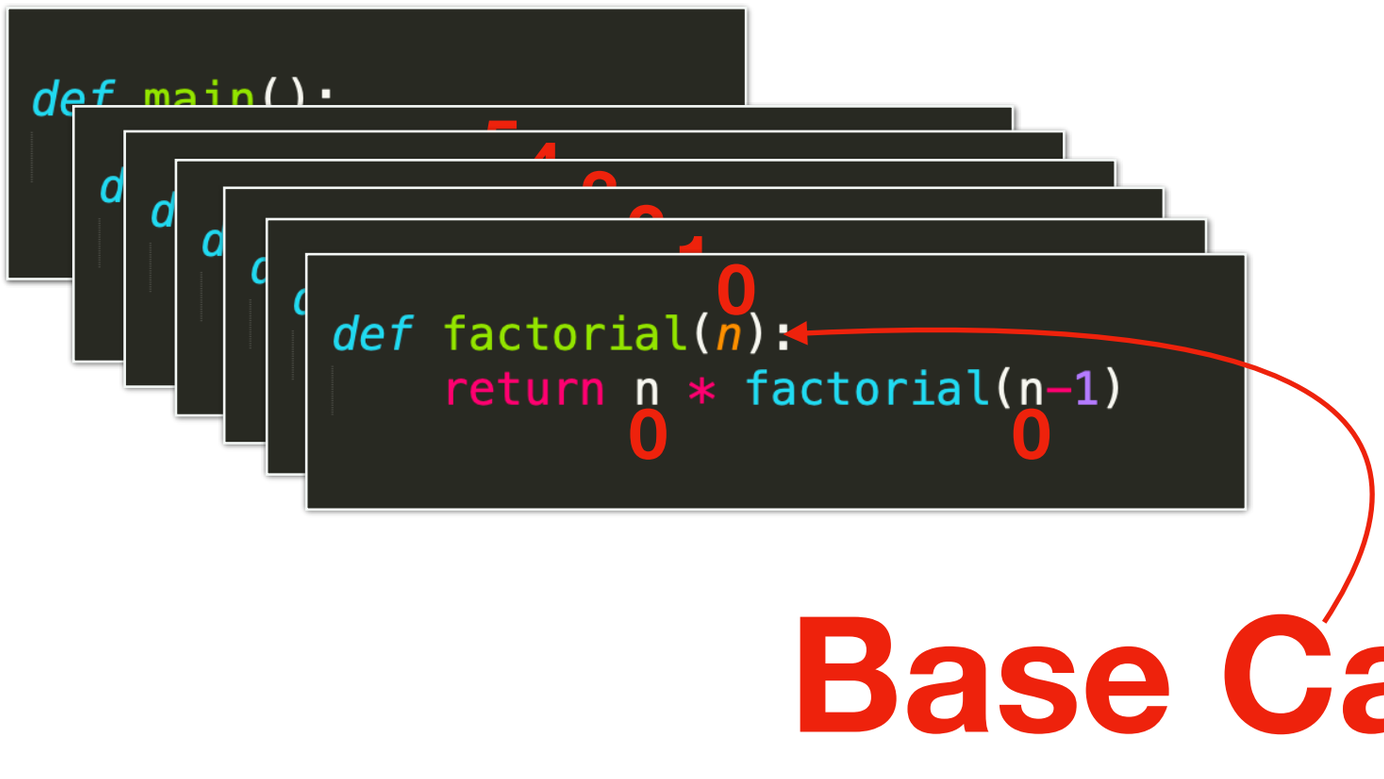
```
python3 -m pip install requests
python3 -m pip install bs4
```

<Windows>

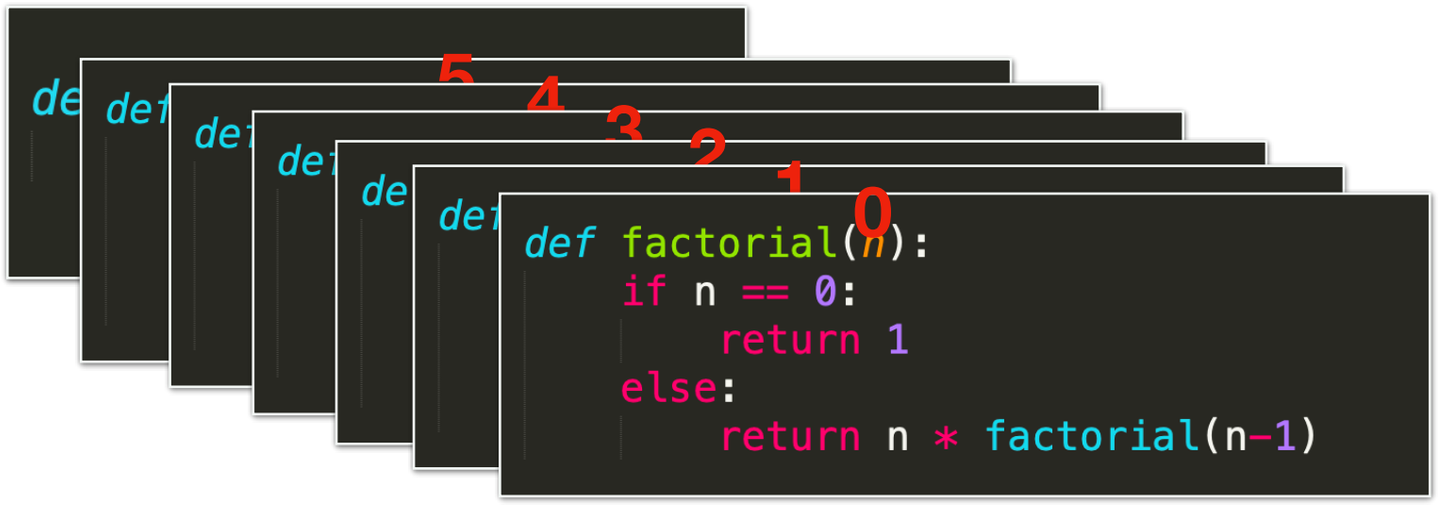
```
py -m pip install requests
py -m pip install bs4
```

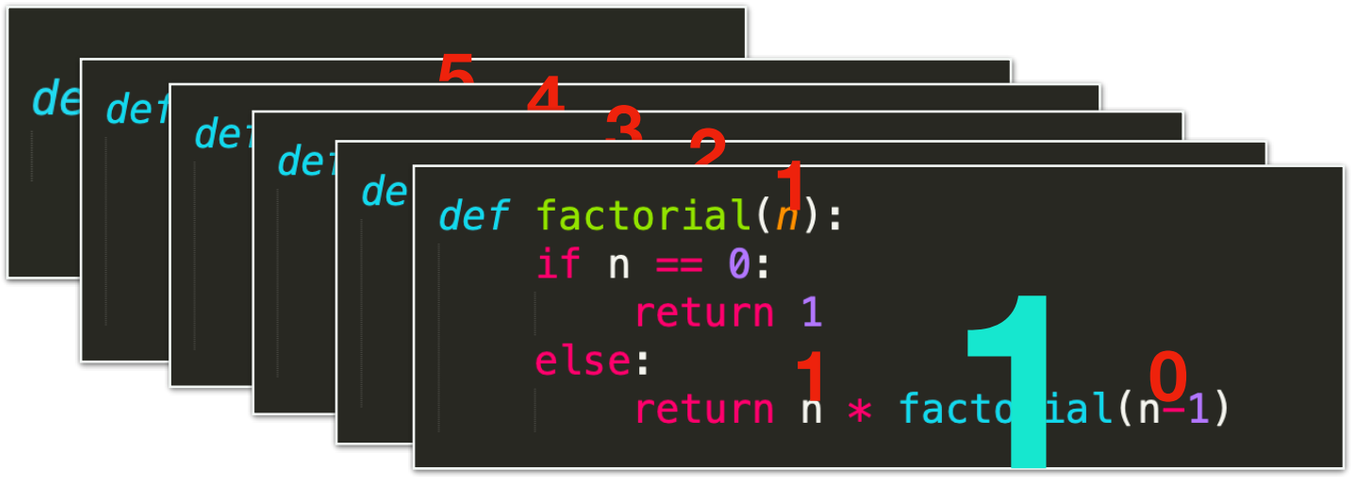

def main():
def factorial(n):
return n * factorial(n-1)

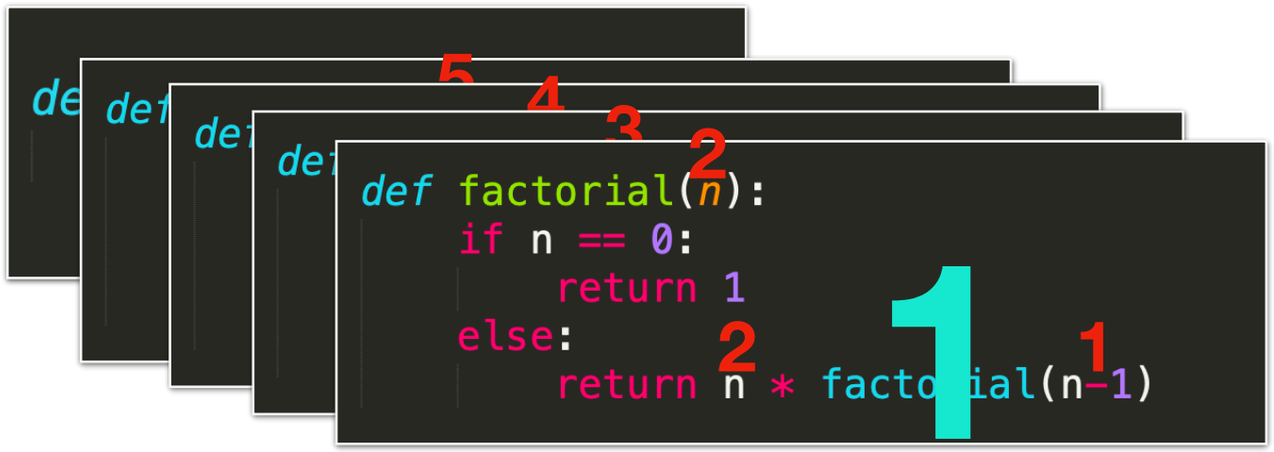
Stack Overflow

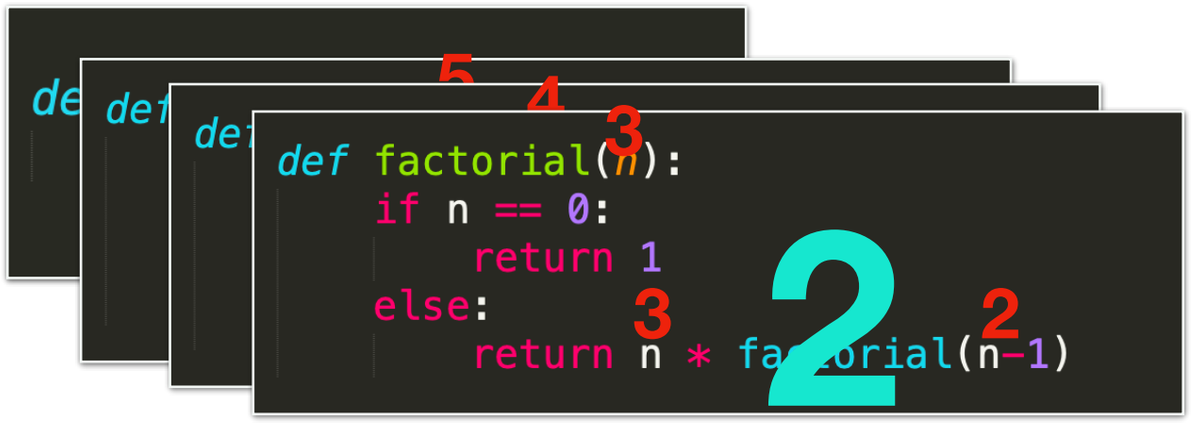


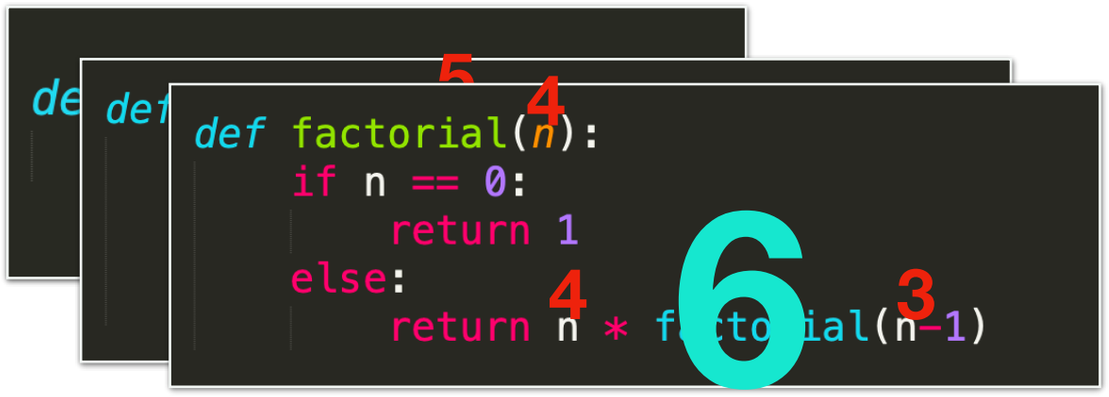
Base Case

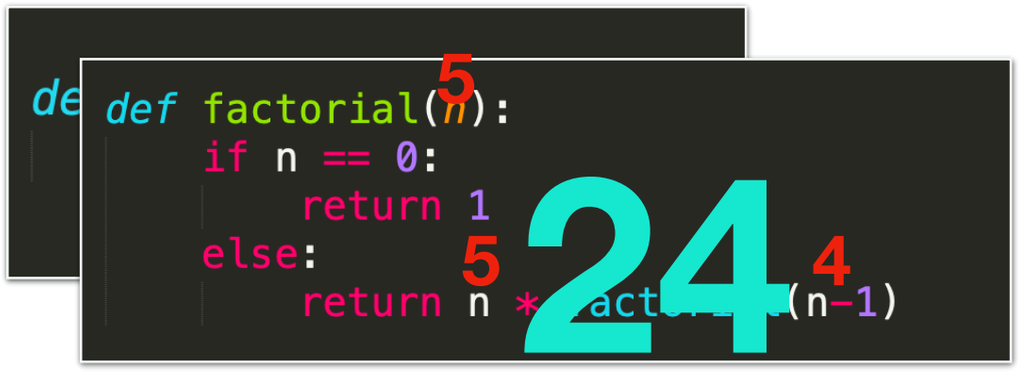

5
4
3
2
1
0
def factorial(n):
if n == 0:
return 1
else:
return n * factorial(n-1)


5
4
3
2
1
def factorial(n):
if n == 0:
return 1
else:
return n * factorial(n-1)
1
1
0


5
4
3
2
def factorial(n):
if n == 0:
return 1
else:
return n * factorial(n-1)
2
1
1


5
4
3
def factorial(n):
if n == 0:
return 1
else:
3
2
2
return n * factorial(n-1)


5
4
def factorial(n):
if n == 0:
return 1
else:
4
6
3
return n * factorial(n-1)


def factorial(n):
if n == 0:
return 1
else:
return n * factorial(n-1)
5
5
4
24

```
def main():
    print(factorial(5))
```

120