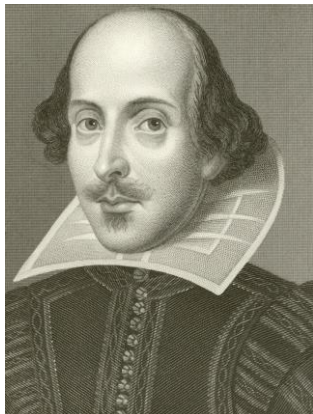


Wk	Focus & Medium	Weekly Topic & Assignment																		
5 9/26 - 10/1	<div>Focus Overview</div> <div>Python 101 coding</div> <div><div>shakespeare corpus (git)</div><div>Assignment</div></div>	<p>Goal: build competence with Python built-in objects to manipulate data like working in a spreadsheet application.</p> <p>Why? Spreadsheets are 3rd tier objects versus primary information formats like databases and data objects such as Python’s list, string, tuple, dictionary, and sets. And pandas series and dataframe objects. Why Python?</p> <ul style="list-style-type: none">o Its versatile, used across industries, and provides easy to learn data ETL (extract-translate-load), analysis, and reporting.o Manipulating data in objects make you more agile and confident grab.get data from anywhere.o Developing transposition skills with Python’s data objects gives you the basic means to always work with any data in the futureo These tools will help you perform system design and analysis with agility and deftness.o This is your <u>new</u> HAMMER. Now let’s go frame it. <p>The remainder of the course will use the following toolkit to perform system analysis & design exercises.</p> <div><div>~~ Course System Design & Analysis Tooling ~~</div><table><tr><th>System Planning & Design</th><th>Class Python Codebook</th></tr><tr><td>a) customer requirements outline with level 1 system diagramming methods (IDEF0, swimlanes, SWOT, etc)</td><td>1) data objects (list,string..)</td></tr><tr><td>b) architect a system data flow diagram (DFD)</td><td>2) user defined objects</td></tr><tr><td>b.1) key transactions</td><td>3) iterators</td></tr><tr><td>b.2) key storage tables</td><td>4) conditionals</td></tr><tr><td></td><td>5) functions / methods</td></tr><tr><td></td><td>6) transposition</td></tr><tr><td></td><td>7) pandas dataframes\series</td></tr><tr><td></td><td>8) ETL</td></tr></table></div> <p>Preparation for our Shakespeare Assessment (given 9/30) As discussed in class, you will be applying your learnings to the Shakespeare corpus by importing the data, performing transformations, and using iterations and conditionals to report on # characters, words, and # plays.</p> <p>Tasks:</p> <ul style="list-style-type: none">• The zipper codebook has been updated <09.24.22>• Please work through the code examples again for 9/21 class• <u>New</u>: repeat 1 page of ETL, object, report code tasks<ul style="list-style-type: none">o (due 9/30,posting shortly)	System Planning & Design	Class Python Codebook	a) customer requirements outline with level 1 system diagramming methods (IDEF0, swimlanes, SWOT, etc)	1) data objects (list,string..)	b) architect a system data flow diagram (DFD)	2) user defined objects	b.1) key transactions	3) iterators	b.2) key storage tables	4) conditionals		5) functions / methods		6) transposition		7) pandas dataframes\series		8) ETL
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