Lists and Dictionaries	
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Assessment D. Hanne	
Arrays and Python	
Annual control and a second black of the Bulletin Bulletin	
Arrays are not accessible by default in Python	
Modules can be used for Arrays	
Sets - mainly Lists and Dictionaries are used like Arrays	
Lists are like Number Indexed Arrays	
Dictionaries are like Named Key Arrays	
Getting even basic math functions like Average require a bit of code	
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Importance of Data Formatting	
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Parsing Files	
• XML	
CSV files	
Example = fake-data.txt	

Lists • my_list = [8,9,77,3,2] • my_list = ['bob', 'Tim', 'sue', 'frank'] • my_list = ['bob', 22, 'large', True] • print(my_list[0]) • Example = list.py **List Functions** Functions - Like a tiny app max() min() len() Not an Array, No Average or Real Math Functions • For an Average use a For loop to add all values then divide by length of list • Example = list-function.py **List Methods** Methods - modify variables sort() • reverse() • append() pop() remove() • Example = list-method.py

Dictionaries	
 my_dict = {'name':'bob','age':19,'size':'large','disclaimer':True} my_dict['name'] Example = dict.py 	
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Dictionary Methods	
• keys()	
values()items()	
update()pop()	
Example = dict-function.py	
	I
For Loops	
for x in my_list:for key, value in my_dict.items():	
Example = for-loop.py	

Nested Lists and Dictionaries	
 Lists and Dictionaries can contain Lists and Dictionaries Example = nested.py 	
While Loop	
Code loops until condition is met	
 Permanent Loop - Make sure the condition will be met while x < 10: 	
 while x < 10: Example = while.py	
While True:	
while True:	
 Goes forever unless you have a break Example = while-true.py 	
Example - Wille (196.p)	

Labs	
lab-append.pylab-search.pylab-repayment.py	