

ASSIGNMENTS WEEK 6

# **BEFORE YOU START**

with the assignments please download the template folder from Blackboard. Here you will find the files, screenshots and images needed for the assignment.

The exact margins, paddings, color values and font sizes are irrelevant. The exercises are about being able to set the values itself not having the exact same color or number of pixels.

The assignments are less elaborate than last week's assignment. This means that you will have to search more information for yourself. This way you will be able to remember the theory better. If you are wondering what the exact values should be you can always ask your lab teacher.

You are not allowed to change the HTML file by adding your own classes or id's to elements. Additional information about each assignment is in the description.

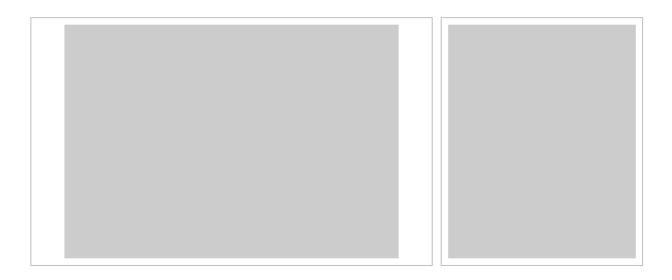
# ASSIGNMENT 1 – EXERCISE FLUID LAY-OUT

Using CSS create the lay-out in the image below. For this assignment you do not have to add HTML. There are multiple ways of doing the following assignment but in the following assignment you should use the "vw" (view width) and "vh" (view height) units in combination with the CSS "calc()" function.

## Sources:

https://www.w3schools.com/cssref/func\_calc.asp https://www.w3schools.com/cssref/css\_units.asp

- 1. Give the body 20 pixels padding.
- 2. The division should have a maximum width of 1000 pixels.
- 3. Center the division.
- 4. The division should always take up the whole width of the viewport minus the 20 pixels of padding on the left and the right.
- 5. The division should always take up the whole height of the viewport minus the 20 pixels of padding on the top and bottom.



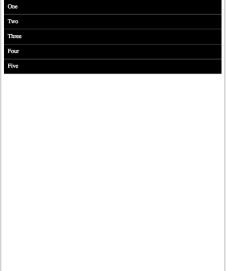
# ASSIGNMENT 2 – EXERCISE MEDIA QUERY

Using CSS create the lay-out in the image below. For this assignment you do not have to add or change the HTML.

#### TIPS:

1. Set a media query at 960 pixels to change the styling.





# ASSIGNMENT 3 – EXERCISE COMBINING FLUID AND MEDIA QUERY

Using CSS create the lay-out in the image below. For this assignment you do not have to add or change the HTML.

- 1 Import and apply the "style-large.css" and the "style-small.css" files in the main "style.css" file depending on the browser window size. The breakpoint is at 800 pixels.
- 2 Make the lay-out fluid with a maximum width of 1100 pixels.
- 3 Set a Media Query breakpoint at 800 pixels.
- 4 Add the necessary CSS property:values to the "style-large.css" and the "style-small.css" to create the same layout as shown in the screenshots.

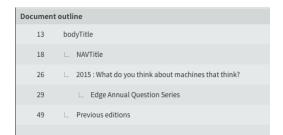




# ASSIGNMENT 4 – COMPLEX LAY-OUT 1

With CSS create the lay-out depicted below. For this assignment you do not have to add or change the HTML.

The large layout is the same as assignment 9 of the lab assignments of week 5. There are some slight changes in the CSS though. Check out the spec sheet for this assignment.



#### TIPS:

- 1. Make the lay-out fluid with a maximum width of 1200 pixels.
- 2. Set a Media Query breakpoint at 840 pixels.
- 3. For the book list at the bottom you will have to use a combination of selectors and the *calc()* function to see the margins right. Make sure the list is nicely aligned with the left and right side of the websites.





CONVERSATIONS	
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# 2015: WHAT DO YOU THINK ABOUT MACHINES THAT THINK?

**EDGE ANNUAL QUESTION SERIES** 

In recent years, the 1980s- era philosophical discussions about artificial intelligence (Al)—whether computers can "really" think, refer, be conscious, and so on—have led to new conversations about how we should deal with the forms that many argue actually are implemented. These "Ms." if they achieve or "Superintelligence" (Nick Bostrom), could pose "existential risks" that leads to "Our Final Hour" (Martin Rees). And Stephen Hawking recently made international headlines when he noted "The development of full artificial intelligence could spell the end of the human race."



THE EDGE QUESTION—2015

WHAT DO YOU THINK ABOUT MACHINES THAT THINK?

But wait! Should we also ask what machines that think, or, "Als", might be thinking about? Do they want, do they expect civil rights? Do they have feelings? What kind of government (for us) would an AI choose? What kind of society would they want to structure for themselved? or is "their" society "our" society? Will live, and the AIs, include each other within our respective circles of empathy?

Numerous Edgies have been at the forefront of the science behind the various flavors of AI, either in their research or writings. AI was front and center in conversation, set where the science behind the various science and center in conversation and center in the science of the science of

is Al becoming increasingly real? Are we now in a new era of the "Als"? To consider this issue, it's time to grow up. Enough already with the science fiction and the movies, Star Maker, Blade Runner, 2001, Her, The Matrix, "The Borg," Also, 80 years after Turing is revention of his Universal Machine, it's time to honor Turing, and other Al pioneers, by giving them a well-deserved rest. We know the history, (See George Dyson's 2004 Edge feature "Turing's Cathedral".) So, once again, this time with rigor, the Edge Question—2015:

WHAT DO YOU THINK ABOUT MACHINES THAT THINK?

John Brockman Publisher & Editor, Edge

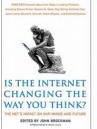
#### Previous editions











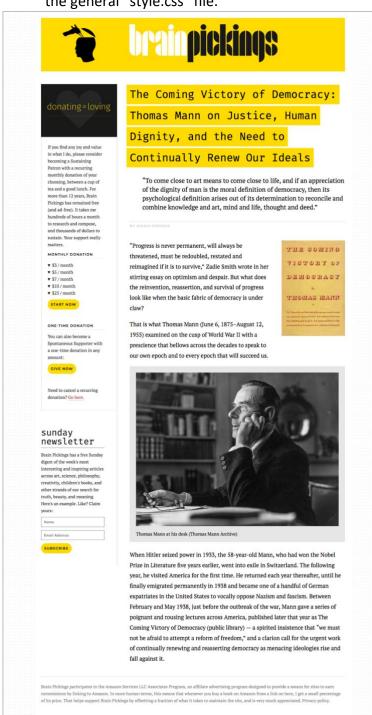


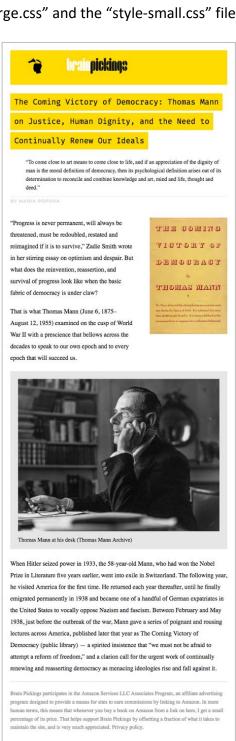
## ASSIGNMENT 5 – COMPLEX LAY-OUT 2

With CSS create the lay-out depicted below. For this assignment you do not have to add or change the HTML. (document outline on the next page)

# 

- 1. Import and apply the "style-large.css" and the "style-small.css" files in the main "style.css" file depending on the browser window size. The breakpoint is at 760 pixels.
- 2. From the main "style.css" file, copy the CSS for the phone layout to the "style-small.css" file and the CSS for the desktop layout to the "style-large.css" file.
- 3. Move all the duplicate property:values from the "style-large.css" and the "style-small.css" files to the general "style.css" file.





# ASSIGNMENT 6 – FLEX BASICS

In this assignment you'll apply some basic flex properties to align div elements. Use the CSS "display:flex" property to create the lay-out in the image below.

- 1 Set the width of the 'section' element to 1200pixels.
- 2 Center the 'section' element with flex.
- 3 Place the "div" elements in line by using the "display:flex" property / value.
- 4 Make the "div" elements take up an equal amount of space of it's parent element using the "flex:\* \* \*px" shorthand.

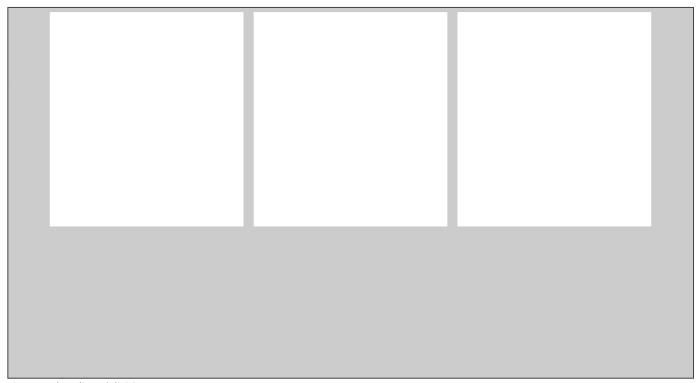


Figure 1:Flex aligned divisions

# ASSIGNMENT 7 – FLEX WRAP

In this assignment we'll align divisions using display flex.

Use the CSS "display:flex" property to create the lay-out in the image below.

- 1. Center the "main" element within the body using "flex".
- 2. Place the "div" elements in line by using the "display:flex" property / value.
- 3. Align the number in the "div" element to the vertical center.
- 4. Align the number in the "div" element to the horizontal center.
- 5. Give the "div" element a base width of 80px.
- 6. Make the "main" element wrap around the divs when resizing the browser window (fig. 2)
- 7. Now align the "div" elements to the right wrapping them from the left (fig. 3). (you could use photo's in this assignment to make an imagegallery)

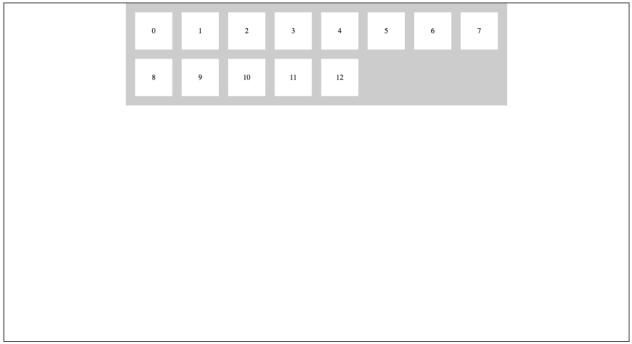


Figure 2: Wrap



Figure 3: Wrap Reverse

# ASSIGNMENT 8 - THE POWER OF FLEX

In this assignment we'll make a mobile first, responsive website using flex. Use the CSS "display:flex" property to create the lay-out in the images below. Check out the following link:

https://www.w3schools.com/css/css rwd mediagueries.asp

#### TIPS:

# **Phone layout:**

- 1 Place all elements within the section in line by using the "display:flex" property / value.
- 2 Make each element in the section element grow and schrink equally and set it's initial width to 100% of the width of it's parent element "flex: flex-grow flex shrink flex-basis" shorthand.
- 3 Make the section wrap it's content.



Figure 6: Phone Layout

# **Tablet layout:**

1 Now place the 'aside' elements next to each-other by changing their flex-basis property.

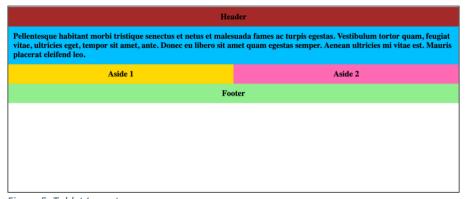


Figure 5: Tablet Layout

# **Desktop layout:**

- 1 Make the "main" element take up 3 times as much space as the aside elements using the "flex: flex-grow flex shrink flex-basis" property.
- 2 Change the order of the elements to place the 'aside' element with the class '.aside\_1' on the left and the 'aside' element with the class '.aside 2' on the right of the 'main' element.
- 3 Set the width of the 'section' element to 80% of the 'body'.
- 4 Center the 'section' element with flex.

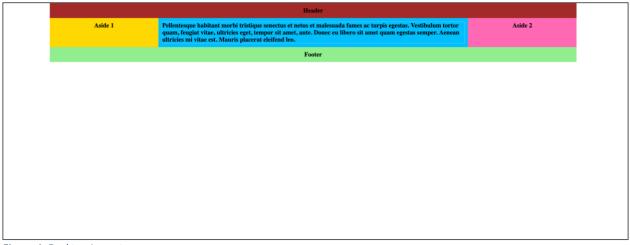


Figure 4: Desktop Layout

#### Media-Queries:

- 1 Switch to the tablet layout when the browser-window is bigger then 600 pixels;
- 2 Switch to the desktop layout when the browser-window is bigger then 1000 pixels.

# ASSIGNMENT 4 – THE POWER OF FLEX

Test your might at <a href="https://flexboxfroggy.com/">https://flexboxfroggy.com/</a>. See if you can finish all the challenges.