CSS BOX MODEL

BOX SIZING

DEFAULT BOX DIMENSIONS

BOX SIZING PROPERTY

BORDER BOX

BOX SIZING DESIGN GUIDANCE

TOTAL BOX DIMENSIONS

BY DEFAULT THE TOTAL WIDTH AND HEIGHT OF A BOX WILL BE THE SUM OF THE CONTENT WIDTH AND HEIGHT, PADDING AND BORDER

TOTAL WIDTH = + + + + = 620px

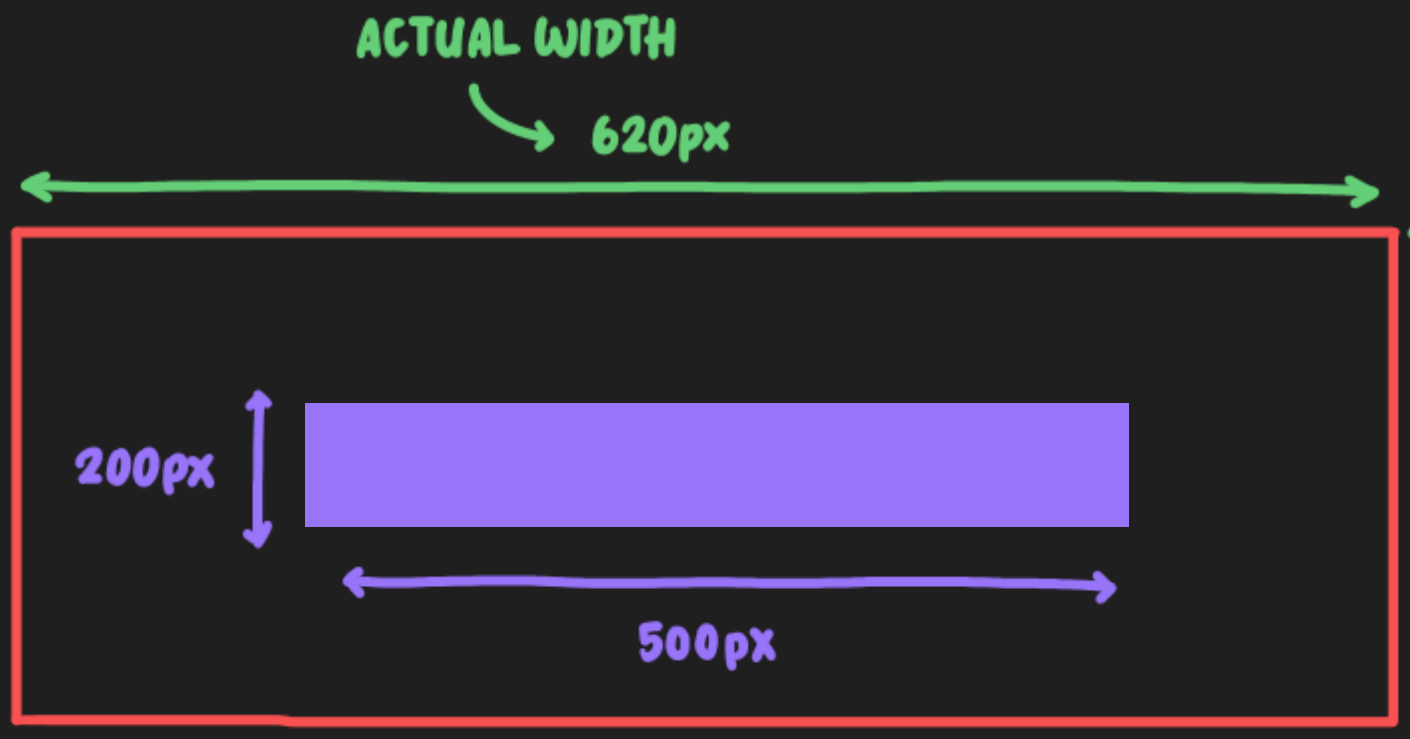
TOTAL HEIGHT = 10px + 50px + 200px + 50px + 10px = 320px

} CALCULATED VALUES

```
.box {
    width: 500px;
    height: 200px;
    padding: 50px;
    border: 10px solid red;
}
```

PROBLEMS WITH DEFAULT BEHAVIOR

THE DEFAULT BEHAVIOR OF THE BOX MODEL CAN LEAD TO ISSUES AS FINAL DIMENSIONS BECOME UNPREDICTABLE



SET WIDTH AND HEIGHT VALUES HERE

```
.box {
    width: 500px;
    height: 200px;
    padding: 50px;
    border: 10px solid red;
}
```

BOX SIZING

THE BOX-SIZING PROPERTY MODIFIES HOW THE TOTAL WIDTH AND HEIGHT OF AN ELEMENT ARE CALCULATED

PROPERTY

VALUE

```
box-sizing: border-box;
```

DEFAULT VALUE

VALUES

COMMONLY USED

BOX SIZING

CONTENT-BOX

THE TOTAL DIMENSIONS IS SUM OF CONTENT, PADDING AND BORDER

THE SET WIDTH & HEIGHT WILL BE SMALLER THAN THE TOTAL WIDTH & HEIGHT OF THE BOX

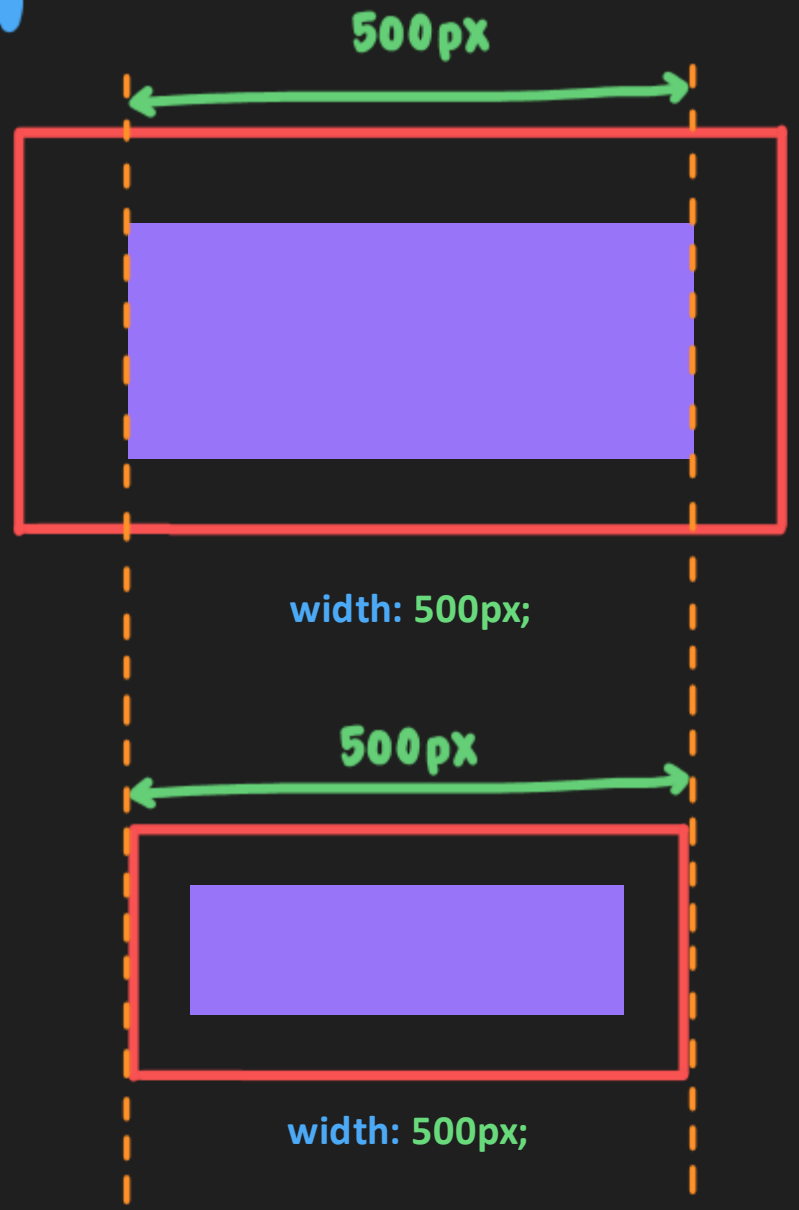
CONTENT DIMENSIONS ARE UNCHANGED

BORDER-BOX

THE TOTAL DIMENSIONS INCLUDE CONTENT, PADDING AND BORDER

THE SET WIDTH & HEIGHT WILL MATCH THE TOTAL WIDTH & HEIGHT OF THE BOX

CONTENT DIMENSIONS NEED TO REDUCE



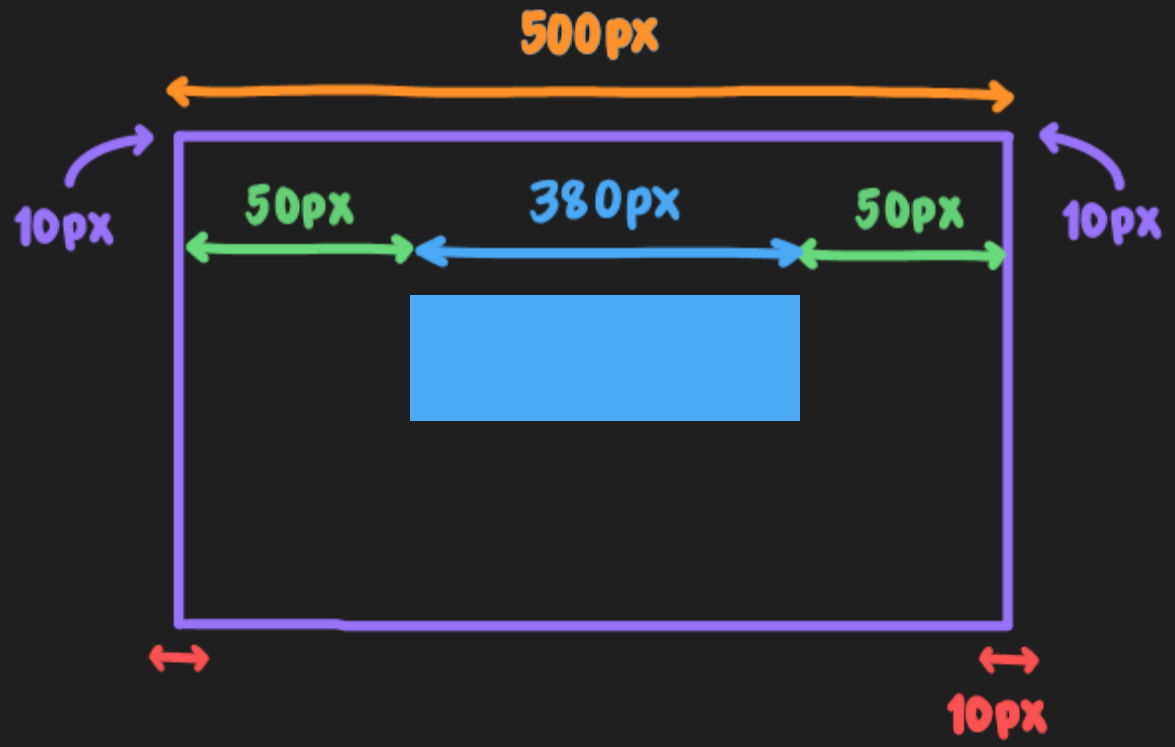
BORDER BOX

CONTENT DIMENSIONS REDUCED

TOTAL WIDTH = + + + + =

TOTAL HEIGHT = 10px + 50px + 80px + 50px + 10px = 200px

} SET VALUES



SET VALUES MATCH FINAL BOX VALUES

```
.btn {
    width: 500px;
    height: 200px;
    padding: 50px;
    border: 10px solid blue;
    box-sizing: border-box;
}
```

BOX-SIZING GUIDANCE

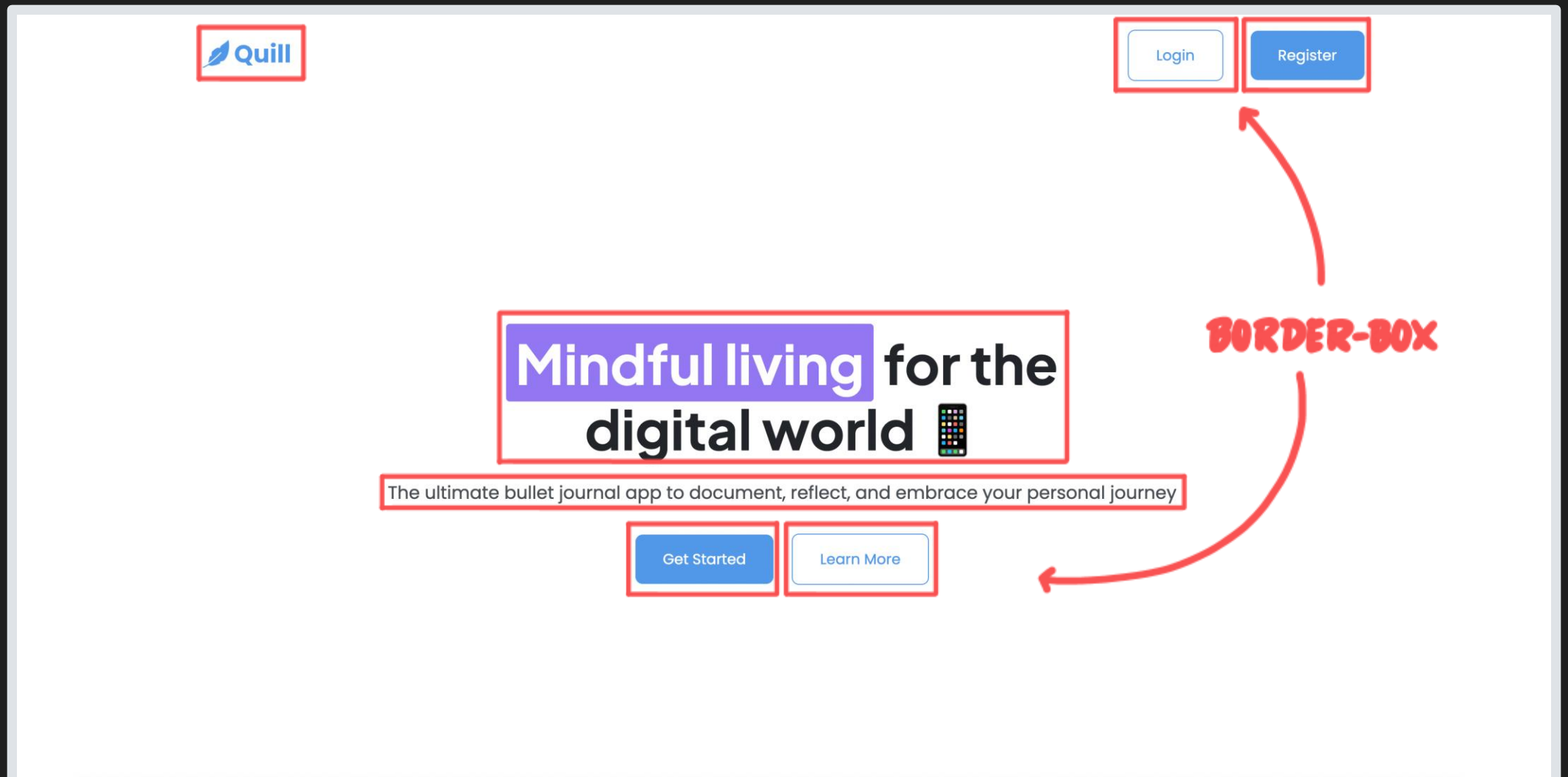
SET THE BORDER-BOX ON THE UNIVERSAL SELECTOR

SETS BORDER-BOX ON ALL BOXES

```
* {
    box-sizing: border-box;
}
```

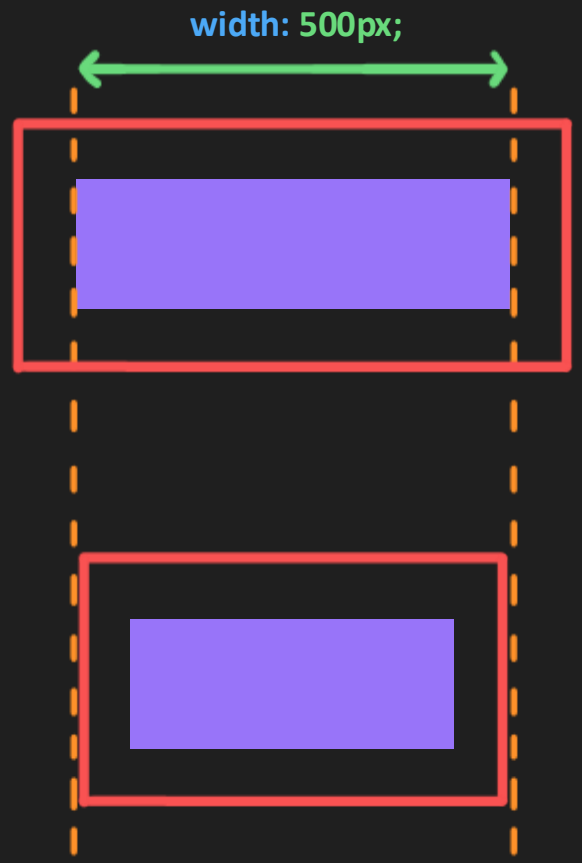
ONE OF THE FIRST THINGS TO DO IN A NEW CSS DOCUMENT

QUILL HOMEPAGE



SUMMARY CARD

BOX SIZING



CONTENT BOX

box-sizing: content-box;

SET WIDTH IS WIDTH OF CONTENT ONLY

BORDER BOX

box-sizing: border-box;

SET WIDTH WILL BE SUM OF CONTENT, PADDING & BORDER