```
In [1]: import ipywidgets as W
L = W.Layout
if __name__ == "__main__":
    mod_name = "ameno"
else:
    mod_name = __name__
    print(mod_name , "tested with ipywidgets (7, 6, 5, 'final', 0), current version ipyw
ameno tested with ipywidgets (7, 6, 5, 'final', 0), current version ipywidgets is:
    (7, 6, 5, 'final', 0)
```

Adding style children to boxes affect the jupyter notebook markdown boxes. For exmample if h1 is given a color of blue, then the contents of the h1 tags in the markdown boxes turn blue. To avoid this we must first define a style class with a unique name and then specifically apply that. Well the good news, if we want to, we may style the markdown boxes in the notebook.

In []:

Within Box, within a single HTML child widget, create a css style class and use it:

```
In [2]: class BoxA(W.Box):
          def __init__(self ,*args):
            super().__init__(*args)
            self.contents = W.HTML('''
            <style>
             div.box_class_21 {
               background-color: lightblue;
               color:red;
               border: 5px solid green;
               margin: 20px;
               padding: 20px;
              }
              h1 {
               color: green;
              }
              p.ex {
               color: blue;
            </style>
               <div class=box_class_21>
                  <h1>Heading 1 is green</h1>
                   paragraph in div this is red
                   This is a paragraph with class="ex". This text is blue.
                </div>
            self.children = [self.contents]
```

In [3]: a = BoxA()
display(a)



Note in the following markdown box, our h1 tags are now green.

I am an h1 and I am now green!

This affects all h1 tags in all the notebook, not just the ones after the styling is added for h1.

```
In [ ]:
```

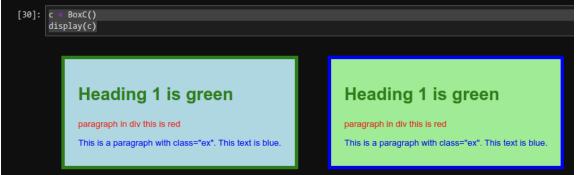
The following example differs from above because the box has two children. The first one defines the style class, while the second one uses it. This works.

```
In [4]: class BoxB(W.Box):
          def __init__(self ,*args):
            super().__init__(*args)
            self.style = W.HTML('''
            <style>
              div.box_class_22 {
                background-color: lightgreen;
                color:red;
                border: 5px solid blue;
                margin: 20px;
                padding: 20px;
              h1 {
                 color: green;
              p.ex {
                 color: blue;
            </style>
```

BoxB(children=(HTML(value='\n <style>\n div.box_class_22 {\n backgrou
nd-color: lightgreen;\n ...



This example uses the style classes defined in the prior two examples. They are stil available. So apparntly we may have a dedicated widget with the sole purpose of defining classes, and then later other widgets may use them.



Here we use three separate children, where the first opens a div, the second provides the contents for the div, and the third closes the div. This does not work.

```
[34]: d = BoxD()
display(d)

Heading 1 is green

paragraph in div this is red

This is a paragraph with class="ex". This text is blue.
```

In []: