Exercise: Flexbox

Problems for exercises and homework for the "HTML and CSS" course @ SoftUni. Submit your solutions in the SoftUni Judge system at https://judge.softuni.org/Contests/3335/Flexbox.

1. Flexbox Layout

Create a web page like the following:



Change the document title to "Flexbox Layout"

Requirements

- Create header, main, aside and footer elements
- <body>
 - background color #EEE; 0
 - padding 5rem;
 - display flex;
 - flex-wrap wrap;
- Each element (<header>, <main>, <aside>, <footer>) must have:
 - padding 2rem;
 - background color #FFF;
 - border-radius 0.4rem;
 - o color #000;
- <header> and <footer>
 - o flex-basics 100%;
- <main>
 - flex 8 1 40rem;
- <aside>
 - o flex 2 1 20rem;

2. FlexModel Articles

Create a web page like the following:

















The power of music

We can all think of at least one song that, when we hear it, triggers an emotional response. It might be a song that accompanied the first dance at your wedding for example or a song that reminds you of a difficult break-up or the loss of a loved one.

Reducing pain and anxiety

By analyzing 72 randomized controlled trials involving more than 7,000 patients who received surgery, researchers found those who were played music after their procedure reported feeling less pain and anxiety than those who did not listen to music, and they were also less likely to need pain medication

An effective stress reliever

The study researchers, including Prof. Isabelle Peretz of the Center for Research on Brain, Music and Language at the University of Montreal in Canada, suggested the repetitive pattern of the music the infants listened to reduced distress, possibly by promoting "entrainment".

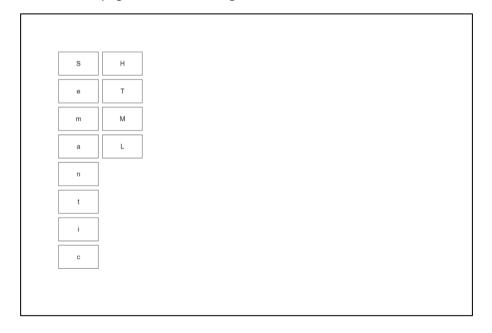
Change the document title to "Articles"

Requirements

- Create a **section** with three articles inside
- The article should have a **h2** title and a paragraph (**p**)
- **Fonts**
 - Font family Helvetica, sans-serif with line height 1.5 for the html
 - Font family **Georgia**, **serif** with line height **1.2** for the headings
- Change the **section** display property to **flex** and set **justify-content: space-between**
- Set on the section max-width 70vw

3. ABC Game

Create a web page like the following:



Change the document title to "ABC Game"

















- Create a div with class container and twelve span tags inside
- Type the letters in the **spans** EXACTLY as they are in the file **text.txt**
- Use font-family: Helvetica, sans-serif, with font-size: 20px
- Change the **div** display property to **flex** and align the items in center
- Set on the div max-width: 15vw and height 35rem
- The **span** must have
 - Border width 1px
 - o Border color **black**
 - o Border style solid
- To arrange the letters, use the flex property order

4. Calendar

Create a web page like the following:

Workweek						REMINDERS
1 Monday	2 Thuesday	3 Wednes	sday	4 Thursday	5 Friday	
Weekend						SPECIAL DATES
	6 Saturday		7 Sunday			

Change the document title to "Calendar"

- Create a div with class container and two sections inside
 - First section has class week
 - Second **section** has class **notes**
- Use **span** tags for all content
- Change the div and sections display property to flex and align the items in center
- Set on the div max-width 65vw
- The span must have
 - Border width 1px
 - Border color **black**
 - Border style **solid**
- For the section with class notes use the property **flex-direction column**
- Set on all HTML elements the property box-sizing: border-box















5. Navigation Flexbox

Create a web page like the following:

SITE TITLE

Heading level 1

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Change the document title to "Navigation - Flexbox"

- Divide the **body** into **header** and **main** tag
- The **bottom border** in the **header** must have
 - Border width 2px
 - Border color rgb(0, 0, 0)
 - Border style solid
- The display property of the header must be flex
- The unordered list in the header must have display property flex
- The anchors text color in the navigation must be rgb(0, 153, 0)











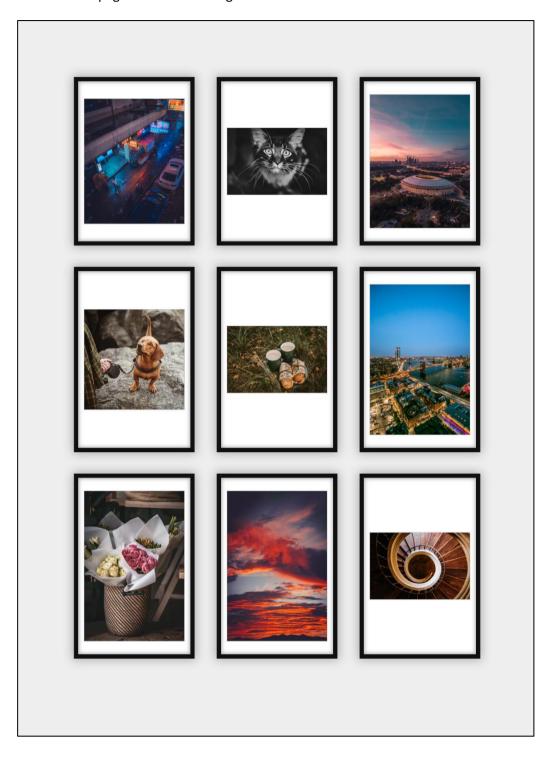






6. Photo Gallery - Flexbox

Create a web page like the following:



Change the document title to "Photo Gallery - Flexbox"

- Add section with class gallery (section.gallery)
- Add unordered list with list items and images inside
- Change the **body**, **ul** and **li** display property to **flex**
- Set the **ul** property **justify-content** to be equal to **space-between**

















7. Blog Layout – Flexbox

Create a web page like the following:

SITE TITLE

Heading level 1

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- Categories
- ImportantDogs

Social

- Twitter Google+ < really?

Heading level 2

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Heading level 2



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Change the document title to "Blog Layout - Flexbox"

- The entire content must be in **div** container with **class** page (**div.page**)
- The page container (div) must be flexed and wrapped
- Body background color must be rgb(238, 238, 238)
- Image background color should be rgb(255, 255, 255)
- Blockquote font family must be Georgia, serif
- The anchors text color in the aside section must be rgb(0, 153, 0)
- Page headings font family must be Georgia, serif





















8. Sticky Footer – Flexbox

Create a web page like the following:

SITE TITLE Heading level 2 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse tempus lorem nibh, quis vehicula quam eleifend vel. Sed sagittis urna a commodo fermentum. Donec fringilla volutpat mi, non ultrices dolor ultrices quis. Quisque vel lectus vel dui fermentum ornare. Mauris at suscipit orci. Sed convallis eget nist ac fermentum. Ut tincidunt dui velit, ut malesuada nulla lobortis at. Morbi in gravida nulla. Donec ut massa imperdiet, pulvinar nisi quis, auctor dolor. Curabitur sed facilisis nibh, a tincidunt lectus. Duis interdum nibh quis porttitor facilisis. In sit amet nulla sed nibh tristique iaculis eu nec metus. Aliquam hendrerit egestas orci, at sollicitudin lectus mattis eu. Nunc elementum congue sagittis. Praesent in tempus nisl. Vestibulum consequat dapibus arcu, in ornare felis gravida et. Vestibulum ut diam lacinia, sagittis leo eu, convallis felis. Maecenas sit amet ipsum lobortis, sollicitudin sem a, blandit purus, Nulla vehicula dignissim augue id sagittis. Sed pulvinar erat non fermentum elementum. Quisque rolutpat, nunc id congue finibus, dui dolor efficitur nunc, ac interdum lacus lacus in enim. Nullam mattis nulla a magna efficitur, et rhoncus nulla ullamcorper. Mauris fermentum dictum massa vitae porta Maecenas rutrum augue eu lorem fringilla fringilla. Mauris posuere luctus libero et sodales. Donec posuere pharetra efficitur. Aliquam erat volutpat. Donec sodaies malesuada purus, a gravida ipsum molestie ac. Donec ac luctus leo, eget lobortis sapien. Quisque ultricies egestas ipsum, tempor porta nulla facilisis eu. Sed fermentum viverra tortor ut lacinia. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Duis eleifend ut ligula quis lacinia. Ut sit amet est quis ipsum tristique suscipit ac sed nunc. Quisque et mi maximus, pellentesque libero eu, efficitur eros. Morbi placerat interdum nunc, sed varius sapien cursus a. Nulla eros arcu, gravida non urna sit amet, placerat ornare ligula. Sed a lacus nec quam pellentesque laoreet. Proin sit amet est vitae mi porttitor rhoncus sed nec neque. Praesent metus quam, sagittis eu mauris a, pellentesque suscipit justo. In varius tortor a ante feugiat, quis finibus magna blandit. Phasellus dictum interdum efficitur. Maecenas eleifend sapien felis, quis interdum ex tempor a. Aenean sodales, eros ac fermentum elementum, enim nisi finibus nisi, sed tempus turpis mauris ac quam nean ac leo vel ante sollicitudin consequat in ut augue. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Duis sodales odio diam. Phasellus ultricies faucibus massa sit Ut vitae tristique magna. In hac habitasse platea dictumst. Aliquam tempor dolor in ante porta, quis convallis metus laoreet. Ut a magna mauris. Vestibulum blandit ante vitae felis gravida hendrerit. Nulla eleifend vel diam non viverra. Nullam at maximus mi. Integer luctus quis felis vitae ornare. Ut eu conseguat liber

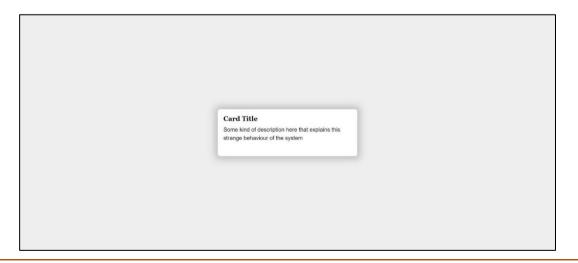
Change the document title to "Sticky Footer - Flexbox"

Requirements

- Divide your content into **header**, **main** and **footer** tags
- The **body** must have **flex** display property
- The body background must be rgb(238, 238, 238)
- Set height to the body: 100vh
- Font family Helvetica, sans-serif
- The **footer** should be at the bottom of the page
 - The footer text color must be rgb(255, 255, 255)
 - The footer background color must be rgb(102, 102, 102)

9. Center Flexbox

Create a web page like the following:



















Change the document title to "Center Flexbox"

Requirements

- The body background color must be rgb(238, 238, 238)
- The body **display** property must be **flex**
- The content must be placed into div with class card (div.card)
 - The div background color must be rgb(255, 255, 255)

Expanding Flex Cards 10.

Create a web page like the following:



Change the document title to "Expanding Flex Cards"

Requirements

- Body background color must be **rgb(238, 238, 238)**
- The body display property must be **flex**
 - o Align the items in center
- The entire page content must be inside **section** with class named **container** (**section.container**)
- The container display property must be **flex**

11. **Cards with CSS Columns and Flexbox**

Create a web page like the following:

















Change the document title to "Cards with CSS Columns and Flexbox"















- Body background color must be rgb(238, 238, 238);
- Use **h2** for the heading
- The content should be divided in two parts:
 - First part is container unit (div) with classes cards-layout and masonry
- Second part is container unit (div) with classes cards-layout and flex
- Every "card" has:
 - o img tag
 - section
 - h3 tag
 - p tag
 - footer















