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:
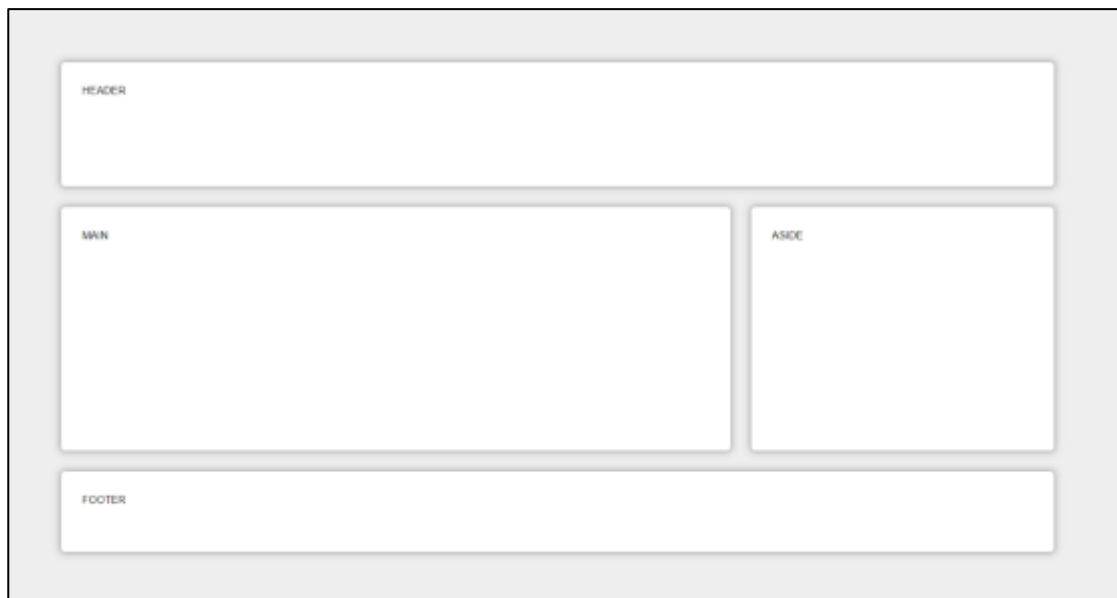
- Change the document **title** to "**Flexbox Layout**"

Requirements

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

2. FlexModel Articles

Create a web page like the following:

- 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:
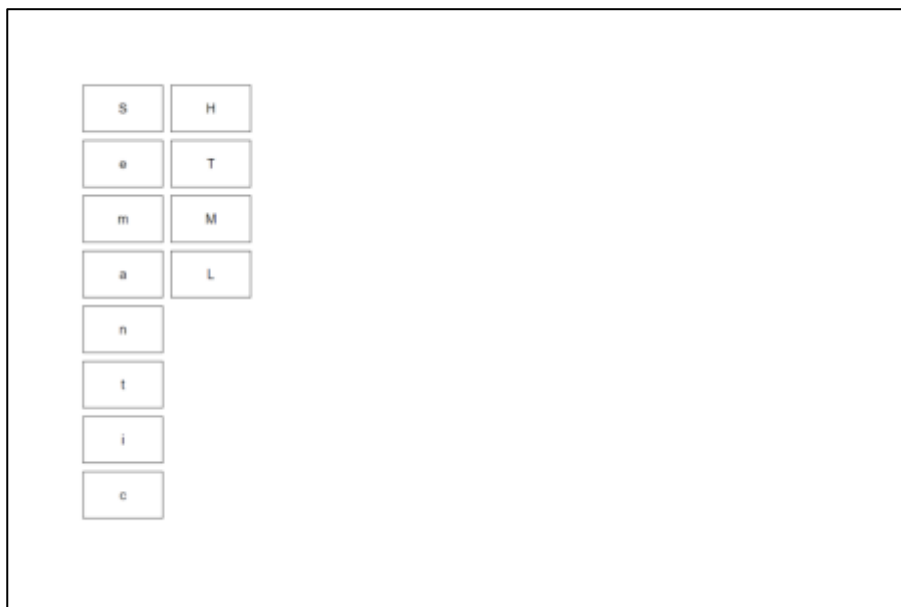
- Change the document **title** to "**ABC Game**"

Requirements

- 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**
  - Border color - **black**
  - Border style - **solid**
- To arrange the letters, use the **flex property order**

4. Calendar

Create a web page like the following:

- 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
  - 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**

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5. Navigation Flexbox

Create a web page like the following:

- Change the document title to "**Navigation - Flexbox**"

Requirements

- 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:
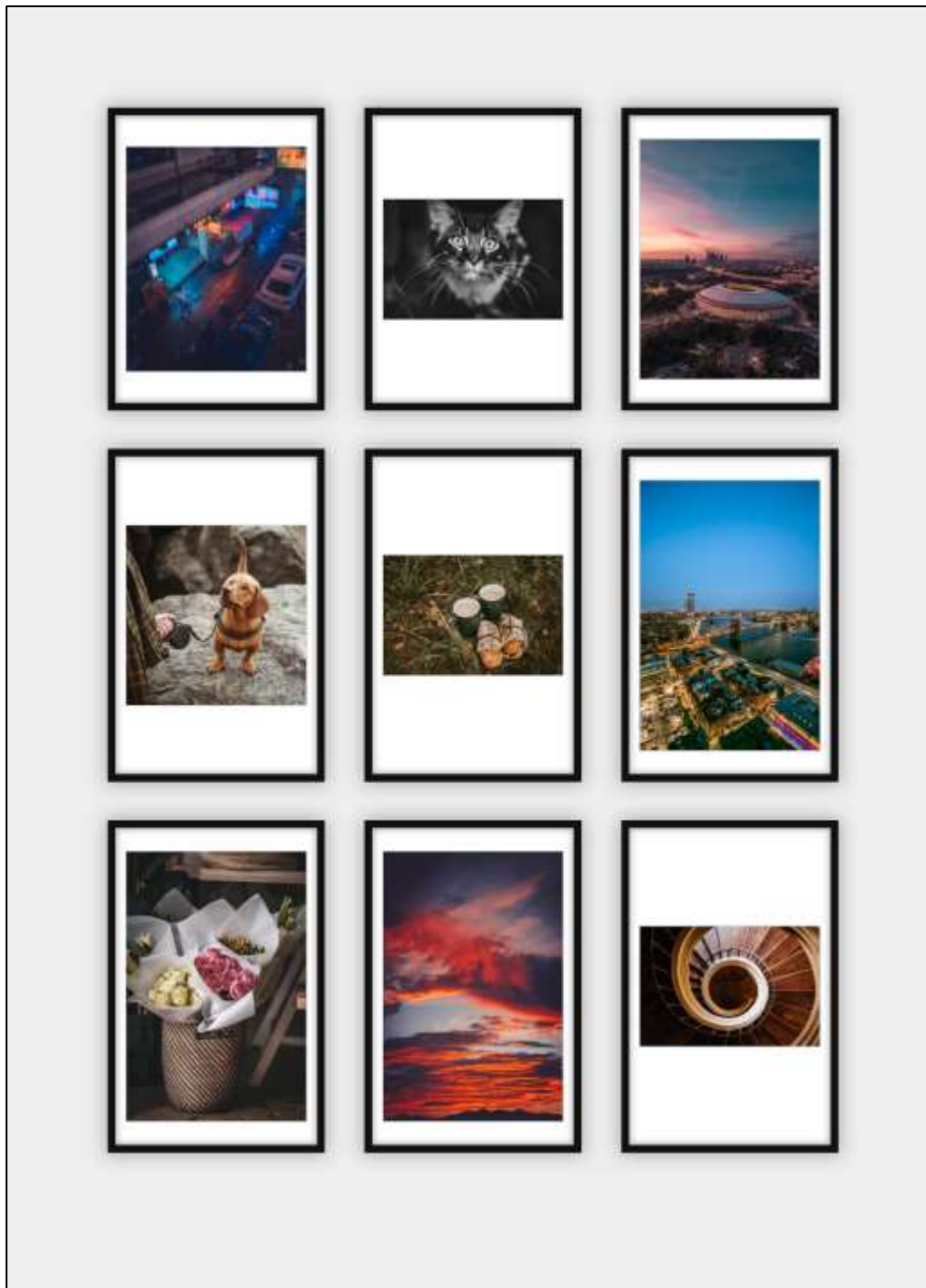
- Change the document title to "**Photo Gallery - Flexbox**"

Requirements

- Add section with class **gallery** (**section.gallery**)
- Add **unordered lis**t 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:
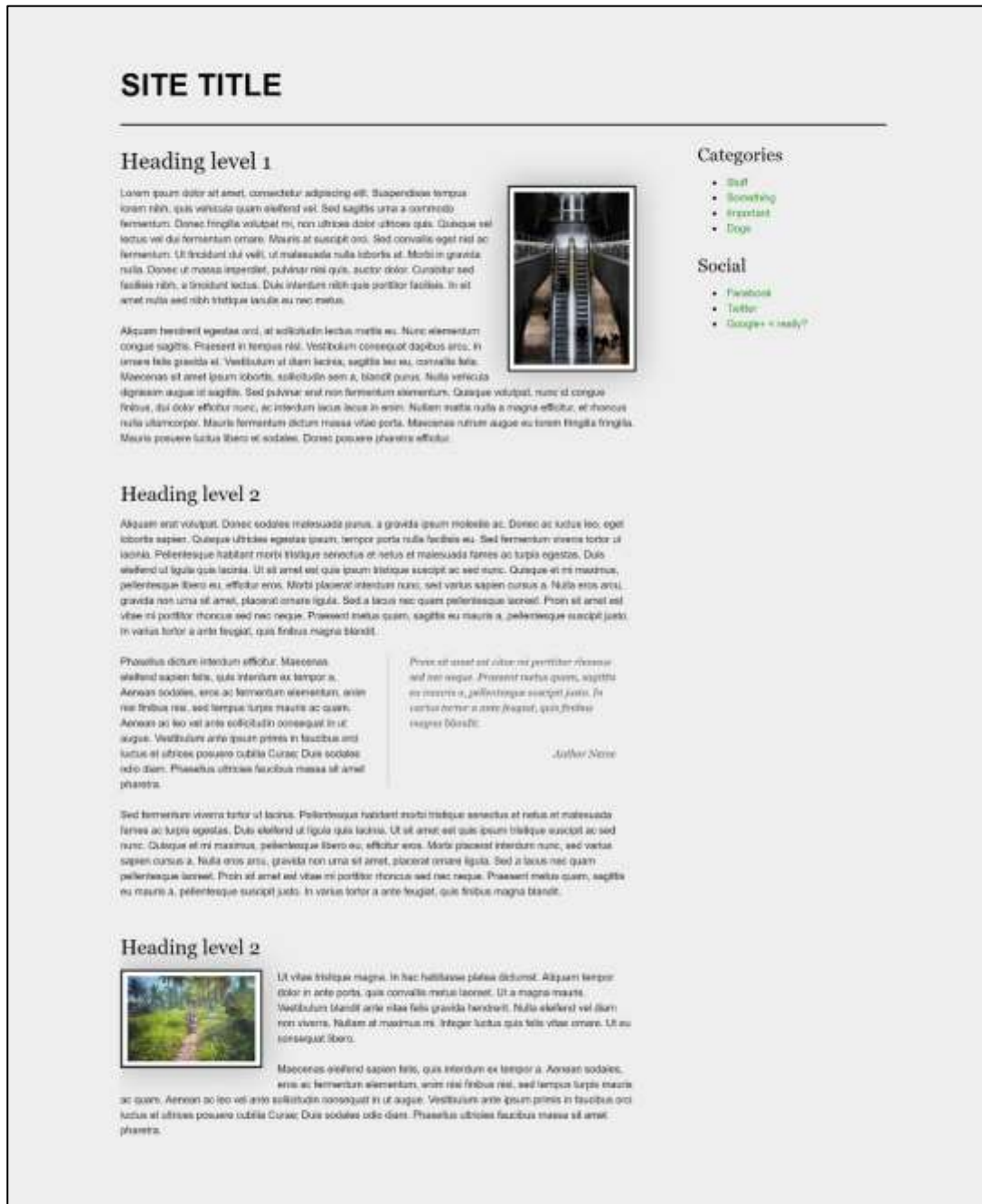
- Change the document title to "**Blog Layout - Flexbox**"

Requirements

- 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**

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8. Sticky Footer – Flexbox

Create a web page like the following:
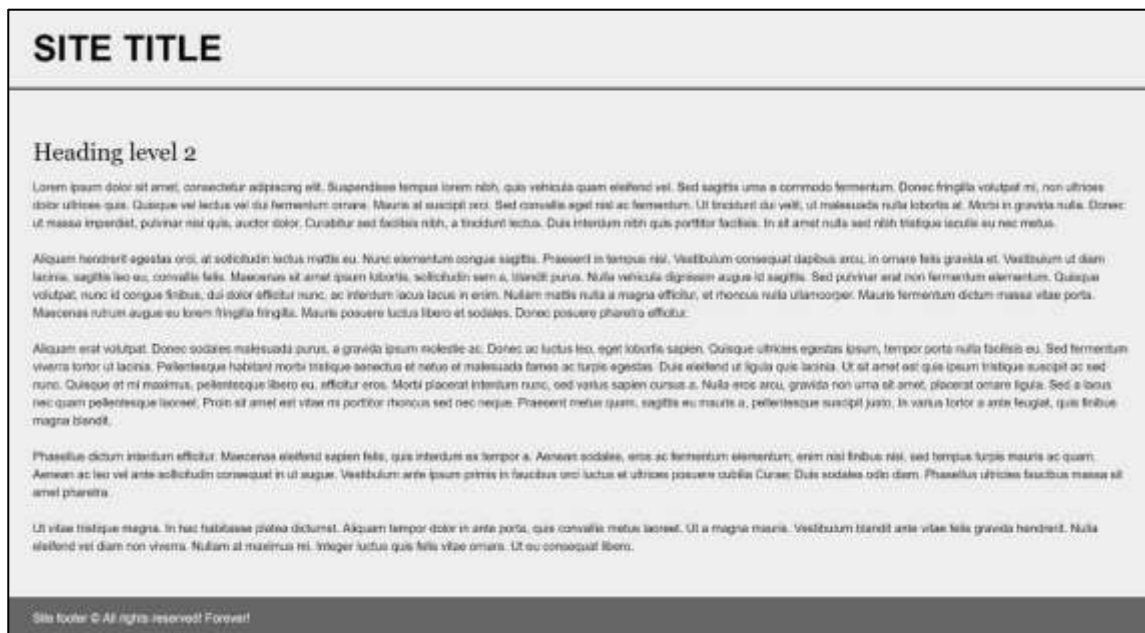
- Change the document title to "**Sticky Footer - Flexbox**"

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

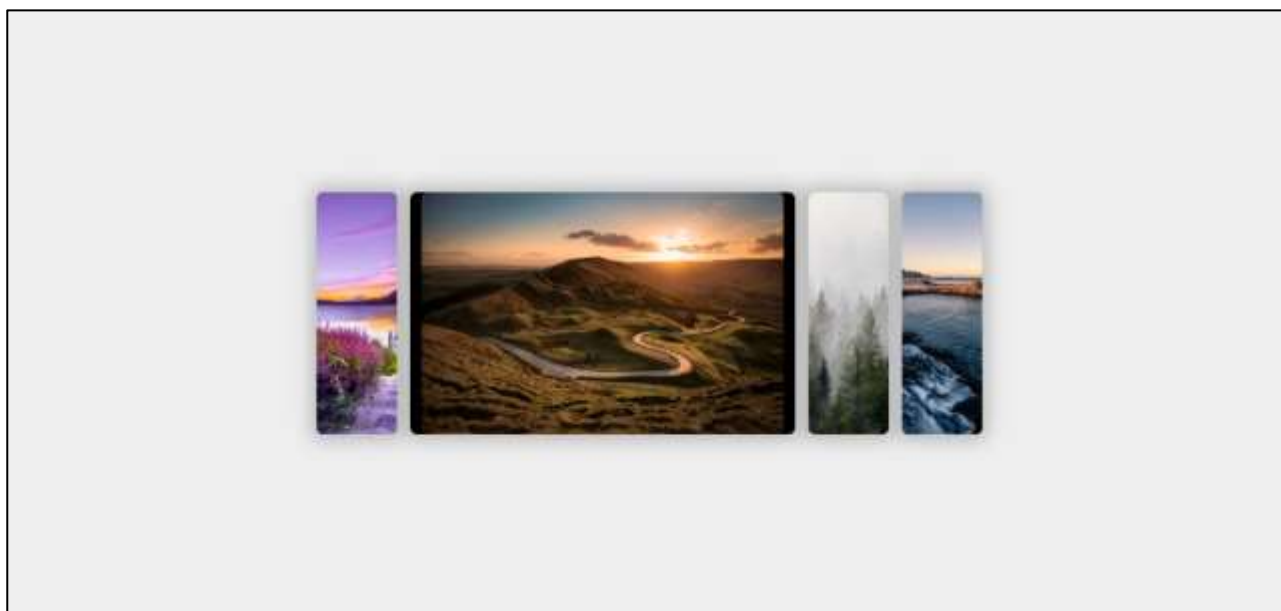Create a web page like the following:
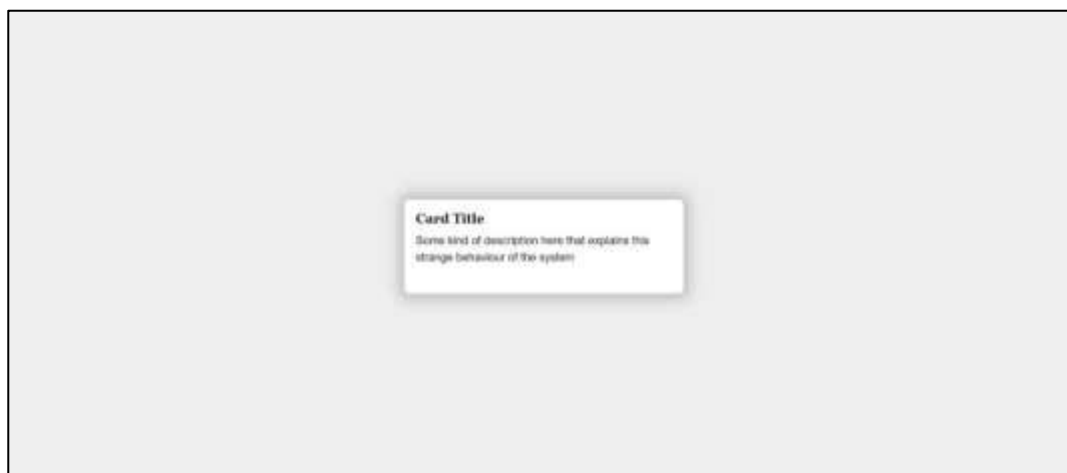
- Change the document title to "**Center Flexbox**"

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)`

10. Expanding Flex Cards

Create a web page like the following:

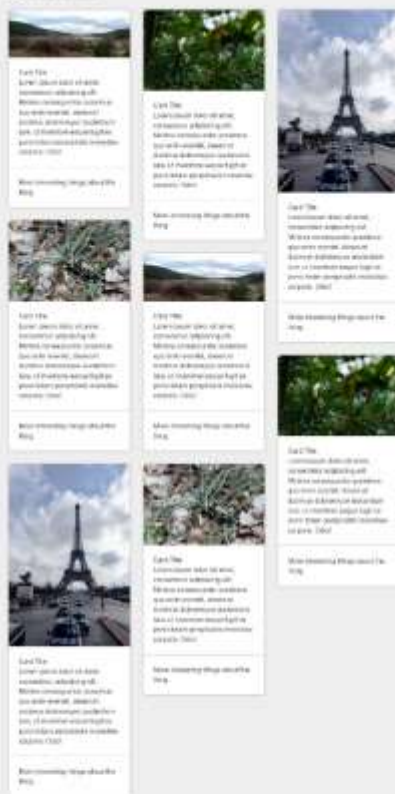- Change the document title to "**Expanding Flex Cards**"

Requirements

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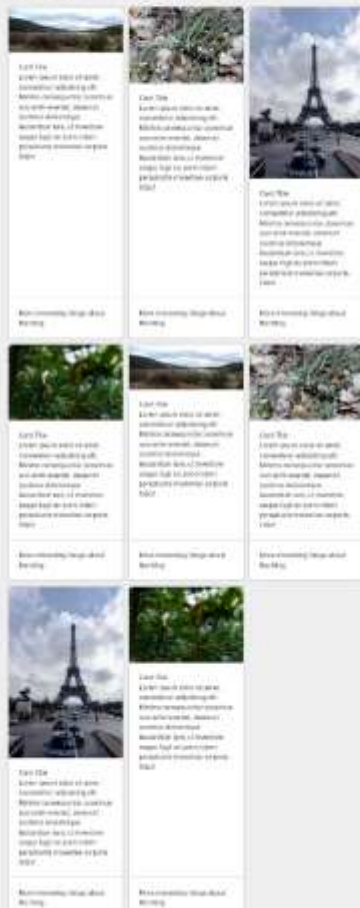- The container display property must be `flex`

11. Cards with CSS Columns and Flexbox

Create a web page like the following:

Layout Masonry

Layout Flex

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

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Requirements

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