Boxes - Exercises

**Exercise**

In this exercise, you will manipulate the *box model* properties for several of the elements in use on your pages.

**Part 1: h1**

First, we will decorate the *h1* element to make it look more like a banner.

• Open the style sheet for your *balloons* website in your code editor.

• Locate the *rule* for the *h1* element.

• Add a new *declaration* to the *rule* to give the element a *border*. We want the same border on all four sides, so we can use the *border* shorthand.

**–** The *width* should be **1px –** The *style* should be **solid**

**–** The *color* should be **#4c0072**

• When you are ﬁnished, the declaration will look like this:

border: 1px solid #4c0072;

• Save your ﬁles and preview *index.html* in your browser. Does the *h1* have a dark purple border?

• Next, we will set a background colour for the *h1*.

• Add a new declaration to the *rule* for *h1* that sets its *background-color* to **#f0e6f5**

• Save your ﬁles and preview *index.html* in your browser. Does the *h1* have a lilac background?

• Next, we will create some space between the *h1* text and its *border*. Remember, to create space *inside* the visible box, we use *padding.*

• Add a new declaration to the *h1* rule that sets the *padding* on all sides of the box to **0.5em**

**–** Remember, 1em is the element’s font-size. So, 0.5em is half of that size (whatever it may be).

• Save your ﬁles and preview *index.html* in your browser. Is there space between the *h1* text and its border?

• Preview *services.html* in your browser. The *h1* should look the same as it does on *index.html*

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**Part 2: h2**

Now we will decorate the *h2* elements.

• Locate the *h2 rule* in your style sheet.

• Add a new declaration to the *rule* that sets the *background-color* to **#f0e6f5**

• Save your ﬁles and preview *index.html* in your browser. Do the *h2* elements have a lilac background?

• Next, we will add some space between the text and the visible edge of the element

**–** i.e. the area covered by its background

• Add a declaration to the *h2* rule that sets the element’s *padding*

**–** We want **0.25em** as the *top* and *bottom* padding **–** We want **0.5em** as the *left* and *right* padding

• Save your ﬁles and preview *index.html* in your browser. Has space been added *inside* the *h2* elements?

**Part 3: h3**

Finally, we will adjust the style of the *h3* elements, so that the sections within the *services* page are more obvious (Manufacturing, Repair, Etc.).

• Add a new *rule* to your style sheet.

**–** The *selector* should be **h3**

• Add a declaration to the *rule* that gives the *h3* elements a border

**–** We only want a border on the *bottom* of the *box* **–** The *border-width* should be 1 pixel (**1px**)

**–** The *border-style* should be *solid*

**–** The *border-color* will be the same as the element’s *color* property.

• Save your ﬁles and preview *services.html* in your browser. Has the border been added to the *h3* elements?

• You will notice that the border is very close to the text.

**–** This is because, by default, the heading elements have no padding

• We will rectify this by adding a small amount of *padding* to the *bottom* of the *h3* element • Add a new declaration to the *h3* rule

**–** The *property* is **padding-bottom**

**–** The *value* is **0.25em** (one quarter of the element’s font-size)

• Save your ﬁles and preview *services.html* in your browser. Has the border moved away from the text?

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**Extra**

• For each of the properties you have deﬁned in this exercise, experiment with using diﬀerent *values* (but make sure you keep a note of what they were before you changed them!).

• Each time you change a *value*, save your ﬁle and preview your HTML pages so you can see the eﬀect that each value has.

• Note, if you change the value by a small amount, you may not notice any diﬀerence in the pages. If this is the case, try bigger values until you see a change.

• E.g. If you change this:

padding: 0.5em;

To this:

padding: 0.6em;

… You will notice very little diﬀerence • But if you change it to this:

padding: 3em;

…The eﬀect should be obvious!

• When you are ﬁnished experimenting, change all of the properties back to their original val-ues.

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