Advanced Widget Styling with Layout

This notebook expands on the Widget Styling lecture by describing the various HTML and CSS adjustments that can be made through the layout attribute.

The layout attribute

Jupyter interactive widgets have a layout attribute exposing a number of CSS properties that impact how widgets are laid out.

Exposed CSS properties

The following properties map to the values of the CSS properties of the same name (underscores being replaced with dashes), applied to the top DOM elements of the corresponding widget.

Sizes

- height
- width
- max height
- max_width
- min_height
- min_width

Display

- visibility
- display
- overflow
- overflow x
- overflow_y

Box model

- border
- margin
- padding

Positioning

- top
- left
- bottom
- right

Flexbox

- order
- flex flow
- align_items
- flex
- align_self
- align_content
- justify_content

Shorthand CSS properties

You may have noticed that certain CSS properties such as margin-[top/right/bottom/left] seem to be missing. The same holds for padding-[top/right/bottom/left] etc.

In fact, you can atomically specify [top/right/bottom/left] margins via the margin attribute alone by passing the string '100px 150px 100px 80px' for a respectively top, right, bottom and left margins of 100, 150, 100 and 80 pixels.

Similarly, the flex attribute can hold values for flex-grow, flex-shrink and flexbasis . The border attribute is a shorthand property for border-width , border-style (required), and border-color.

In [19]:

```
import ipywidgets as widgets
from IPython.display import display
```

Conclusion

You should now have an understanding of how to style widgets!