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7.1.2 Pyplot and Object-Oriented Interfaces

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When using `matplotlib`, there are two approaches we can take to create plots. We can use the `pyplot` interface (also known as the functional interface) which, on the surface is made to imitate MATLAB's method of generating plots. The previous section on plotting Preliminaries, uses this approach. All `pyplot` commands make changes to and modify the same figure. This is a state-based interface, where the state (i.e., the figure) is preserved through various function calls (i.e., the methods that modify the figure). This interface allows us to quickly and easily generate plots, and the state-based nature of this interface allows us to add elements and/or modify the plot as we need, when we need it.

The other option is to use the Object-Oriented interface, which helps us to understand how `matplotlib` structures its plots. Using this approach, the final plot that we create is the output of a `Figure`

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