**Agenda**

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| ***Place: #1 LeConte (Berkeley Campus)***  *Be sure to check out the*[*most recent announcements*](http://register.pythonbootcamp.info/announcements)*, too.*  **Day 1 - August 20 (Monday)**   | **Time** | **What** | **Who** | **Slides** | **Docs/Code** | | --- | --- | --- | --- | --- | | 8:05 - 8:25 | Registration/Checkin |  |  |  | | 8:30 | **Python Introduction** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/00_Introduction/day_1_intro.pdf?raw=true) |  | | 9-10 | **Basic Training** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/01_BasicTraining/day_1_basic_training.pdf?raw=true) | [archive (.tar.gz)](http://register.pythonbootcamp.info/agenda/basic_training_files.tgz?attredirects=0)   [nb (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/01_BasicTraining/basic_training.ipynb)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/01_BasicTraining/basic_training.ipynb) | | 10 -10:30 | breakout 1 |  |  |  | | 10:30 -10:40 | go over breakout #1 solutions | Brad Cenko |  | [solution](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/01_BasicTraining/breakout1.py) | | 10:40 -11:40 | **Advanced data structures** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/02_AdvancedDataStructures/day1_data_structures.pdf?raw=true) | [nb (PDF)](https://github.com/profjsb/python-bootcamp/blob/master/DataFiles_and_Notebooks/02_AdvancedDataStructures/data_structures.pdf?raw=true)  [nb (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/02_AdvancedDataStructures/data_structures.ipynb)  [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/02_AdvancedDataStructures/data_structures.ipynb) | | 11:40 -12:10 | breakout #2 |  |  | [airline.py](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/02_AdvancedDataStructures/airline.py) | | 12:10 -12:40 | lunch |  |  |  | | 12:40 -12:50 | go over breakout #2 solutions | Chris Klein |  | [breakout2.py](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/02_AdvancedDataStructures/breakout2.py) | | 12:50 -01:50 | **Functions & Modules** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/03_FunctionsAndModules/day1_modules_def_io.pdf?raw=true) | [archive (.tar.gz)](http://register.pythonbootcamp.info/agenda/functions_files.tgz?attredirects=0) | | 1:50 -2:20 | breakout #3 |  |  |  | | 2:20 -2:30 | go over breakout #3 | Adam Morgan |  | [age.py](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/03_FunctionsAndModules/age.py) [age1.py](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/03_FunctionsAndModules/age1.py) [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Breakouts/Solutions/03_FunctionsAndModules/breakout3.pdf?raw=true) | | 2:30 -3:20 | **ipython/notebook introduction** | Paul Ivanov |  | [notebook directory](https://github.com/profjsb/python-bootcamp/tree/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction)  -  [tour](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction/00_notebook_tour.ipynb)  - [intro](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction/01_notebook_introduction.ipynb)  - [pauls intro](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction/ipython-tutor.ipynb)   [pauls intro (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction/ipython-tutor.ipynb)    [breakout (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction/breakout.ipynb)    [breakout (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/04_IPythonNotebookIntroduction/breakout.ipynb)  Note: to use the notebooks, save the "raw" file (.ipynb). | | 3:20 -3:40 | coffee/breakout #4 |  |  | [solution(view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/04_IPythonNotebookIntroduction/breakout_solution.ipynb)  [solution (raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/04_IPythonNotebookIntroduction/breakout_solution.ipynb) | | 3:40 -4:30 | **Numpy (arrays)/matplotlib Basic Plotting** | Brad Cenko | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/05_NumpyMatplotlib/Numpy+Matplotlib.pdf?raw=true) | [nb (PDF)](https://github.com/profjsb/python-bootcamp/blob/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/Numpy+Matplotlib.nb.pdf?raw=true)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/Numpy+Matplotlib.ipynb) version 3 (ipython >= 0.13):   [nb (v3 raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/Numpy+Matplotlib.ipynb) version 2 (EPD distro):   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/Numpy+Matplotlib.v2.ipynb) | | 4:30 -4:50 | breakout #5 |  |  | [nb (PDF)](https://github.com/profjsb/python-bootcamp/blob/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/trapezoid_rule.pdf?raw=true)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/trapezoid_rule.v3.ipynb) version 3 (ipython >= 0.13):   [nb (v3 raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/trapezoid_rule.v3.ipynb) version 2 (EPD distro):   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/05_NumpyMatplotlib/trapezoid_rule.v2.ipynb) | | 4:50 | start homework |  | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Breakouts/Questions/monday_homework1.pdf?raw=true) | data file:   [trends.csv](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Questions/trends.csv) |   **Day 2 - August 21 (Tuesday)**   | **Time** | **What** | **Who** | **Slides** | **Docs/Code** | | --- | --- | --- | --- | --- | | 8:15 -8:45 | review of homework (optional) | Erik Petigura |  | **Breakout 5 Solutions:**    [nb (PDF)](https://github.com/profjsb/python-bootcamp/blob/master/Breakouts/Solutions/05_NumpyMatplotlib/trapezoid_rule_solution.pdf?raw=true)    [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/05_NumpyMatplotlib/trapezoid_rule_solution.v3.ipynb) version 3 (ipython >= 0.13):   [nb (v3 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/05_NumpyMatplotlib/trapezoid_rule_solution.v3.ipynb) version 2 (EPD distro):   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/05_NumpyMatplotlib/trapezoid_rule_solution.v2.ipynb)  **Homework Solutions:**   [nb (PDF)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/Homework_01/HomeworkSolutionI.pdf)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/Homework_01/HomeworkSolutionI.v3.ipynb) version 3 (ipython >= 0.13):   [nb (v3 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/Homework_01/HomeworkSolutionI.v3.ipynb) version 2 (EPD distro):   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/Homework_01/HomeworkSolutionI.v2.ipynb) | | 8:45 -9:45 | **Advanced Strings & File IO** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/06_AdvancedStrings/day_2_advanced_strings.pdf?raw=true) | [nb (PDF)](http://register.pythonbootcamp.info/agenda/advanced_strings.pdf?attredirects=0)                              [nb (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/06_AdvancedStrings/advanced_strings.ipynb)    [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/06_AdvancedStrings/advanced_strings.ipynb)    [checkemail.py](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/06_AdvancedStrings/checkemail.py)    [tabbify\_my\_csv.py](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/06_AdvancedStrings/tabbify_my_csv.py) | | 9:45 -10:05 | breakout #6 |  |  | [elie.info](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/06_AdvancedStrings/elie.info) | | 10:05 -10:10 | go over breakout #6 | Isaac Shivvers |  | [Solution (py)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/06_AdvancedStrings/Breakout6Solution.py)    [nb (PDF)](https://github.com/profjsb/python-bootcamp/blob/master/Breakouts/Solutions/06_AdvancedStrings/Breakout6Solution.pdf?raw=true)    [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/06_AdvancedStrings/Breakout6Solution.v3.ipynb)      version 3 (ipython >= 0.13):   [nb (v3 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/06_AdvancedStrings/Breakout6Solution.v3.ipynb) version 2 (EPD distro):   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/06_AdvancedStrings/Breakout6Solution.v2.ipynb) | | 10:10 -10:55 | **Advanced Stuff** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/07_AdvancedInteractions/day2_advanced_interactions.pdf?raw=true) | [nb (PDF)](https://github.com/profjsb/python-bootcamp/blob/master/DataFiles_and_Notebooks/07_AdvancedInteractions/advanced_interactions.pdf?raw=true)   [nb (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/07_AdvancedInteractions/advanced_interactions.ipynb)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/07_AdvancedInteractions/advanced_interactions.ipynb) | | 10:55 - 11:15 | breakout #7 |  |  |  | | 11:15 - 11:20 | go over breakout #7 |  |  | [Solution (py)](http://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/07_AdvancedStuff/Breakout7Solution.py)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/07_AdvancedStuff/Breakout7Solution.ipynb)   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/07_AdvancedStuff/Breakout7Solution.ipynb) | | 11:20 - 12:10 | **Object oriented programming (I)** | Joey Richards | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/08_OOPI/Object_Oriented_I.pdf?raw=true) |  | | 12:10 - 1 | lunch |  |  |  | | 1:00 - 1:05 |  |  |  |  | | 1:05 - 2:00 | **Object oriented programming (II)** | Josh Bloom | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/09_OOPII/day2_oopII.pdf?raw=true) | [nb (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/09_OOPII/oopII.ipynb)  [v3]    [nb (raw)](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/09_OOPII/oopII.v2.ipynb)  [v2]     [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/09_OOPII/oopII.ipynb)  files: [.tgz format](http://register.pythonbootcamp.info/agenda/oop.tgz?attredirects=0) | | 2:00 - 2:30 | breakout #8 -- breakout #9 |  |  | [Solution (py)](http://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/08_OOPI/OOP_I_solutions.py)   [nb (view)](http://nbviewer.ipython.org/urls/raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/08_OOPI/OOP_I_solutions.ipynb)   [nb (v2 raw)](https://raw.github.com/profjsb/python-bootcamp/master/Breakouts/Solutions/08_OOPI/OOP_I_solutions.ipynb) | | 2:30 - 2:40 | go over breakout #9 |  |  |  | | 2:40 - 3:40 | **Development (I) [Git]** | Henrik Brink | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/10_GitDevelopment/DevelopmentWithGit.pdf?raw=true) | [github](https://github.com/brinkar/bloomdemo) | | 3:40 - 4:00 | breakout #10 |  |  |  | | 4:00 - 4:10 | go over breakout #10 |  |  |  | | 4:10 | start homework |  | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Homeworks/Homework_02/homework2.pdf?raw=true) | [solution (raw .py file)](https://github.com/profjsb/python-bootcamp/raw/master/Homeworks/Homework_02/hw_2_solutions.py) |   **Day 3 - August 22 (Wednesday)**   | **Time** | **What** | **Who** | **Slides** | **Docs/Code** | | --- | --- | --- | --- | --- | | 8:30 - 9 | review of homework (optional) | Isaac Shivvers |  |  | | 9 -10 | **Scientific Programming (I)** | Berian James | [(PDF)](https://github.com/profjsb/python-bootcamp/raw/master/Lectures/11_ScientificProgrammingI/ScientificProgrammingI.pdf) | [nb (raw v3)](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/ScientificProgrammingI.ipynb) [nb (raw v2)](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/ScientificProgrammingI.v2.ipynb)  [nb (view)](http://nbviewer.ipython.org/urls/github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/ScientificProgrammingI.ipynb)  [Fortran code](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/example.f90) [Matlab data](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/testbox.mat)  [wiggles\_Z.dat](https://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/wiggleZ_DR1_z.dat) | | 10-10:30 | breakout #11 |  | SciPy Data Challenges  [Data file](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SP1_P3_data.txt) | Data challenge 1 ([v2](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SciPyProblems_1.v2.ipynb)) ([v3](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SciPyProblems_1.ipynb)) Data challenge 2 ([v2](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SciPyProblems_2.v2.ipynb)) ([v3](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SciPyProblems_2.ipynb)) Data challenge 3 ([v2](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SciPyProblems_3.v2.ipynb)) ([v3](https://github.com/profjsb/python-bootcamp/raw/master/DataFiles_and_Notebooks/11_ScientificProgrammingI/SciPyProblems_3.ipynb)) | | 10:30 - 10:40 | go over breakout #11 |  |  |  | | 10:40 - 11:40 | **Development (II) Testing** | Paul Ivanov | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/12_Testing/ivanov2012-08-22.pdf?raw=true) | [pauls tarball (.tgz)](http://register.pythonbootcamp.info/agenda/testing.tgz?attredirects=0) | | 11:40 - noon | breakout #12 |  | - [buggy.py](http://sites.google.com/site/pythonbootcamp2010/lectures/buggy.py?attredirects=0) (fix with **PDB**)   - **Nosetests & doctests:**    Here's a broken version of the homework2 answer from last night: [dirty\_change.py](http://sites.google.com/site/pythonbootcamp2010/lectures/dirty_change.py?attredirects=0)   Your job is to fix it!    1. on the command line:  nosetests -vv dirty\_change.py  2. hack that file until you get a clean set of tests  3. on the command line:            nosetests -vv --with-doctest --doctest-tests dirty\_change.py |  | | noon -12:10 | go over breakout #12 |  |  |  | | 12:10 - 1 | lunch |  |  |  | | 1 - 2 | **Advanced IPython (R, parallel, Amazon…)** | Henrik Brink |  | [Lecture notebook (view)](http://nbviewer.ipython.org/urls/github.com/profjsb/python-bootcamp/raw/master/Lectures/13_AdvancedIPython/Advanced%2520IPython%2520Notebook.ipynb) [Lecture notebook (v3)](https://github.com/profjsb/python-bootcamp/raw/master/Lectures/13_AdvancedIPython/Advanced%20IPython%20Notebook.ipynb)  many of the magic commands work only in IPython 0.13, but here's a version of the notebook that will open in 0.12 [Lecture notebook (v2)](https://raw.github.com/profjsb/python-bootcamp/master/Lectures/13_AdvancedIPython/Advanced%20IPython%20Notebook.v2.ipynb) | | 2 - 2:30 | breakout #13 |  |  | [Breakout ipynb (v3)](https://github.com/profjsb/python-bootcamp/raw/master/Breakouts/13_AdvancedIPython/Advanced%20IPython%20Breakout.ipynb) [Breakout ipynb (view)](http://nbviewer.ipython.org/urls/github.com/profjsb/python-bootcamp/raw/master/Breakouts/13_AdvancedIPython/Advanced%2520IPython%2520Breakout.ipynb) | | 2:30 - 2:40 | go over breakout #13 |  |  | [Solution ipynb (v3)](https://github.com/profjsb/python-bootcamp/raw/master/Breakouts/13_AdvancedIPython/Advanced%20IPython%20Breakout%20Solutions.ipynb) [Solution ipynb (view)](http://nbviewer.ipython.org/urls/github.com/profjsb/python-bootcamp/raw/master/Breakouts/13_AdvancedIPython/Advanced%2520IPython%2520Breakout%2520Solutions.ipynb) | | 2:40 - 3:00 | **Scientific Programming (II)** | James Gao | [PDF](http://register.pythonbootcamp.info/agenda/scicomp2.pdf?attredirects=0) | [ipynb (raw v2)](http://register.pythonbootcamp.info/agenda/scicomp2.ipynb?attredirects=0)  [Data file](http://register.pythonbootcamp.info/agenda/neurons.hf5?attredirects=0) | | 3:00 - 4:00 | **Whetting your appetite** | Brad Cenko | [PDF](https://github.com/profjsb/python-bootcamp/blob/master/Lectures/15_Appetite/Appetite.pdf?raw=true) | [Module Methods (py)](http://raw.github.com/profjsb/python-bootcamp/master/DataFiles_and_Notebooks/15_Appetite/appetite.py) | | 4:00 - 4:30 | **What’s next?** | Josh Bloom |  |  | |