<Lecture Title>

Summer 2020

<Lecturer>

May 24, 2020

Content

Content

Overview of this Lecture

1. A section, like a chapter

Some basic itemize

Some Subtitle

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An Image

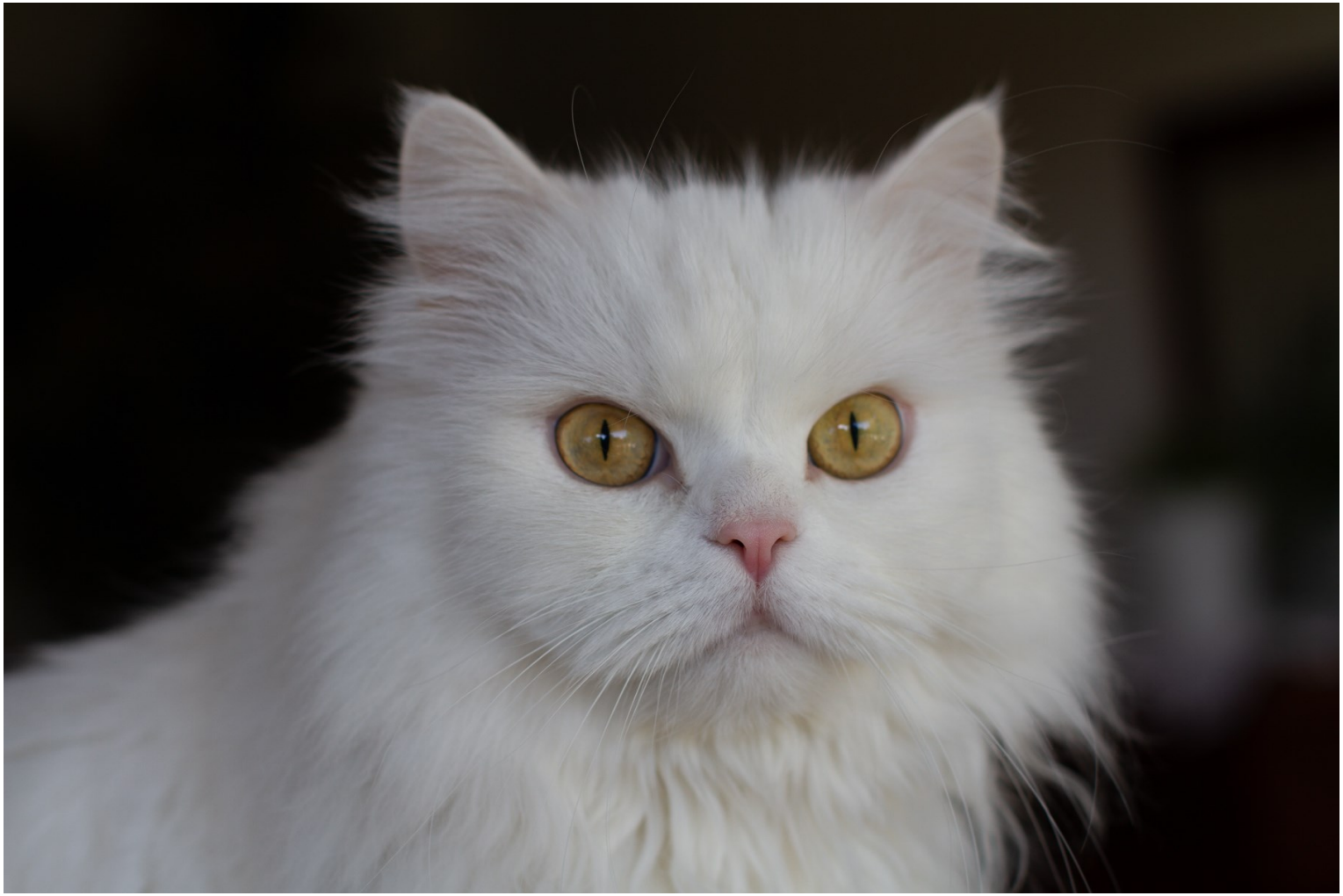

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 1: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 2: Another square class in Python

Overview of this Lecture

2. A section, like a chapter

Some basic itemize

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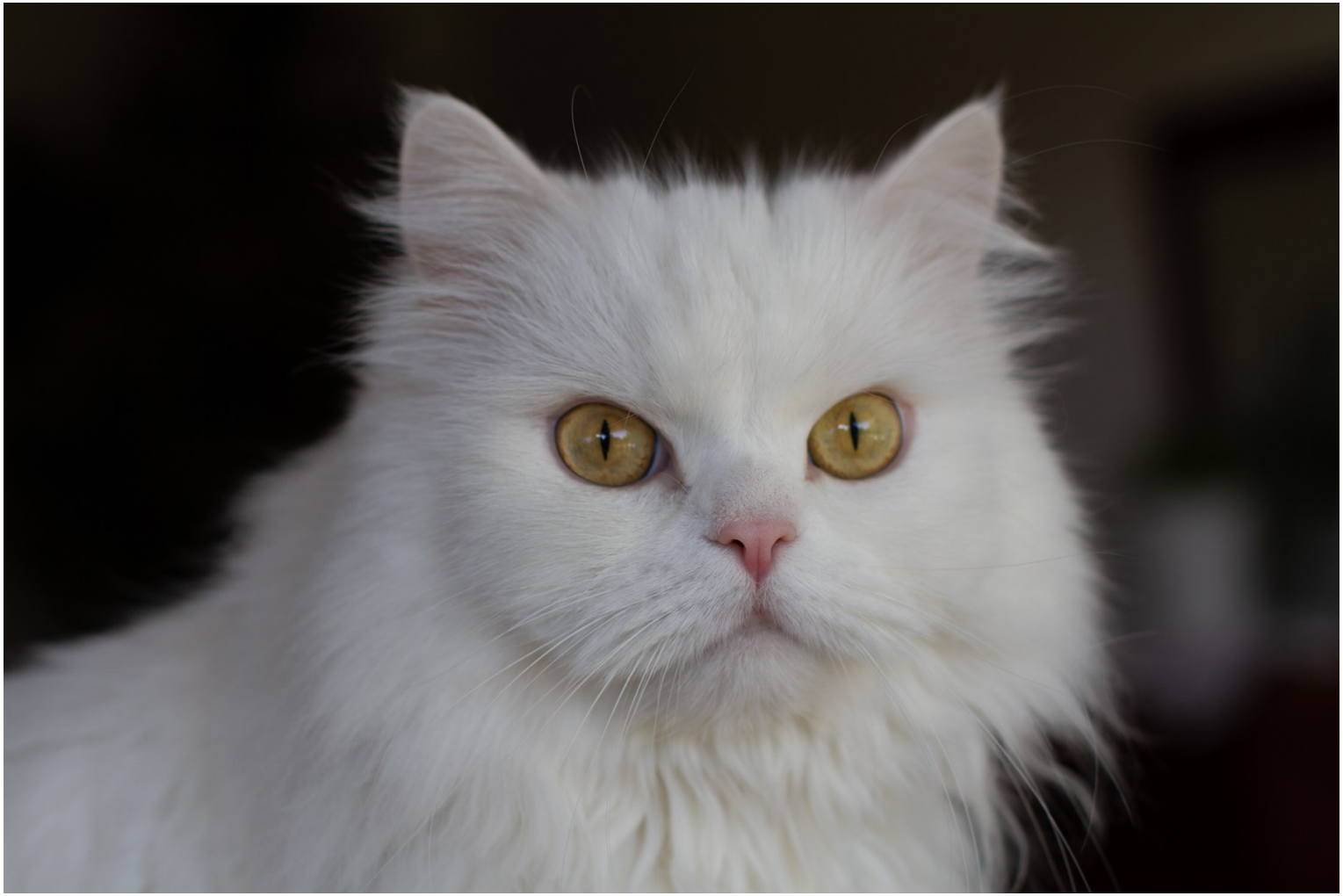

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 3: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 4: Another square class in Python

Overview of this Lecture

3. A section, like a chapter

Some basic itemize

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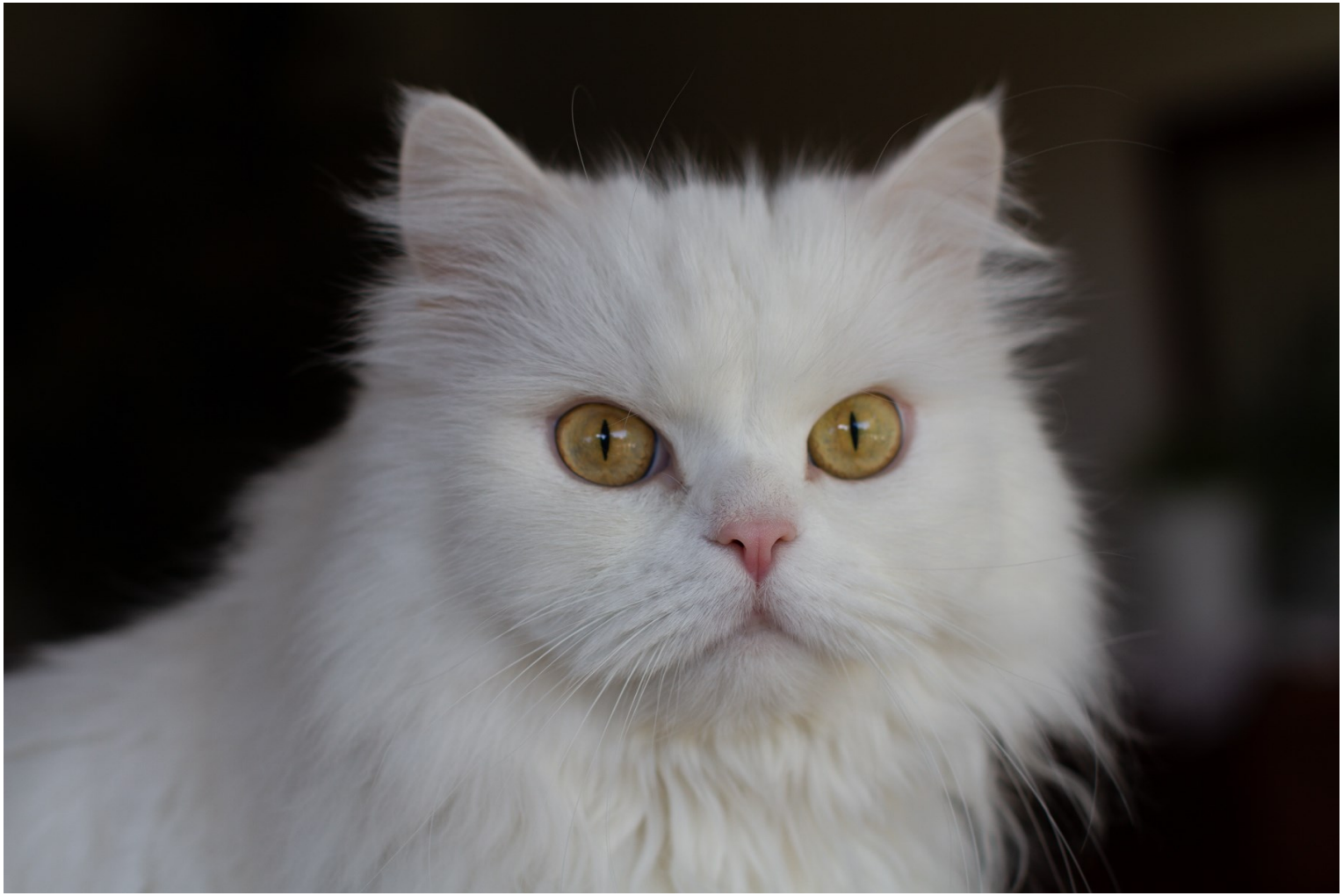

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 5: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 6: Another square class in Python

Overview of this Lecture

4. A section, like a chapter

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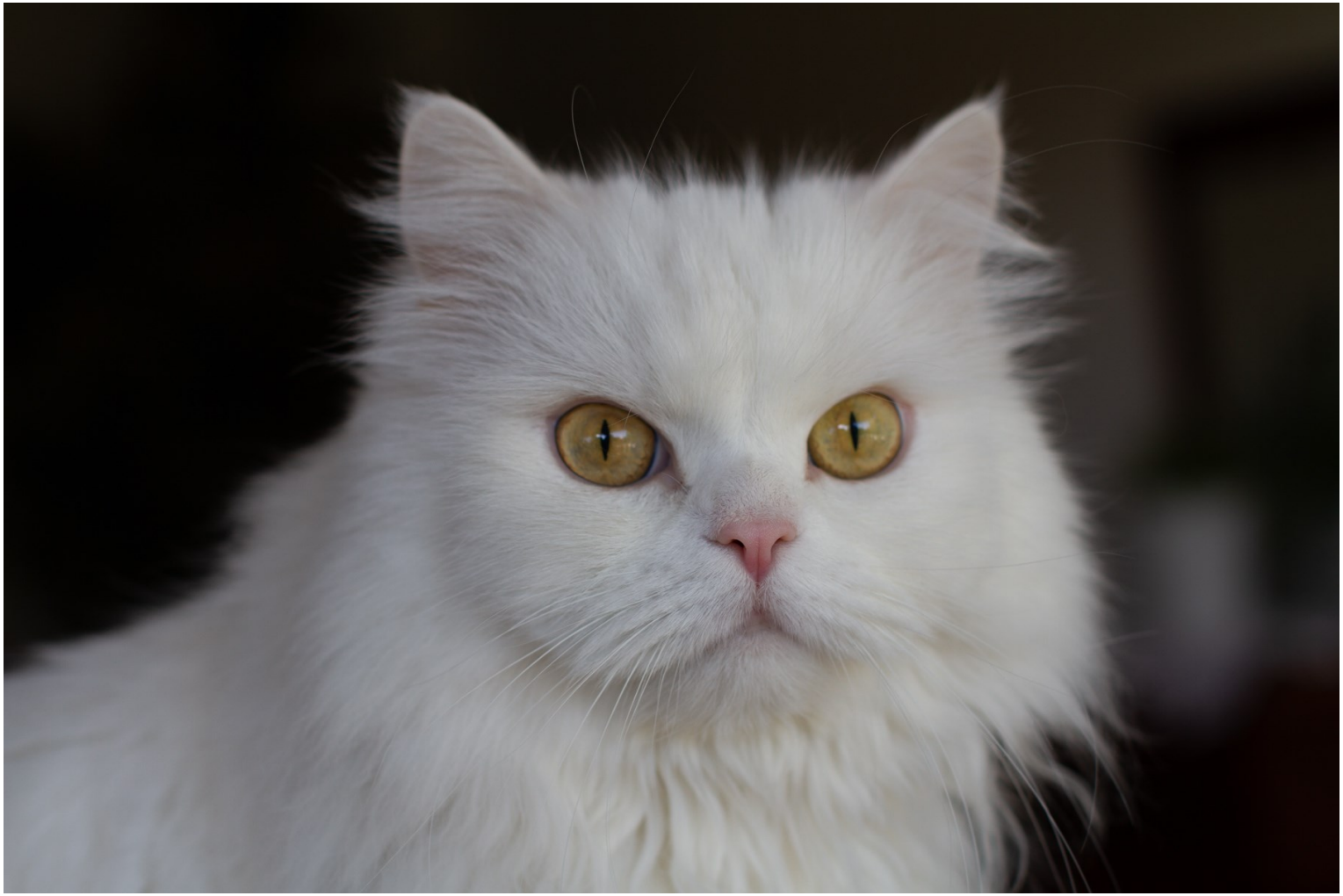

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 7: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 8: Another square class in Python

Overview of this Lecture

5. A section, like a chapter

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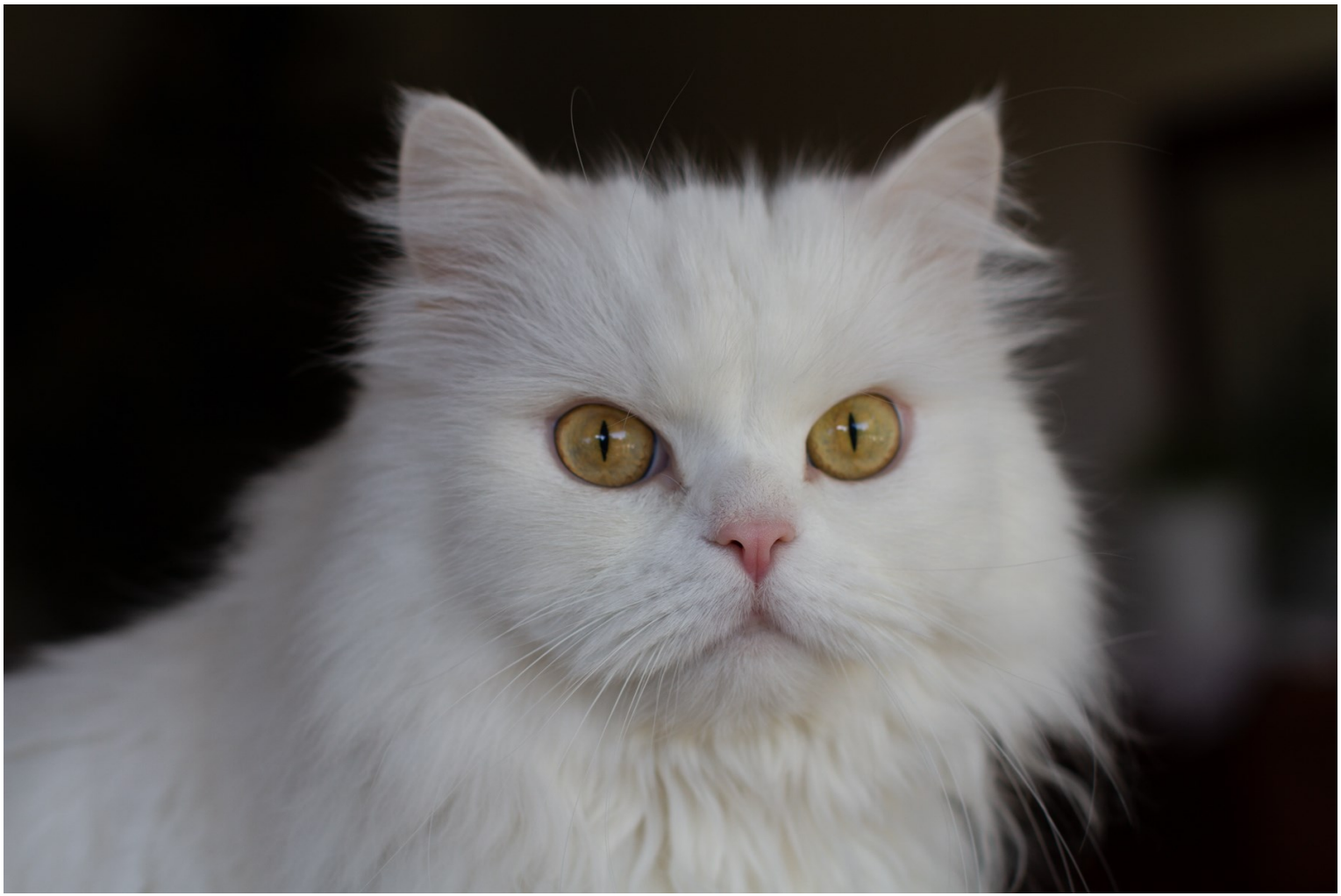

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 9: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 10: Another square class in Python

Overview of this Lecture

6. A section, like a chapter

Some basic itemize

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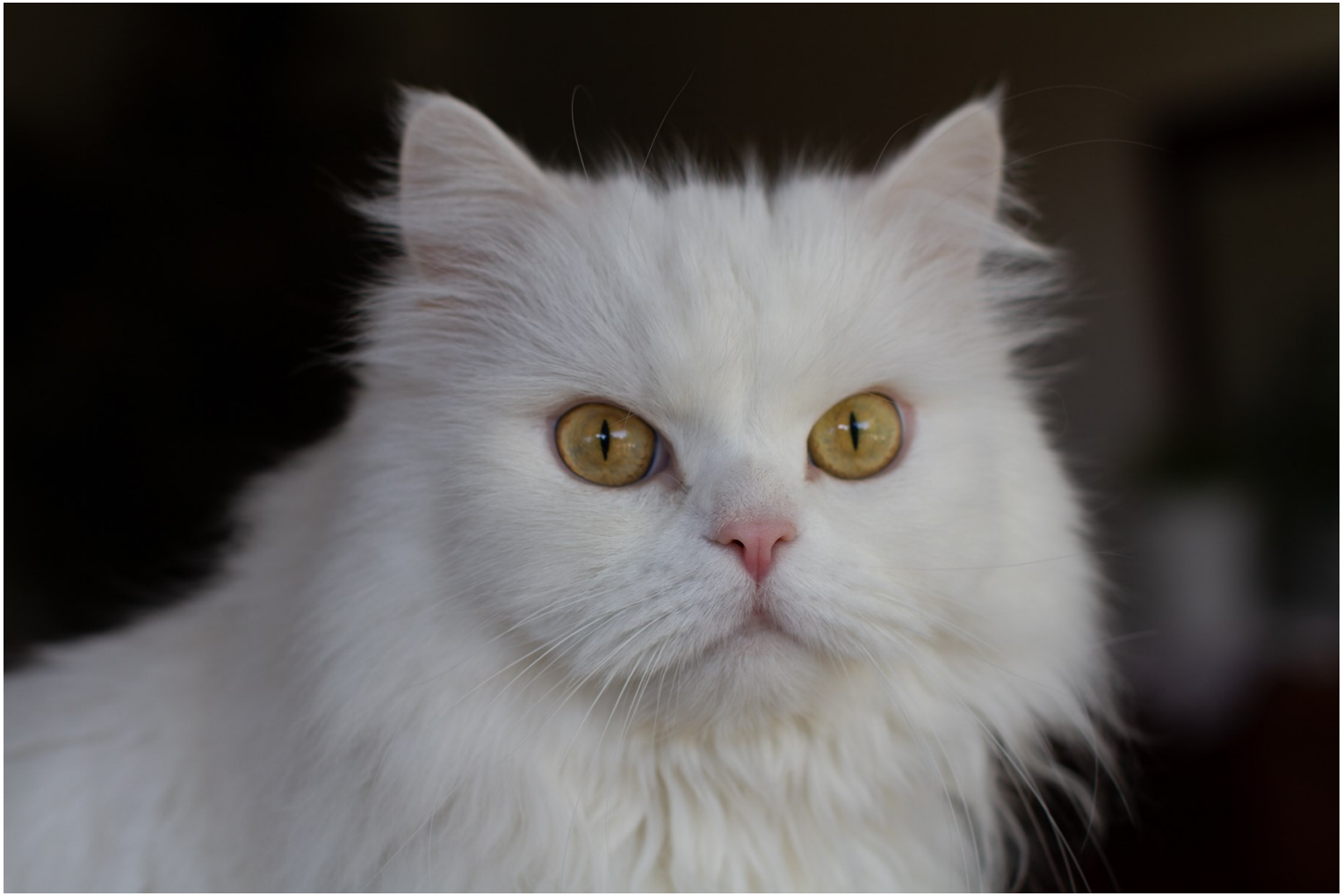

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 11: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 12: Another square class in Python

Overview of this Lecture

7. A section, like a chapter

Some basic itemize

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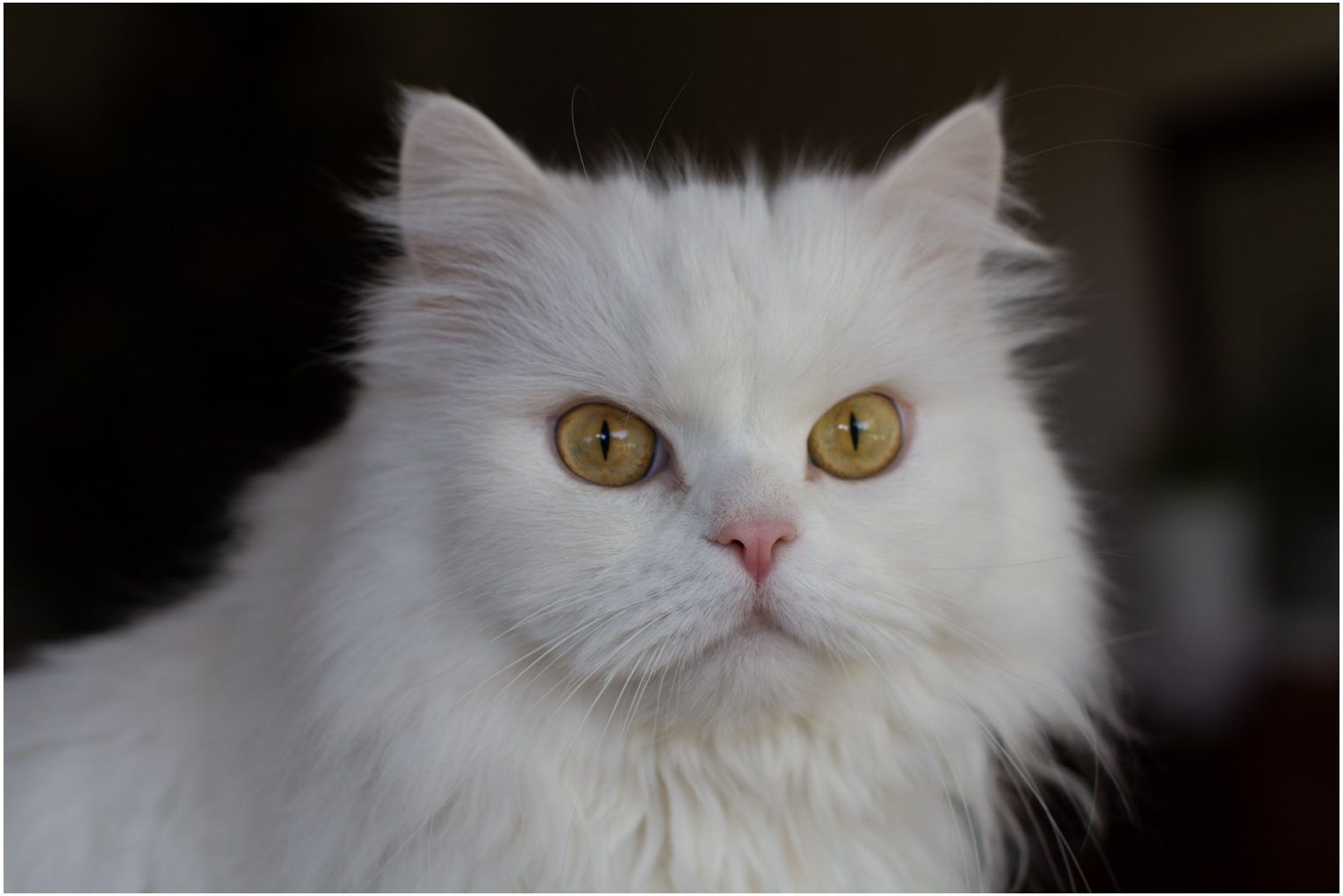

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 13: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 14: Another square class in Python

Overview of this Lecture

8. A section, like a chapter

Some basic itemize

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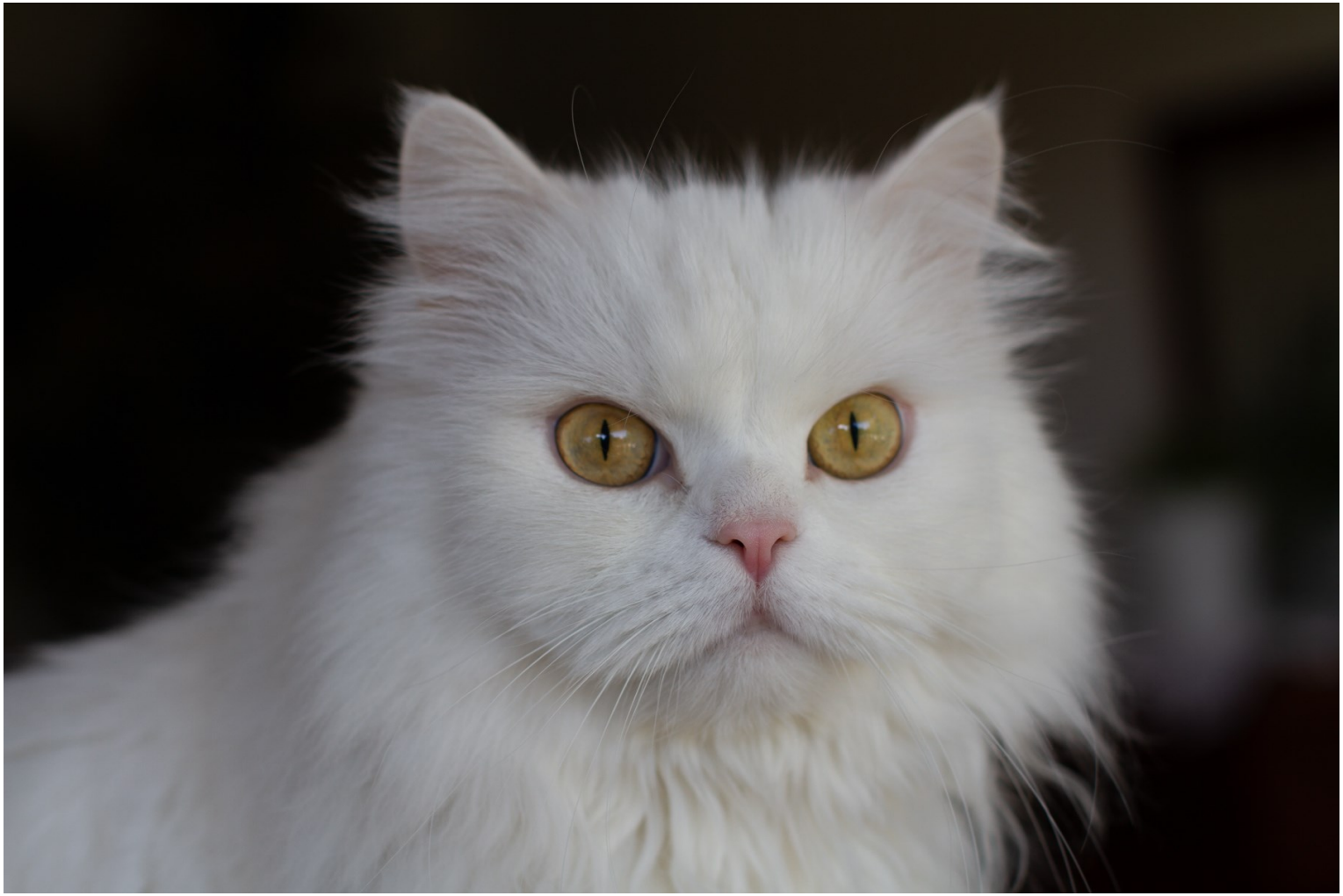

Figure: This is a cat

Some basic Math

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

Some Code Listing

Manual lstlisting env

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

Listing 15: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 16: Another square class in Python

Overview of this Lecture

9. A section, like a chapter

Some basic itemize

Some Subtitle

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

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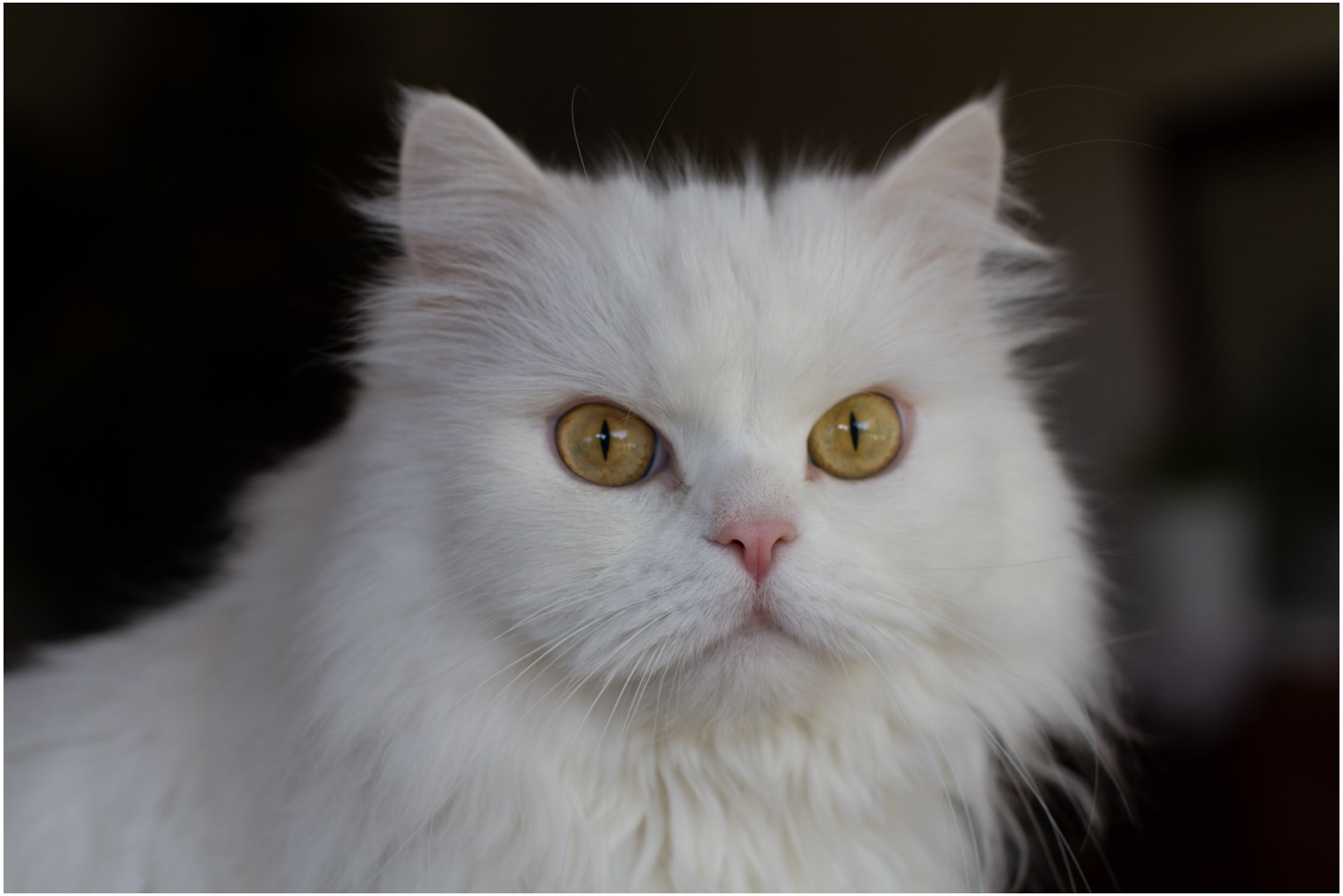

Figure: This is a cat

Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{9}$$

Some Code Listing

Manual lstlisting env

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

Listing 17: A square class in Python

Some Code Listing

Manual lstinputlisting

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

Listing 18: Another square class in Python