# **Exercise: Flexbox**

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

# 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".

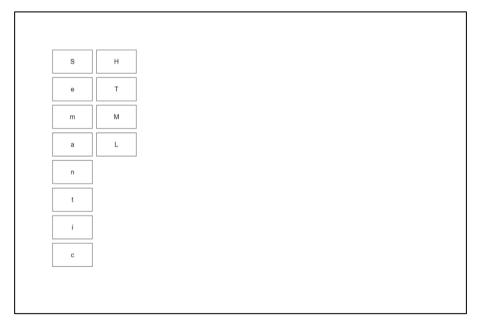
Change the document title to "Articles"

## 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
  - o Border width 1px
  - 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	day	4 Thursday	5 Friday	
Weekend						SPECIAL DATES
	6 Saturday		7 Sunday			

Change the document title to "Calendar"

## Requirements

- 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
  - o 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

















Page 3 of 10

# 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)











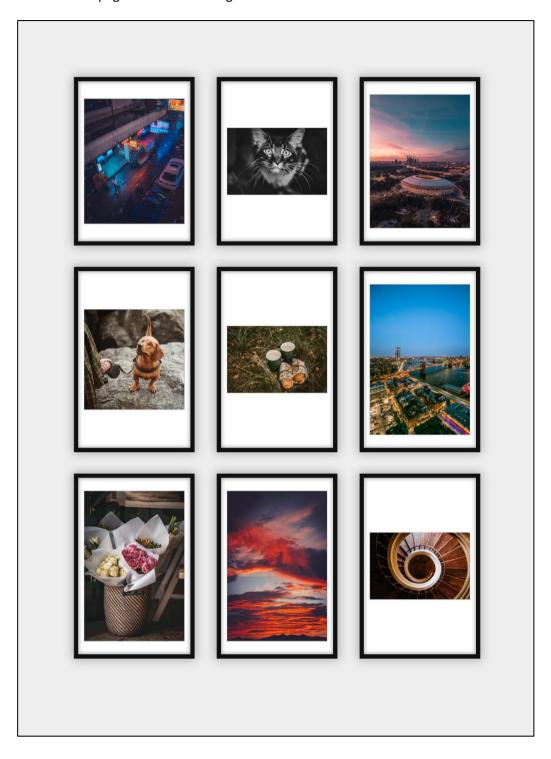






# 6. Photo Gallery - Flexbox

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?</li>

#### 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:

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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**

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

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:
  - o 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:
  - img tag
  - section
    - h3 tag
    - p tag
  - o footer















