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HTM & CSS HOMEWORK
STRUCTURE AND LAYOUT

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INTRODUCTION

These exercises are meant to keep you practicing thing we learn and what we are about to learn in the course. If you don't know how to solve any of the exercise, please first see the solution and try to figure it out, and if you still don't know how to solve them, please contact me.

The main goal of these exercises is for you to get familiar with HTML and CSS. So, as I said earlier if you get stuck on one, please first see the solution, or continue to the next one.

Best way to learn is to practice coding

HTML start tamplate:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
</html>
```
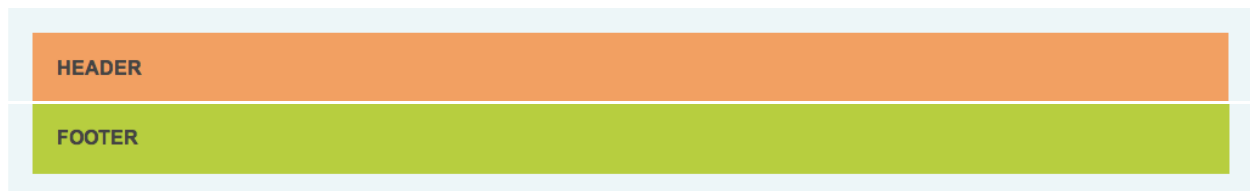
FLOAT EXAMPLES

First you need to create "Homework1" folder into the
"HTML_AND_CSS_Structure_And_Layouts" Folder. Inside the folder we will create
.html and .css files .
(Example: example.html and example.css)

Open the VSCode and then open the Homework1 directory with the VSCode

EXAMPLE 01

This example has been done for you. It's a fairly common 2-column layout with a header
and a footer.

1. Create a directory "Example1" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example1" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header> and a <footer> tag inside the body tag.
6. Inside the header and footer tag put text content with the name of the tag
   accordingly for header "HEADER" and footer "FOOTER".
7. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px
   b. Create a selector for the footer then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#b7ce3f".
      Then create a padding rule with the value of 15px

EXAMPLE 02

Make me look like Example 01; a sidebar and main content floated next to each other with a cleared footer.

1. Create a directory "Example2" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example2" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <aside>, <main> and a <footer> tag inside the body tag.
6. Inside the header and footer tag put text content with the name of the tag accordingly for header "HEADER", for aside "SIDEBAR", for main "MAIN" and footer "FOOTER".
7. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
   b. Create a selector for the aside then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f6bd62".
      Then create a float left rule.
      Width of 20.7%.
      height of 400px.
      And then create a padding rule with the value of 15px.
   c. Create a selector for the main then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#8eabc0".
      Then create a float left rule.
      Width of 75%.
      height of 400px.
      And then create a padding rule with the value of 15px.

     d. Create a selector for the footer then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#b7ce3f".
Then create a padding rule with the value of 15px.
And the create a rule for clear: both.

EXAMPLE 03

Make me look like Example 01, but with the sidebar on the right.

1. Create a directory "Example3" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example3" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <main>, <aside> and a <footer> tag inside the body tag.
6. Inside the header and footer tag put text content with the name of the tag
   accordingly for header "HEADER", for aside "SIDEBAR", for main "MAIN" and
   footer "FOOTER".
7. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
   b. Create a selector for the aside then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f6bd62".
      Then create a float left rule.

Width of 20.7%.
height of 400px.
And then create a padding rule with the value of 15px.
c. Create a selector for the main then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#8eabc0".
Then create a float left rule.
Width of 75%.
height of 400px.
And then create a padding rule with the value of 15px.
d. Create a selector for the footer then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#b7ce3f".
Then create a padding rule with the value of 15px.
And the create a rule for clear: both.

EXAMPLE 04

Make me look like Example 01. Float the logo to the left of the header and navigation all the way to the right. Make sure the header contains them!
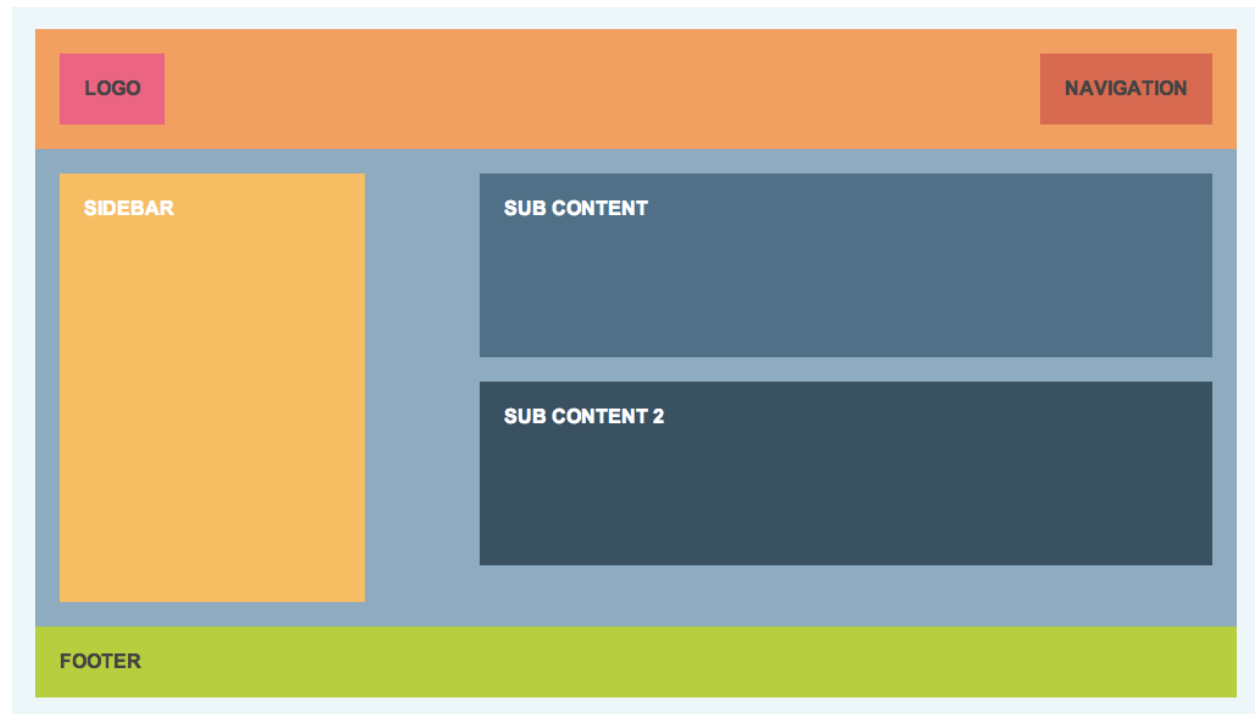
1. Create a directory "Example4" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example4" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <main>, <aside> and a <footer> tag inside the body tag.
6. Inside the header tag put two elements <div> with the text content of LOGO and a <nav> with the text content of NAVIGATION.
7. And in aside, main, footer tag put text content with the name of the tag accordingly for aside "SIDEBAR", for main "MAIN" and footer "FOOTER".
8. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
      Then create a float left rule.
      A width of 100%.
      And a box-sizing of value border-box. (box-sizing: border-box;)
   b. Create a ID selector "#logo" for the div then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#eb6481".
      Then create a float left rule.
      And finally a padding of 15px;

c. Create a selector for the nav then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#d76a50".
Then create a float left rule.
And finally a padding of 15px;

d. Create a selector for the aside then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#f6bd62".
Then create a float left rule.
Width of 20.7%.
height of 400px.
And finally padding of 15px;

e. Create a selector for the main then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#8eabc0".
Then create a float left rule.
Width of 75%.
height of 400px.
And finally padding of 15px;

f. Create a selector for the footer then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#b7ce3f".
Then create a padding rule with the value of 15px.
And the create a rule for clear: both.

EXAMPLE 05

Float the logo left and nav right in the header. Then make the sidebar float to the left of the two sub content divs, which should stack on top of each other. The footer should clear.

1. Create a directory "Example5" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example5" directory.
3. Create a starting HTML template into the example.html
    (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
    (<link ref=" stylesheet" href="./example.css">)
5. Create a <header>, <main>,and a <footer> tag inside the body tag.
6. Inside the header tag put two elements <div> with the text content of LOGO and a <nav> with the text content of NAVIGATION.
7. Inside the main tag put three elements <aside> with the text content of SIDEBAR and two <section> tags with the text content of SUB SECTION and SUB SECTION 2.
8. And in footer element put text content with the name of the tag accordingly footer "FOOTER".
9. In the examle.css file insert ruleset for the header
    a. Create a selector for the header then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#f2a062".
Then create a padding rule with the value of 15px.
Then create a float left rule.
A width of 100%.
And a box-sizing of value border-box. (box-sizing: border-box;)

b. Create a ID selector "#logo" for the div then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#eb6481".
Then create a float left rule.
And finally a padding of 15px;

c. Create a selector for the nav then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#d76a50".
Then create a float left rule.
And finally a padding of 15px;

d. Create a selector for the main tag then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#8eabc0".
Then create a float left rule.
Width of 100%.
a box-sizing of value border-box. (box-sizing: border-box;)
And finally padding of 15px;

e. Create a selector for the aside then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#f6bd62".
Then create a float left rule.
Width of 20.7%.
height of 400px.
And finally padding of 15px;

f. Create a ID selector "#subContent1" for the first section then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#507088".
Then create a float right rule.
Width of 65%.
height of 150px.
And finally padding of 15px;

g. Create a ID selector "#subContent2" for the first section then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#3a5162".
Then create a float right rule.
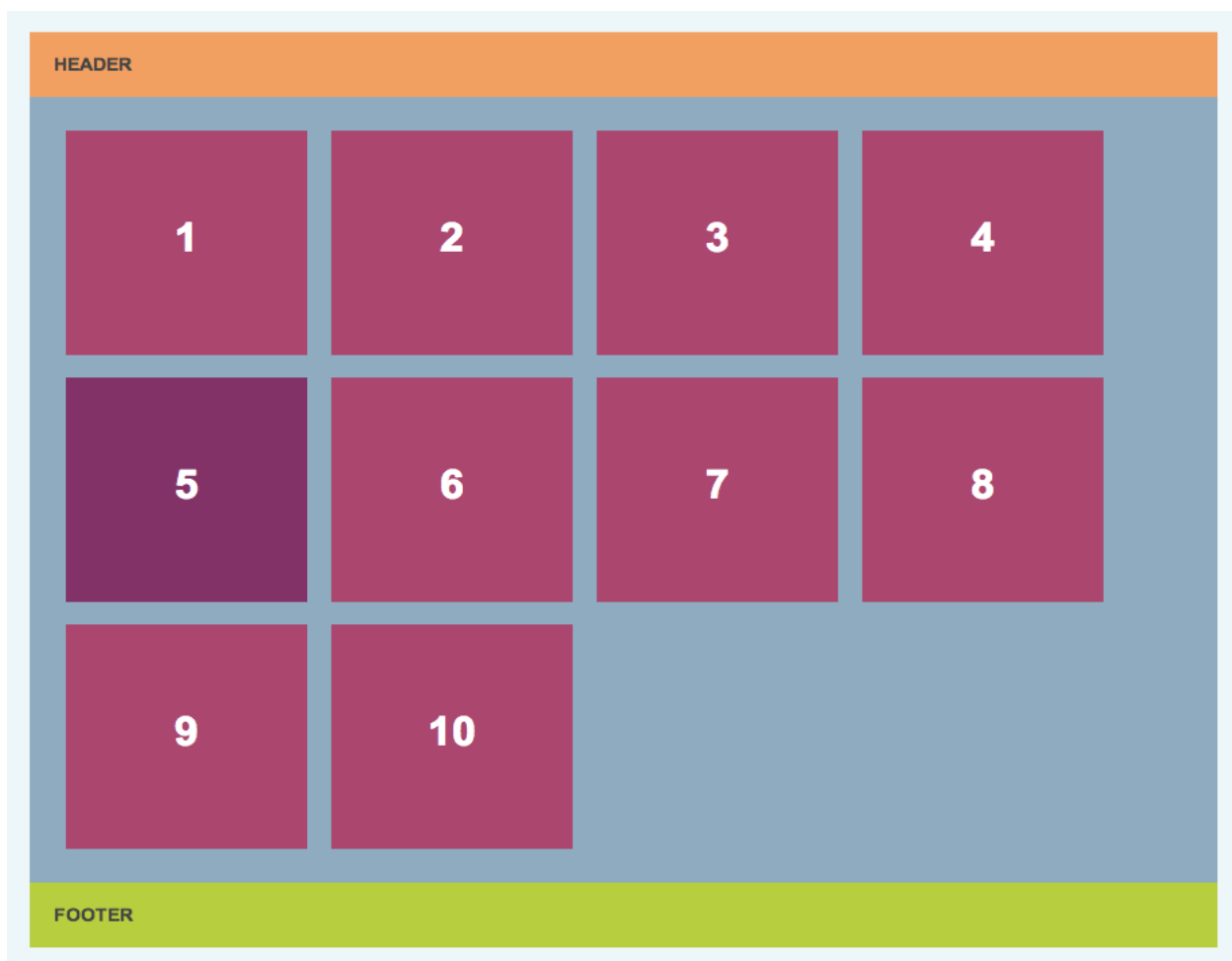Margin top of 30px;
Width of 65%.
height of 150px.
And finally padding of 15px;

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h. Create a selector for the footer then open and close the curly brackets.
    Inside the curly brackets first set a rule for background color of "#b7ce3f".
    Then create a padding rule with the value of 15px.
    And the create a rule for clear: both.

EXAMPLE 06

Make all the widget float next to each other in a grid. What happens when you change the width of .container? What happens when you change float: left to float: right? What about when you make one of the widgets tall?
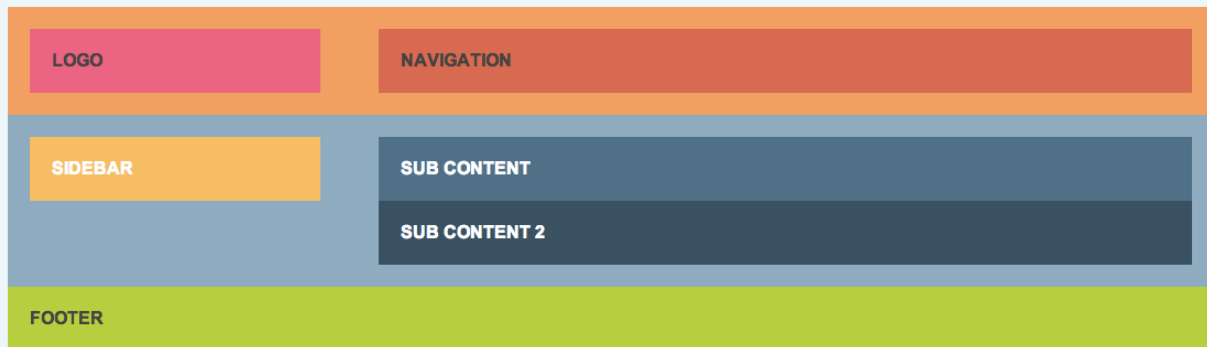

1. Create a directory "Example6" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example6" directory.
3. Create a starting HTML template into the example.html
    (VSCode shortcut "!+Tab") (or copy it from the introduction).

4. Link the .css file to the .html file.
   (<link ref=" stylesheet" href="./example.css">)
5. Create a <header>, <main>,and a <footer> tag inside the body tag.
6. Inside the main tag put ten elements <div> with the text content from "1" to "10".
7. In the fifth div element put a class attribute with the value of "selected"
8. Put text content with the name of the tag accordingly for header "HEADER" and footer "FOOTER".
9. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
      Then create a float left rule.
      A width of 100%.
      And a box-sizing of value border-box. (box-sizing: border-box;)
   b. Create a selector for the main tag then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#8eabc0".
      Then create a float left rule.
      Width of 100%.
      a box-sizing of value border-box. (box-sizing: border-box;)
      And finally padding of 15px;
   c. Create a selector for div tag then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#ab476f".
      Text color of white.
      The font weight of bolder.
      The font size of 24px.
      And a text align to the center.
      Then create a float left rule.
      Width of 20%.
      a box-sizing of value border-box. (box-sizing: border-box;)
      A margin of 15px.
      And finally padding of 100px for top, bottom and 0 for left, right.
   d. Create a Class selector ".selected" for the fifth div then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#823267".
   e. Create a selector for the footer then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#b7ce3f".
      Then create a padding rule with the value of 15px.
      And the create a rule for clear: both.

EXAMPLE 07

Make me look like Example 05, with the stacked sub-content divs floated beside the sidebar. This time, use fluid percentage widths instead of pixel values! See what happens when you resize your browser window. Where does it break?

1. Create a directory "Example7" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example7" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <main>,and a <footer> tag inside the body tag.
6. Inside the header tag put two elements <div> with the text content of LOGO and a <nav> with the text content of NAVIGATION.
7. Inside the main tag put three elements <aside> with the text content of LOGO and two <section> tags with the text content of SUB SECTION and SUB SECTION 2.
8. And in aside, main, footer tag put text content with the name of the tag accordingly for aside "SIDEBAR", for main "MAIN" and footer "FOOTER".
9. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
      Then create a float left rule.
      A width of 100%.
      And a box-sizing of value border-box. (box-sizing: border-box;)
   b. Create a ID selector "#logo" for the div then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#eb6481".
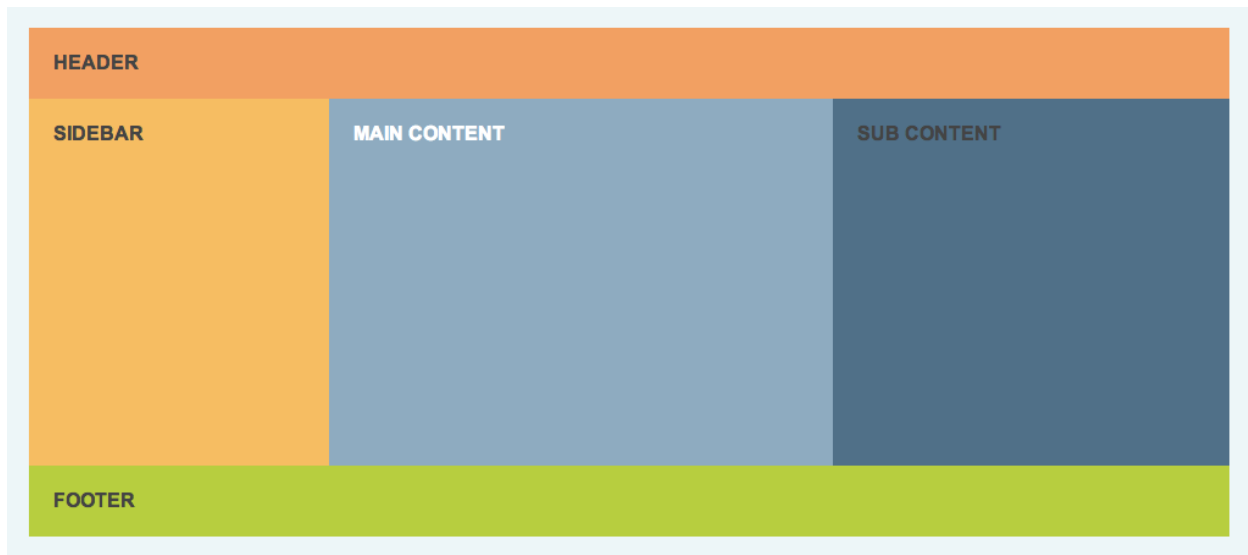
Then create a float left rule.

And finally a padding of 15px;

c. Create a selector for the nav then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#d76a50".

Then create a float left rule.

And finally a padding of 15px;

d. Create a selector for the main tag then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#8eabc0".

Text color with value of #ffffff.

Then create a float left rule.

Width of 100%.

a box-sizing of value border-box. (box-sizing: border-box;)

And finally padding of 15px;

e. Create a selector for the aside then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#f6bd62".

Then create a float left rule.

Width of 20.7%.

And finally padding of 15px;

f. Create a ID selector "#subContent1" for the first section then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#507088".

Then create a float right rule.

Width of 65%.

And finally padding of 15px;

g. Create a ID selector "#subContent2" for the first section then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#3a5162".

Then create a float right rule.

Width of 65%.

And finally padding of 15px;

h. Create a selector for the footer then open and close the curly brackets.

Inside the curly brackets first set a rule for background color of "#b7ce3f".

Then create a padding rule with the value of 15px.

And the create a rule for clear: both.
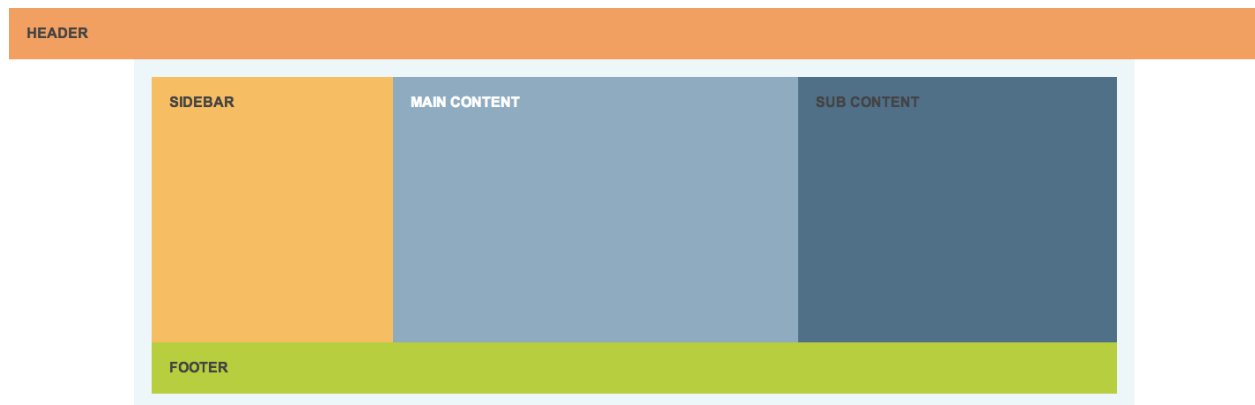
EXAMPLE 08

Make a 3 column layout.

1. Create a directory "Example8" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example8" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <aside>, <main>, <section> and a <footer> tag inside the body tag.
6. Inside the header and footer tag put text content with the name of the tag accordingly for header "HEADER", for aside "SIDEBAR", for main "MAIN", for section "SUB CONTENT" and footer "FOOTER".
7. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
      Create a selector for the aside then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f6bd62".
      Then create a float left rule.
      A box-sizing of value border-box. (box-sizing: border-box;)
      Width of 20%.
      height of 400px.
      And then create a padding rule with the value of 15px.

b. Create a selector for the main then open and close the curly brackets.
    Inside the curly brackets first set a rule for background color of "#8eabc0".
    Then create a float left rule.
    A box-sizing of value border-box. (box-sizing: border-box;)
    Width of 50%.
    height of 400px.
    And then create a padding rule with the value of 15px.
c. Create a selector for the main then open and close the curly brackets.
    Inside the curly brackets first set a rule for background color of "#507088".
    Then create a float left rule.
    A box-sizing of value border-box. (box-sizing: border-box;)
    Width of 30%.
    height of 400px.
    And then create a padding rule with the value of 15px.
d. Create a selector for the footer then open and close the curly brackets.
    Inside the curly brackets first set a rule for background color of "#b7ce3f".
    Then create a padding rule with the value of 15px.
    And the create a rule for clear: both.

EXAMPLE 09

Make a 3 column layout like Example 08, but make the header the full width of the browser, not just the container div. This one will require writing and deleting some HTML, too!
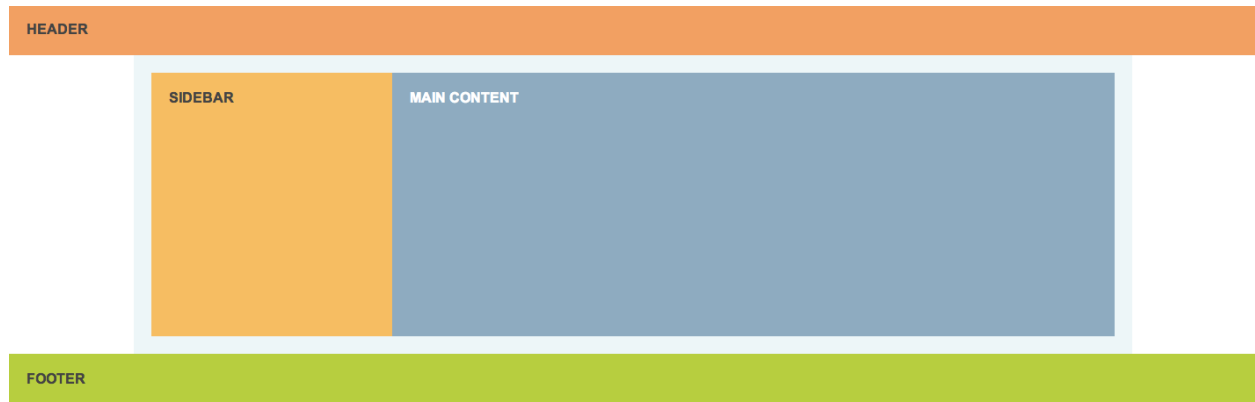

1. Create a directory "Example9" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example9" directory.
3. Create a starting HTML template into the example.html
    (VSCode shortcut "!+Tab") (or copy it from the introduction).

4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <div> with an ID of "container" inside the body tag.
   Inside the header element put text content accordingly for header "HEADER",
6. Inside the div tag create <aside>, <main>, <section> and a <footer> elements.
   Put the text content accordingly. For aside "SIDEBAR", for main "MAIN", for section "SUB CONTENT" and for footer "FOOTER"
7. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
   b. Create a ID selector for the "#containter" then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#edf6f8".
      Width of 80%.
      margin with a value of "0 auto". (this is to center the div)
      And then create a padding rule with the value of 15px.
   c. Create a selector for the aside then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f6bd62".
      Then create a float left rule.
      A box-sizing of value border-box. (box-sizing: border-box;)
      Width of 20%.
      height of 400px.
      And then create a padding rule with the value of 15px.
   d. Create a selector for the main then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#8eabc0".
      Then create a float left rule.
      A box-sizing of value border-box. (box-sizing: border-box;)
      Width of 50%.
      height of 400px.
      And then create a padding rule with the value of 15px.
   e. Create a selector for the section then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#507088".
      Then create a float left rule.
      A box-sizing of value border-box. (box-sizing: border-box;)
      Width of 30%.
      height of 400px.
      And then create a padding rule with the value of 15px.
   f. Create a selector for the footer then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#b7ce3f".
      Then create a padding rule with the value of 15px.
      And the create a rule for clear: both

EXAMPLE 10

Make the header *and* footer the full page width, but keep the sidebar and content divs constrained.

1. Create a directory "Example10" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example10" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref="stylesheet" href="./example.css">)
5. Create a <header>, <div> with an ID of "container" and <footer> inside the body tag. Inside the header element put text content accordingly for header "HEADER" and for footer "Footer"
6. Inside the div tag create <aside>, and <main> elements.
   Put the text content accordingly. For aside "SIDEBAR", and for main "MAIN".
7. In the examle.css file insert ruleset for the header
   a. Create a selector for the header then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f2a062".
      Then create a padding rule with the value of 15px.
   b. Create a ID selector for the "#containter" then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#edf6f8".
      Width of 80%.
      Set the overflow to hidden (overflow: hidden)
      margin with a value of "0 auto". (this is to center the div)
      And then create a padding rule with the value of 15px.
   c. Create a selector for the aside then open and close the curly brackets.
      Inside the curly brackets first set a rule for background color of "#f6bd62".
      Then create a float left rule.

A box-sizing of value border-box. (box-sizing: border-box;)
Width of 30%.
height of 400px.
And then create a padding rule with the value of 15px.

d. Create a selector for the main then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#8eabc0".
Then create a float left rule.
A box-sizing of value border-box. (box-sizing: border-box;)
Width of 70%.
height of 400px.
And then create a padding rule with the value of 15px.

e. Create a selector for the main then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#507088".
Then create a float left rule.
A box-sizing of value border-box. (box-sizing: border-box;)
Width of 30%.
height of 400px.
And then create a padding rule with the value of 15px.

f. Create a selector for the footer then open and close the curly brackets.
Inside the curly brackets first set a rule for background color of "#b7ce3f".
Then create a padding rule with the value of 15px.
And the create a rule for clear: both

EXAMPLE 11

Make a blog-like layout with a header, and a set of blog posts that are an image and a paragraph floated next to each other.

1. Create a directory "Example11" into the "Homework1" directory.
2. Create example.html and example.css file into the "Example11" directory.
3. Create a starting HTML template into the example.html
   (VSCode shortcut "!+Tab") (or copy it from the introduction).
4. Link the .css file to the .html file.
   (<link ref=" stylesheet" href="./example.css">)
5. Create a <header>, <main>,and a <footer> tag inside the body tag.
6. Inside the header tag put two elements <div> with the text content of LOGO and a <nav> with the text content of NAVIGATION.
7. Inside the main tag put four <section> elements and give them a class attribute of "subContent".
8. Inside the section elements put <h2> with the text content of "POST TITLE", a <img> element with src attribute of "https://picsum.photos/150" and a alt attribute of "post image" and a <p> element with dummy text "lorem ipsum"(write lorem + tab).
9. And in footer tag put text content with the name of the tag accordingly for footer "FOOTER".
10. In the examle.css file insert ruleset for the header

a. Create a selector for the header then open and close the curly brackets.
   Inside the curly brackets first set a rule for background color of "#f2a062".
   Then create a padding rule with the value of 15px.
   Then create a float left rule.
   A width of 100%.
   And a box-sizing of value border-box. (box-sizing: border-box;)

b. Create a ID selector "#logo" for the div then open and close the curly brackets.
   Inside the curly brackets first set a rule for background color of "#eb6481".
   Then create a float left rule.
   And finally a padding of 15px;

c. Create a selector for the nav then open and close the curly brackets.
   Inside the curly brackets first set a rule for background color of "#d76a50".
   Then create a float left rule.
   And finally a padding of 15px;

d. Create a selector for the main tag then open and close the curly brackets.
   Inside the curly brackets first set a rule for background color of "#8eabc0".
   Then create a float left rule.
   Width of 100%.
   a box-sizing of value border-box. (box-sizing: border-box;)
   And finally padding of 15px;

e. Create a Class selector for ".subContent" then open and close the curly brackets.
   Inside the curly brackets first set a rule for background color of "#b7ce3f".
   Then create a overflow: hidden;
   text color white.
   margin-bottom: 15px;
   And finally a padding of 15px;

f. Create a rule for img inside Class selector ".subContent img" then open and close the curly brackets.
   Then create a float left rule.

g. Create a rule for paragraph inside Class selector ".subContent p" then open and close the curly brackets.
   background color of value rgba(0, 0, 0, 0.4)
   (background-color: rgba(0, 0, 0, 0.4);)
   Then create a float right rule.
   With of 80%.
   And a padding of 15px.

h. Create a selector for the footer then open and close the curly brackets.
   Inside the curly brackets first set a rule for background color of "#b7ce3f".
   Then create a padding rule with the value of 15px.
   And the create a rule for clear: both.

EXAMPLE 12

Style this To Do list. You'll need to use floats to align the priority icon, title, and checkbox with each other, and margin and padding to correctly space the to do item elements. Be sure to style the rest of the elements like the photo; you'll need to use margin, borders, background, font-size, and padding!