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COMPREHENSIONS Comprehensions are a quick way of generating or altering Lists, Sets or Dictionaries. They provide a powerful range of functionality using a single line of code.	List [List of Values] Set {Unique Values} Dictionary {Label: Set}
<pre>.ist Comprehensions .et's imagine we had a list (or array) of str    string_array = ["234", "75</pre>	rings, as follows: 5", "331", "73", "5"]
<pre>f we wanted to take each element and cc Output1 = [int(num) for num in</pre>	<pre>vert them into integers, we could do: string_array] / umber in the list</pre>
f we wanted to only convert strings less t output2 = [int(num) for num in Convert num to integer for each n Which would give us:	<pre>han three characters long: string_array if len(num) &lt; 3] / / ////////////////////////////////</pre>
Get Comprehensions         A set is like a list but with no duplicate entropy         constructor to convert a list into a set, but         f-authors = {b.author for b in         Add unique author	<pre>tries. We create a set is to use the set() t we can also use a set comprehension.     books if b.genre == 'fantasy'}     //     //     //     //     // </pre>
Add dhique dathor - for each be	ok in ise in genie attribute is fantasy
Nhich would give us the following output {'Pratchett', 'Le Guin', 'Tr	(removing any duplicate values): arner' }
Which would give us the following output { 'Pratchett', 'Le Guin', 'Tre Dictionary Comprehensions A dictionary is a list that has a label at the convert it into a dictionary using a diction f-titles = {b.title: b for b i Add label set for each	<pre>start of it, we can use an existing dataset and ary comprehension.: n books if b.genre == 'fantasy'} / book in list if genre attribute is "fantasy"</pre>

