
CSS

EXERCISES

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CSS EXERCISES

1. ONLINE NEWSPAPER DESIGN

- Unzip the following file into some folder:  [news.zip](#)
- You should have now 4 files: **index.html** (the main page of an online newspaper), **item.html** (a page representing a single article with comments), **register.html** and **login.html** (pages for users to register and login).
- Analyze the structure of these files.
- As you might have noticed, all pages reference 5 css files: **style.css** (styling the main components), **layout.css** (positioning the main components), **responsive.css** (making the page responsive), **comments.css** (design for the comments section) and **forms.css** (design for the login and register forms).
- Without changing the HTML files, try recreating a design by following these 5 steps:

1.1 MAIN STYLE

We will start by designing the main components of the main page without worrying about the positioning of any elements (**style.css**). The final result should be [this](#).

Some helper values:

- Main colors used: #2A2F33, #046DD5 and #F4655F.
- Section colors: #E1493E, #8ABA56, #5B4282, #FF8932, #19B6E9 and #E84C8B.
- Fonts used: Verdana and Georgia.
- Most paddings and margins are *1em*.

Tip: You may have noticed that the *nav* section contains an *input* and a *label*. These are just to be used in *exercise 1.3* You can start by hiding them using CSS for now.

1.2 POSITIONING

Then we will position the elements in their proper places (**layout.css**). The final result should be [this](#) .

Some helper values:

- The background color is #EDEFF0.
- The width of the page is *60em*.
- The sidebar occupies $\frac{1}{5}$ of the total width.

Tip: Use a *flexbox* for the menu and a *grid* to position the elements in the page.

1.3 RESPONSIVE DESIGN

We will now make the design responsive by establishing two break points (**responsive.css**):

- When the width of the window reaches **60em**, the sidebar should disappear and the page should occupy the full width (*100%*) of the window. The final result should be [this](#) .
- When the width of the window reaches **30em**, the menu should collapse into a pull-down menu, the subtitle should not be shown and each news

item title should be moved to above the item image. The final result should be [this](#).

Some helper values:

- Characters for the hamburger menu: `|2630 (≡)` and `|2715 (×)`.

Tip: Start by making the menu without any animations (using `display` to hide and show the menu items). After that, try using *transitions* to change the height of each menu item instead.

1.4 COMMENTS DESIGN

Add CSS rules (**comments.css**) to create the design for the comment section that can be seen in the **item.html** page. The final result should be [this](#).

Some helper values:

- Quote character for each comment: `|201C(“)`.

1.5 FORMS DESIGN

Add CSS rules (**forms.css**) to create the design for the register and login forms that can be seen in the **register.html** and **login.html** pages. The final result should be [this](#).

Make sure that in smaller screens, the form fills the content area like [this](#).

2. NO FLEXBOX/GRID DESIGN

Without using the *flexbox* and *grid* CSS layouts, try to recreate some designs.

- Copy the following HTML code: [news.html](#) into a new *.html* file.
- Open it and observe its structure.
- As you might have noticed, this document references a, not yet created, file named *style.css* as its style sheet. Create that file and modify it so


that the page appearance becomes as similar to the following designs as possible: [style 1](#) , [style 2](#) and [style 3](#)

- **Style 2** uses the following image:

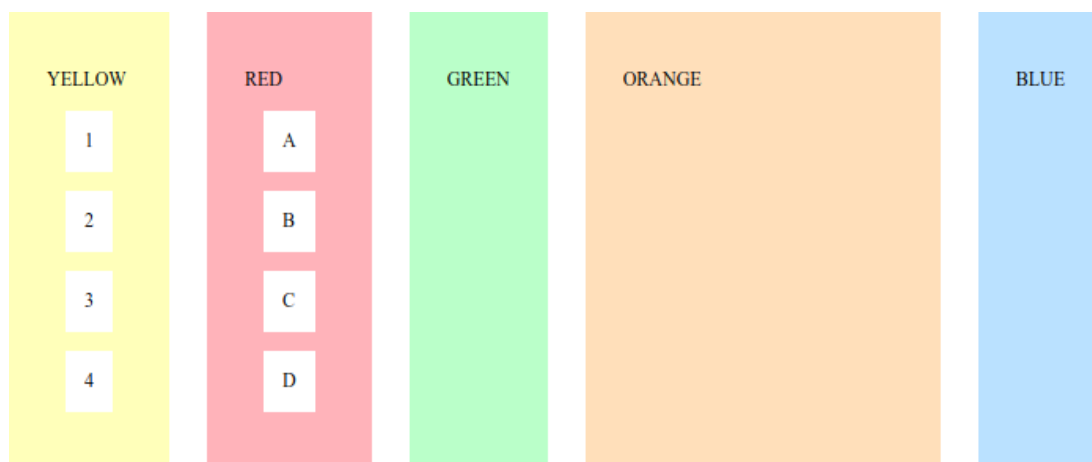


Extra: Now try the same exercises, this time using flexbox and grid layouts.

3. BLOCKS

- Unzip the following file into some folder:  [blocks.zip](#)
- Inside a file called **style.css**, try recreating each one of the four following designs using flexbox and grid layouts:

3.1



Tips:

- Use a flexbox layout for this one.
- Orange block uses the remaining space.

3.2

GREEN

YELLOW

1

2

3

4

ORANGE

BLUE

RED

A

B

C

D

3.3

YELLOW

1

2

3

4

BLUE

ORANGE

RED

D

C

B

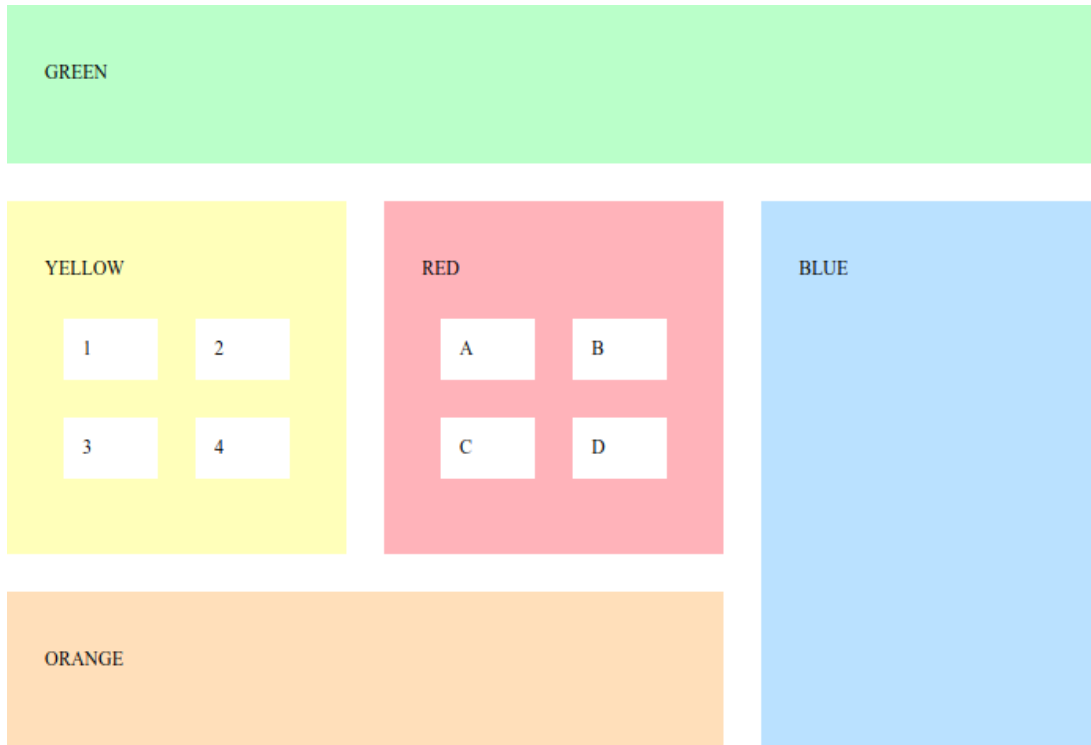
A

GREEN

Tips:

- First item in yellow block is three times the size of the others.
- Items in red block are reversed.
- Left column has $\frac{1}{4}$ of the total width.

3.4



Tips:

- Green and orange blocks have half the height of the red and yellow ones.

SOLUTIONS

Solutions for these CSS exercises.

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