

- Please read this Piazza post!

Week 8 Class Material

- Lecture 27: Special Topics I (Programming Languages) [capture](#) [slides](#)
- Lecture 28: Special Topics II (Machine Learning) [capture](#)
- Lecture 29: Navigating Berkeley [capture](#) [slides](#)

Week 8 Resources

- Rachel's Streams Guide (Spring 2019)
- Ashley & Mirnalini's Streams Slides (Fall 2017)
- Minilecture: Streams Intro (Fall 2017)



Resource Search

Search for terms like "recursion", "homework 3", or "practice".

Search for resources or posts on Piazza

Week	Date	Lecture			Textbook	Lab and Discussion Links		Homework & Project
1	Mon 6/22	<a href="#">Intro</a> <a href="#">video</a> <a href="#">slides</a> <a href="#">capture</a> <a href="#">01.py</a>				Lab 00: Getting Started <a href="#">Fri 6/28</a>		
	Tue 6/23	<a href="#">Functions</a> <a href="#">video</a> <a href="#">full</a> <a href="#">1pp</a> <a href="#">8pp</a> <a href="#">02.py</a>	<a href="#">Ch. 1.1</a>	<a href="#">Ch. 1.2</a>		Disc 00: Getting Started		HW 01: Variables & Functions, Control <a href="#">02.py</a>
	Wed 6/24	<a href="#">Control</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">4pp</a> <a href="#">32.py</a>	<a href="#">Ch. 1.3</a>	<a href="#">Ch. 1.4</a> <a href="#">Ch. 1.5</a>		Lab 01: Variables & Functions, Control <a href="#">03.py</a>		
	Thu 6/25	<a href="#">Higher-Order Functions</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">4pp</a> <a href="#">04.py</a>				Disc 01: Environment Diagrams, Control, Self Reference		Hog <a href="#">04.py</a>
2	Mon 6/28	<a href="#">Environment Diagrams</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">05.py</a>	<a href="#">Ch. 1.6</a>			Lab 02: Higher-Order Functions, Lambda Expressions, Self Reference <a href="#">05.py</a>		
	Tue 6/30	<a href="#">Recursion</a> <a href="#">video</a> <a href="#">capture</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">06.py</a>	<a href="#">Ch. 1.7</a>			Disc 02: Higher-Order Functions		Hog Contest <a href="#">06.py</a>
	Wed 7/1	<a href="#">Tree Recursion</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">07.py</a>	<a href="#">Ch. 1.7</a>			Lab 03: Recursion, Tree Recursion <a href="#">07.py</a>		HW 03: Higher-Order Functions, Recursion <a href="#">08.py</a>
	Thu 7/2	<a href="#">Diagnostic Quiz (6-7:15pm PDT)</a> <a href="#">video</a>						
3	Mon 7/6	<a href="#">Sequences &amp; Data Abstraction</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">08.py</a>	<a href="#">Ch. 2.1</a> <a href="#">Ch. 2.2</a> <a href="#">Ch. 2.3</a>			Lab 04: Python Lists, Data Abstraction <a href="#">08.py</a>		
	Tue 7/7	<a href="#">Functional Decomposition &amp; Debugging</a> <a href="#">video</a> <a href="#">capture</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">09.py</a>				Disc 04: Recursion, Tree Recursion, Python Lists		
	Wed 7/8	<a href="#">Trees</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">10.py</a>	<a href="#">Ch. 2.3</a>			Lab 05: Python Lists, Trees <a href="#">10.py</a>		HW 04: Data Abstraction, Trees <a href="#">11.py</a>
	Thu 7/9	<a href="#">Mutable Sequences</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">11.py</a>	<a href="#">Ch. 2.4</a>			Disc 05: Python Lists, Trees, Mutability		
4	Mon 7/13	<a href="#">Mutable Functions</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">12.py</a>	<a href="#">Ch. 2.4</a>			Lab 06: Nonlocal, Mutability <a href="#">12.py</a>		
	Tue 7/14	<a href="#">Midterm Review</a> <a href="#">capture</a>	<a href="#">Ch. 4.2</a>			Lab 07: Midterm Review <a href="#">13.py</a>		
	Wed 7/15	<a href="#">Iterators &amp; Generators</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">14.py</a>				Disc 06: Nonlocal, Midterm Review		HW 05: Nonlocal, Iterators & Generators <a href="#">15.py</a>
	Thu 7/16	No Lecture Midterm(5:00pm-8:00pm PDT) <a href="#">Practice</a> <a href="#">Practice Solutions</a> <a href="#">skeleton</a> <a href="#">solution</a> <a href="#">pdf</a>						
5	Mon 7/20	<a href="#">Objects</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a> <a href="#">15.py</a>	<a href="#">Ch. 2.5</a>			Lab 08: Object-Oriented Programming <a href="#">15.py</a>		
	Tue 7/21	<a href="#">Inheritance</a> <a href="#">video</a> <a href="#">capture</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">16.py</a>	<a href="#">Ch. 2.5</a>			Disc 08: Iterators & Generators, Object-Oriented Programming		
	Wed 7/22	<a href="#">Linked Lists &amp; Trees</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">17.py</a>	<a href="#">Ch. 2.9</a>			Lab 09: Linked Lists, Mutable Trees <a href="#">17.py</a>		HW 06: Object-Oriented Programming, Linked Lists, Trees <a href="#">18.py</a>
	Thu 7/23	<a href="#">Interfaces</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a> <a href="#">18.py</a>	<a href="#">Ch. 2.7</a>			Disc 09: Linked Lists, Trees		Ants <a href="#">19.py</a>
6	Mon 7/27	<a href="#">Scheme</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a>	<a href="#">Ch. 3.1</a> <a href="#">Ch. 3.2</a>			Lab 10: Scheme, Scheme Lists <a href="#">20.py</a>		
	Tue 7/28	<a href="#">Interpreters</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a>	<a href="#">Ch. 3.5</a>			Disc 10: Scheme, Scheme Lists		
	Wed 7/29	<a href="#">More Scheme</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a>	<a href="#">Ch. 3.5</a>			Lab 11: Interpreters <a href="#">21.py</a>		HW 07: Scheme, Tail Recursion, Macros <a href="#">22.py</a>
	Thu 7/30	<a href="#">Macros</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a>	<a href="#">Ch. 3.5</a>			Disc 11: Tail Recursion, Macros		Scheme <a href="#">23.py</a> Scheme Challenge Version <a href="#">24.py</a>
7	Mon 8/3	<a href="#">Streams</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a>				Lab 12: Macros, Streams <a href="#">25.py</a>		
	Tue 8/4	<a href="#">Declarative Programming I</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a> <a href="#">24.sql</a>	<a href="#">Ch. 4.3</a>			Disc 12: Streams		Scheme Contest <a href="#">26.py</a>
	Wed 8/5	<a href="#">Declarative Programming II</a> <a href="#">video</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">9pp</a> <a href="#">25.sql</a>	<a href="#">Ch. 4.3</a>			Lab 13: SQL <a href="#">27.py</a>		HW 08: Streams, SQL <a href="#">28.py</a>
	Thu 8/6	<a href="#">Final Review</a> <a href="#">video</a> <a href="#">capture</a> <a href="#">1pp</a> <a href="#">6pp</a> <a href="#">26.py</a>				Disc 13: SQL		
8	Mon 8/10	<a href="#">Special Topics I (Programming Languages)</a> <a href="#">capture</a> <a href="#">slides</a>				Lab 14: Final Review <a href="#">29.py</a>		HW 09: Final Review (Optional) <a href="#">30.py</a>
	Tue 8/11	<a href="#">Special Topics II (Machine Learning)</a> <a href="#">capture</a>				Disc 14: Final Review		Scheme Gallery <a href="#">31.py</a>
	Wed 8/12	<a href="#">Navigating Berkeley</a> <a href="#">capture</a> <a href="#">slides</a>						
	Thu 8/13	<a href="#">Final (time TBD)</a>						