home (index.html)          course materials (handouts.html)          submit homework (http://homework-davidbpython.rhcloud.com)          source data (python_data)

sec 1. videos (https://www.youtube.com/playlist?list=PLMSYnjOjlErdbki1Uo7HV0fPiRTYr1LBq)

sec 2. videos (https://www.youtube.com/playlist?list=PLMSYnjOjlErdLFcqSJkuM-yMq-UNodDpo)          forum (http://pyforum.davidbpython.com/)

homework solutions* ()

# Introduction to Python INFO1-CE9980

| Getting Started: see bottom | Exceptions Reference | Homework Submission Guidelines | Code Quality Requirements |
|---|---|---|---|
| | html (supplementary/exceptions.htm)    pdf (supplementary/exceptions.pdf) | html (supplementary/homework_guidelines.htm)    pdf (supplementary/homework_guidelines.pdf) | html (supplementary/code_quality.htm)    pdf (supplementary/code_quality.pdf)    ( |
| | | | Can't find something? Check **Instructions and Reference**, below |

## Class Slides

<u>Note</u>: the slides are presented in two forms: the "Single Topic Pages", each of which cover a specific topic; and the "slideshow", which is a continuous sequence of slides spanning all topics. The material contained in each is the same. In addition, all slides are contained in a single page linked as "All Slides" below -- useful for text searching.

### Session 1 -- Objects, Types, Functions

| | python 2 | python 3 |
|---|---|---|
| Slides | slideshow (slides/slide-01-001-2.html) | slideshow (slides/slide-01-001-3.html) |
| Slides as Single Topic Pages | | |
| **Objects, Object Types, Function Arguments and Return Values** | slide page (slides/handout-01-2.html) | slide page (slides/handout-01-3.html) |
| Homework | Exercises (slides/exercise-01-2.html) Exercise Solutions (slides/exercise_solution-01-2.html) Homework (slides/homework-01-2.html) Homework Discussion (slides/homework_discussion-01-2.html) | Exercises (slides/exercise-01-3.html) Exercise Solutions (slides/exercise_solution-01-3.html) Homework (slides/homework-01-3.html) Homework Discussion (slides/homework_discussion-01-3.html) |

## Session 2 -- Conditionals and Blocks; Object Methods

|  | python 2 | python 3 |
| --- | --- | --- |
| Slides | slideshow (slides/slide-03-001-2.html) | slideshow (slides/slide-03-001-3.html) |
| Slides as Single Topic Pages |  |  |
| **Conditionals** | slide page (slides/handout-03-2.html) | slide page (slides/handout-03-3.html) |
| **Object Methods** | slide page (slides/handout-04-2.html) | slide page (slides/handout-04-3.html) |
|  |  |  |
| Homework | Exercises (slides/exercise-02-2.html)<br>Exercise Solutions (slides/exercise_solution-02-2.html)<br>Homework (slides/homework-02-2.html)<br>Homework Discussion (slides/homework_discussion-02-2.html) | Exercises (slides/exercise-02-3.html)<br>Exercise Solutions (slides/exercise_solution-02-3.html)<br>Homework (slides/homework-02-3.html)<br>Homework Discussion (slides/homework_discussion-02-3.html) |

## Session 3 -- Sequences: Strings, Lists and Files

|  | python 2 | python 3 |
| --- | --- | --- |
| Slides | slideshow (slides/slide-06-001-2.html) | slideshow (slides/slide-06-001-3.html) |
| Slides as Single Topic Pages |  |  |
| **Sequences: Strings, Lists and Files** | slide page (slides/handout-06-2.html) | slide page (slides/handout-06-3.html) |
| **Supplementary Modules: CSV and urllib** | slide page (slides/handout-07-2.html) | slide page (slides/handout-07-3.html) |
|  |  |  |
| Homework | Exercises (slides/exercise-03-2.html)<br>Exercise Solutions (slides/exercise_solution-03-2.html)<br>Homework (slides/homework-03-2.html)<br>Homework Discussion (slides/homework_discussion-03-2.html) | Exercises (slides/exercise-03-3.html)<br>Exercise Solutions (slides/exercise_solution-03-3.html)<br>Homework (slides/homework-03-3.html)<br>Homework Discussion (slides/homework_discussion-03-3.html) |

## Session 4 -- Summarizing Data with Containers

| | python 2 | python 3 |
|---|---|---|
| Slides | slideshow (slides/slide-09-001-2.html) | slideshow (slides/slide-09-001-3.html) |
| Slides as Single Topic Pages | | |
| **Containers: Lists, Sets, Tuples; Functions** | slide page (slides/handout-09-2.html) | slide page (slides/handout-09-3.html) |
| Homework | Exercises (slides/exercise-04-2.html)<br>Exercise Solutions (slides/exercise_solution-04-2.html)<br>Homework (slides/homework-04-2.html)<br>Homework Discussion (slides/homework_discussion-04-2.html) | Exercises (slides/exercise-04-3.html)<br>Exercise Solutions (slides/exercise_solution-04-3.html)<br>Homework (slides/homework-04-3.html)<br>Homework Discussion (slides/homework_discussion-04-3.html) |

## Session 5 -- Dictionaries; Sorting

| | python 2 | python 3 |
|---|---|---|
| Slides | slideshow (slides/slide-11-001-2.html) | slideshow (slides/slide-11-001-3.html) |
| Slides as Single Topic Pages | | |
| **Booleans** | slide page (slides/handout-11-2.html) | slide page (slides/handout-11-3.html) |
| **Dictionaries; Sorting** | slide page (slides/handout-12-2.html) | slide page (slides/handout-12-3.html) |
| Homework | Exercises (slides/exercise-05-2.html)<br>Exercise Solutions (slides/exercise_solution-05-2.html)<br>Homework (slides/homework-05-2.html)<br>Homework Discussion (slides/homework_discussion-05-2.html) | Exercises (slides/exercise-05-3.html)<br>Exercise Solutions (slides/exercise_solution-05-3.html)<br>Homework (slides/homework-05-3.html)<br>Homework Discussion (slides/homework_discussion-05-3.html) |

## Session 6 -- Custom Sorting and Reading Multidimensional Containers

| | python 2 | python 3 |
|---|---|---|
| Slides | slideshow (slides/slide-14-001-2.html) | slideshow (slides/slide-14-001-3.html) |
| Slides as Single Topic Pages | | |

| | | |
|---|---|---|
| **Complex Sorting** | slide page (slides/handout-14-2.html) | slide page (slides/handout-14-3.html) |
| **Reading Multidimensional Structures** | slide page (slides/handout-15-2.html) | slide page (slides/handout-15-3.html) |
| | | |
| Homework | Exercises (slides/exercise-06-2.html) Exercise Solutions (slides/exercise_solution-06-2.html) Homework (slides/homework-06-2.html) Homework Discussion (slides/homework_discussion-06-2.html) | Exercises (slides/exercise-06-3.html) Exercise Solutions (slides/exercise_solution-06-3.html) Homework (slides/homework-06-3.html) Homework Discussion (slides/homework_discussion-06-3.html) |

## Session 7 -- Power Tools for Filtering, Transforming and Sorting; Multis Part 2

| | python 2 | python 3 |
|---|---|---|
| Slides | slideshow (slides/slide-17-001-2.html) | slideshow (slides/slide-17-001-3.html) |
| Slides as Single Topic Pages | | |
| **Power Tools** | slide page (slides/handout-17-2.html) | slide page (slides/handout-17-3.html) |
| | | |
| Homework | Exercises (slides/exercise-07-2.html) Exercise Solutions (slides/exercise_solution-07-2.html) Homework (slides/homework-07-2.html) Homework Discussion (slides/homework_discussion-07-2.html) | Exercises (slides/exercise-07-3.html) Exercise Solutions (slides/exercise_solution-07-3.html) Homework (slides/homework-07-3.html) Homework Discussion (slides/homework_discussion-07-3.html) |

## Session 8 -- Input / Output and Exceptions

| | python 2 | python 3 |
|---|---|---|
| Slides | slideshow (slides/slide-19-001-2.html) | slideshow (slides/slide-19-001-3.html) |
| Slides as Single Topic Pages | | |
| **Input/Output** | slide page (slides/handout-19-2.html) | slide page (slides/handout-19-3.html) |
| **Exceptions** | slide page (slides/handout-20-2.html) | slide page (slides/handout-20-3.html) |

| Homework | Exercises (slides/exercise-08-2.html)<br>Exercise Solutions (slides/exercise_solution-08-2.html)<br>Homework (slides/homework-08-2.html)<br>Homework Discussion (slides/homework_discussion-08-2.html) | Exercises (slides/exercise-08-3.html)<br>Exercise Solutions (slides/exercise_solution-08-3.html)<br>Homework (slides/homework-08-3.html)<br>Homework Discussion (slides/homework_discussion-08-3.html) |

## Session 9 -- Functions, Modules

| | python 2 | python 3 |
| --- | --- | --- |
| Slides | slideshow (slides/slide-22-001-2.html) | slideshow (slides/slide-22-001-3.html) |
| Slides as Single Topic Pages | | |
| **Functions** | slide page (slides/handout-22-2.html) | slide page (slides/handout-22-3.html) |
| **Modules** | slide page (slides/handout-23-2.html) | slide page (slides/handout-23-3.html) |
| Homework | Exercises (slides/exercise-09-2.html)<br>Exercise Solutions (slides/exercise_solution-09-2.html)<br>Homework (slides/homework-09-2.html)<br>Homework Discussion (slides/homework_discussion-09-2.html) | Exercises (slides/exercise-09-3.html)<br>Exercise Solutions (slides/exercise_solution-09-3.html)<br>Homework (slides/homework-09-3.html)<br>Homework Discussion (slides/homework_discussion-09-3.html) |

## Session 10 -- Classes and Next Steps

| | python 2 | python 3 |
| --- | --- | --- |
| Slides | slideshow (slides/slide-25-001-2.html) | slideshow (slides/slide-25-001-3.html) |
| Slides as Single Topic Pages | | |
| **Classes** | slide page (slides/handout-25-2.html) | slide page (slides/handout-25-3.html) |
| **Next Steps** | slide page (slides/handout-26-2.html) | slide page (slides/handout-26-3.html) |
| **Supplementary Modules** | slide page (slides/handout-27-2.html) | slide page (slides/handout-27-3.html) |

| | python 2 | python 3 |
|---|---|---|
| Homework | Exercises (slides/exercise-10-2.html) <br> Exercise Solutions (slides/exercise_solution-10-2.html) <br> Homework (slides/homework-10-2.html) <br> Homework Discussion (slides/homework_discussion-10-2.html) | Exercises (slides/exercise-10-3.html) <br> Exercise Solutions (slides/exercise_solution-10-3.html) <br> Homework (slides/homework-10-3.html) <br> Homework Discussion (slides/homework_discussion-10-3.html) |
| | python 2 | python 3 |
| **All Slides** | All Slides on One Page (slides/handout-onepage00-2.html) | All Slides on One Page (slides/handout-onepage00-3.html) |

**Instructions and Reference**

| | | |
|---|---|---|
| **Syllabus** | pdf (syllabus/INFO1-CE-9990-Sp17-Introduction-to-Python.htm)    htm (syllabus/INFO1-CE-9990-Introduction-to-Python.htm) | |
| **Homework Submission** | pdf (supplementary/homework_guidelines.pdf)    htm (supplementary/homework_guidelines.htm) | |
| **Code Quality Requirements** | pdf (supplementary/code_quality.pdf)    htm (supplementary/code_quality.htm) | |
| **Lab Setup** | pdf (supplementary/setting_up_lab.pdf)    htm (supplementary/setting_up_lab.htm) | |
| **Getting Started Writing and Running Programs (Mac / Unix)** | pdf (supplementary/getting_started_mac.pdf)    htm (supplementary/getting_started_mac.htm) | |
| **Getting Started Writing and Running Programs (Windows)** | pdf (supplementary/getting_started_windows.pdf)    htm (supplementary/getting_started_windows.htm) | |