CMPT 165
INTRODUCTION TO THE INTERNET AND THE WORLD WIDE WEB

Unit 9
Dynamic Web Programming
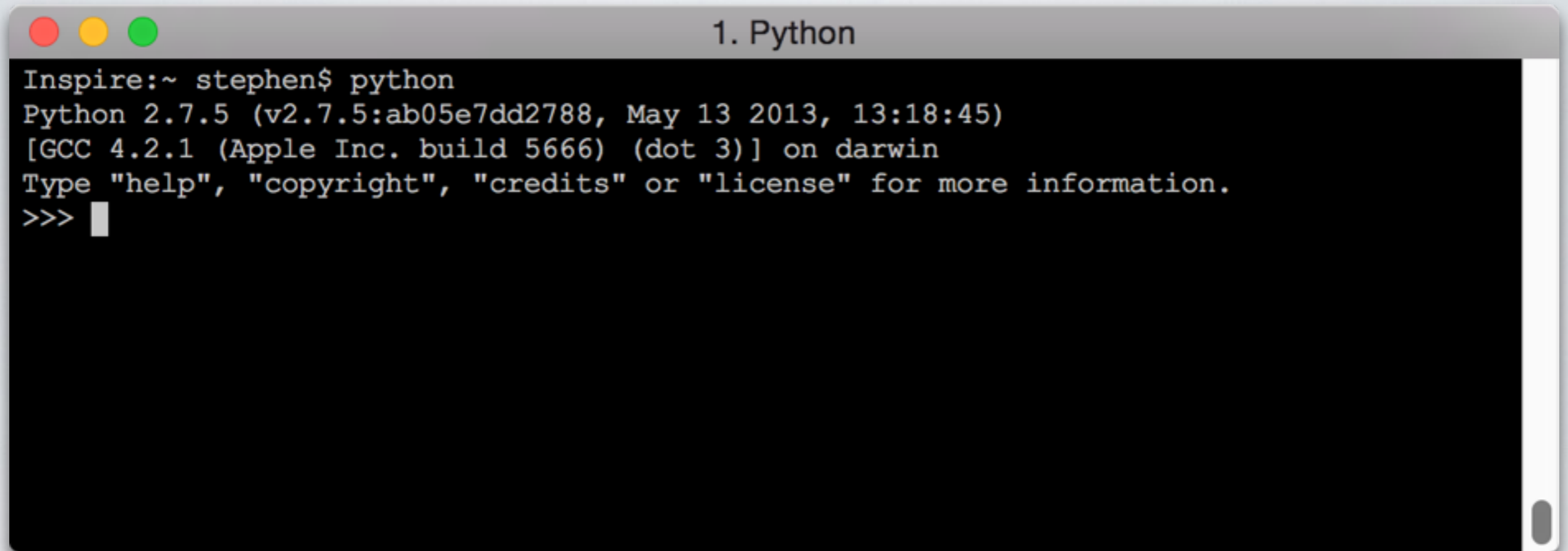
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Learning Objectives

In this unit you will learn the following.

- **Understand** how to program in Python.
- **Understand** how to program in Python.
- No really, **understand** how to program in Python.
- Seriously, **understand** how to program in Python
- **IT'S IMPORTANT!!!**

Topics

1. Python Dictionaries

2. Web-Enabling the Bottles Song

3. Web-Enabled Login Program
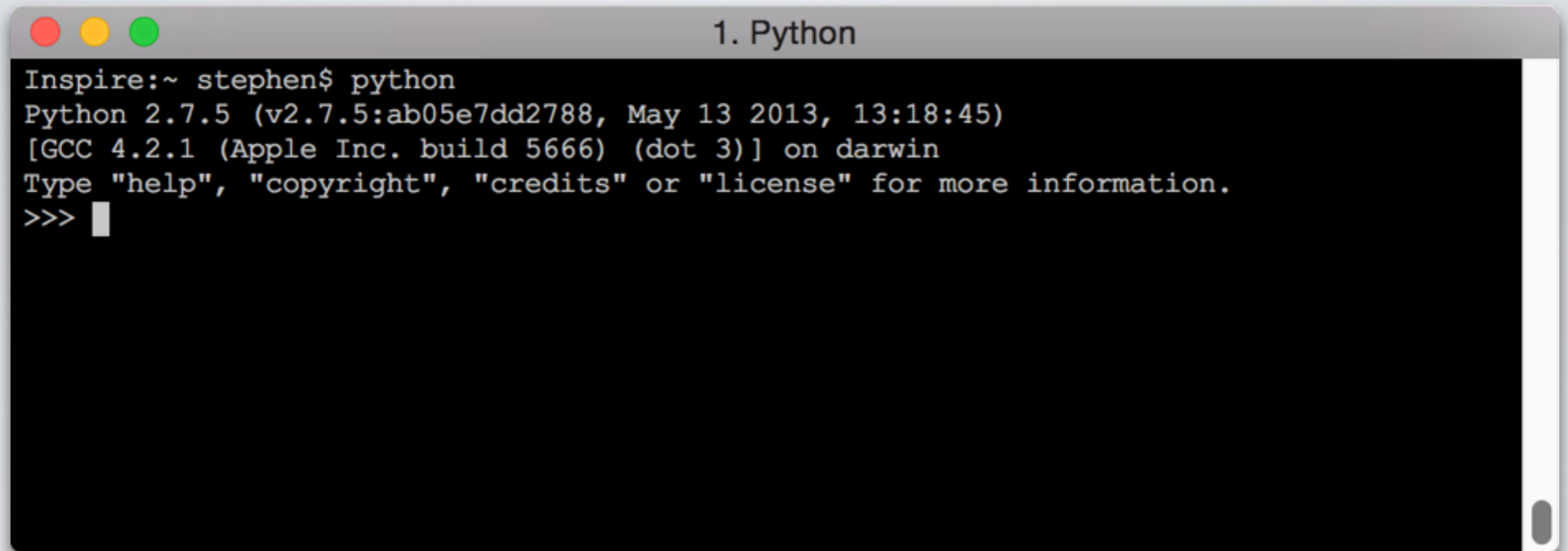
4. Guess the Number Game (if time permits)

Web Bottles Song

```
Inspire:~ stephen$ python
Python 2.7.5 (v2.7.5:ab05e7dd2788, May 13 2013, 13:18:45)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> 
```

Now we convert our command line login demo and make it web-enabled. We will used the form.html and form.py code as a basis for covering 99Bottles.py to web-enabled script called xBottles.py.

Web Login Demo

```
1. Python

Inspire:~ stephen$ python
Python 2.7.5 (v2.7.5:ab05e7dd2788, May 13 2013, 13:18:45)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> ▊
```

Now we convert our command line login demo and make it web-enabled. We will used the form.html and form.py code as a basis for covering login3.py to web-enabled program.

Guess the Number

Write a program able to play the "Guess the number"-game, where the number to be guessed is randomly chosen between 1 and 20. This is how it should work when run in a terminal:

```
Hello! What is your name?
Stephen
Well, Stephen, I am thinking of a number between 1 and 20.
Take a guess.
? 10
Your guess is too low.
Take a guess.
? 15
Your guess is too low.
Take a guess.
? 18
Good job, Stephen! You guessed my number in 3 guesses!
```

Summary

- Learnt how to program in python of the web.

Next Unit: none, time to study for final exam.

QUESTIONS?