<Lecture Title>

Summer 2020

<Lecturer> May 24, 2020

Content

- 1. A section, like a chapter
- 2. A section, like a chapter
- 3. A section, like a chapter
- 4. A section, like a chapter
- 5. A section, like a chapter
- 6. A section, like a chapter

Content



7. A section, like a chapter

8. A section, like a chapter

Overview of this Lecture



1. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point





Figure: This is a cat

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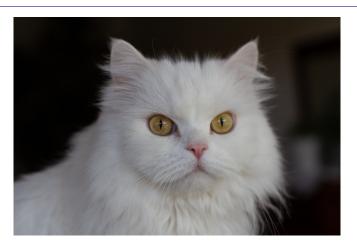


Figure: The Caption

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Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{1}$$

q = Square(sidelength=25)

print(q.calculate_area())

print(q.calculate_circumference())

Manual Istlisting env

12

13

14

```
class Square():

def __init__(self, sidelength = 1):
    self.length = sidelength

def calculate_circumference(self):
    return 4 * self.length

def calculate_area(self):
    return self.length**2
```

Listing 1: A square class in Python

q = Square(sidelength=25)

print(q.calculate_area())

print(q.calculate_circumference())

Manual Istinputlisting

12

13

14

```
class Square():

def __init__(self, sidelength=1):
    self.length = sidelength

def calculate_circumference(self):
    return 4*self.length

def calculate_area(self):
    return self.length**2
```

Listing 2: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 3: The Caption 🗗

Overview of this Lecture



2. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point



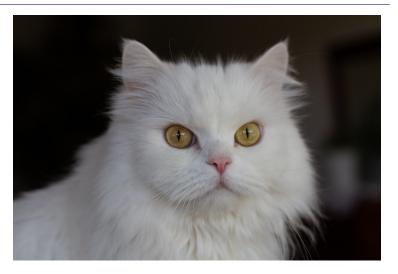


Figure: This is a cat

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Title of the Lecture



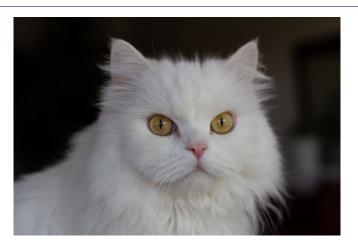


Figure: The Caption

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Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{2}$$

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Manual Istlisting env

```
class Square():
1
       def __init__(self, sidelength = 1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4 * self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 4: A square class in Python

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 5: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 6: The Caption 🗗

Overview of this Lecture



3. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point



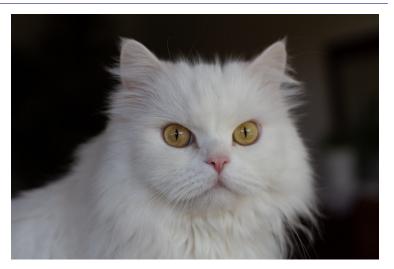


Figure: This is a cat

Title of the Lecture Summer 2020 28

\bilds{<image>}





Title of the Lecture



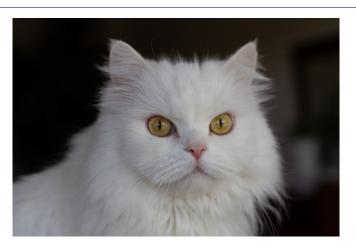


Figure: The Caption

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Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{3}$$

Manual Istlisting env

```
class Square():
1
       def __init__(self, sidelength = 1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4 * self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 7: A square class in Python

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 8: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 9: The Caption 🗗

Overview of this Lecture



4. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point



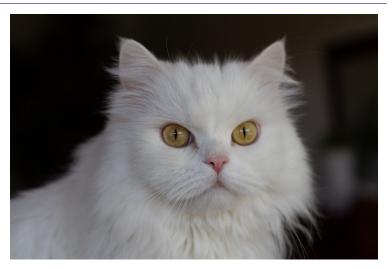


Figure: This is a cat

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Title of the Lecture Summer 2020



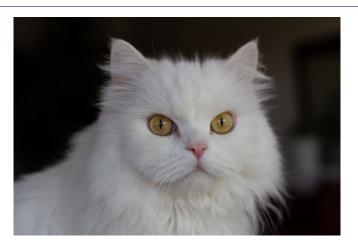


Figure: The Caption

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Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q}$$
 (4)

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Manual Istlisting env

```
class Square():
1
       def __init__(self, sidelength = 1):
3
          self.length = sidelength
5
       def calculate circumference(self):
6
          return 4 * self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 10: A square class in Python

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 11: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 12: The Caption 🗗

Overview of this Lecture



5. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point



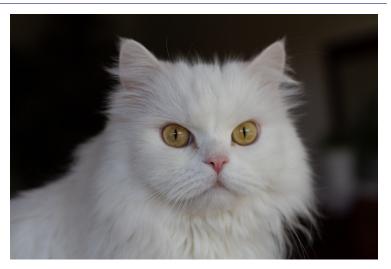


Figure: This is a cat

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Title of the Lecture

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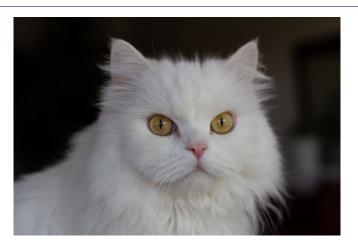


Figure: The Caption

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Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{5}$$

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Manual Istlisting env

```
class Square():
1
       def __init__(self, sidelength = 1):
3
          self.length = sidelength
5
       def calculate circumference(self):
6
          return 4 * self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 13: A square class in Python

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 14: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 15: The Caption 🗗

Overview of this Lecture



6. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point



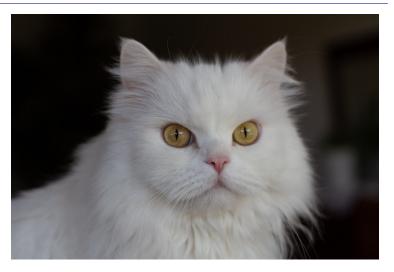


Figure: This is a cat

Title of the Lecture Summer 2020 61

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Title of the Lecture

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Figure: The Caption

\bildf{<scale>}{<image>}{<caption>}





Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{6}$$

self.length = sidelength

return 4 * self.length

print(q.calculate_circumference())

def calculate_area(self): return self.length**2

q = Square(sidelength=25)

print(q.calculate_area())

Manual Istlisting env

1

3

5

6

7 8

10 11

12

13

14

class Square():

```
def __init__(self, sidelength = 1):
def calculate_circumference(self):
```

```
Listing 16: A square class in Python
```

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 17: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 18: The Caption 🗗

Overview of this Lecture



7. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point



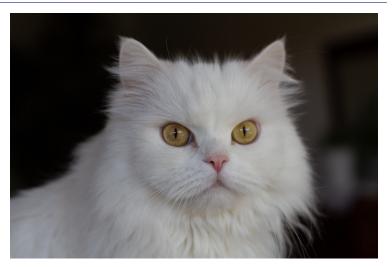


Figure: This is a cat

Title of the Lecture Summer 2020 72

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Title of the Lecture

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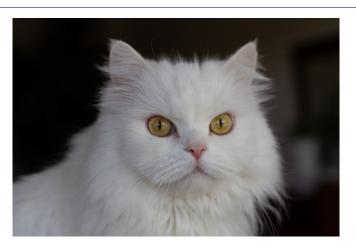


Figure: The Caption

 $\label{lem:lemmage} $$ \left(< > \right) {< < >} {< < >} $$$





Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{7}$$

Manual Istlisting env

```
class Square():
1
       def __init__(self, sidelength = 1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4 * self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 19: A square class in Python

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 20: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 21: The Caption 🗗

Overview of this Lecture



8. A section, like a chapter

Some basic itemize

Some Subtitle



- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point





Figure: This is a cat

Title of the Lecture Summer 2020 83

\bilds{<image>}





Title of the Lecture

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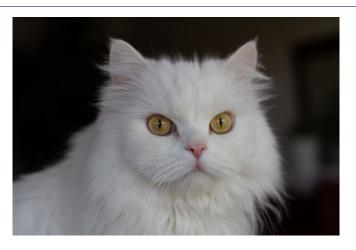


Figure: The Caption

$\label{lem:lemmage} $$ \left(< > \right) {< < >} {< < >} $$$





Figure: The Caption

 $\label{lem:lemmage} $$ \left(< scale > \right) {< caption > } $$$





The Caption

Some basic Math



$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{8}$$

Title of the Lecture Summer 2020 88

Manual Istlisting env

```
class Square():
1
       def __init__(self, sidelength = 1):
3
          self.length = sidelength
5
       def calculate circumference(self):
6
          return 4 * self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 22: A square class in Python

Manual Istinputlisting

```
class Square():
1
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
          return 4*self.length
7
8
       def calculate_area(self):
          return self.length**2
10
11
    q = Square(sidelength=25)
12
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 23: Another square class in Python

\pypy{Caption}{File}

```
class Square():
       def __init__(self, sidelength=1):
3
          self.length = sidelength
5
       def calculate_circumference(self):
6
7
          return 4*self.length
8
       def calculate_area(self):
9
10
          return self.length**2
11
12
    q = Square(sidelength=25)
    print(q.calculate_circumference())
13
    print(q.calculate_area())
14
```

Listing 24: The Caption 🗗