

Exercise 1

For exercises 1.1–1.3, define for each exercise a solution in the form of a function, i.e. myFunction1_1 will implement the solution of 1.1, etc.

Define an HTML page which:

- loads the js file implementing the solutions to exercises 1.1–1.3
- has three divs with id "results_1_1", "results_1_2", "results_1_3", where you will write the results of each exercise

Include the call to the functions (myFunction1_1, etc.) in the onload of the body of the html file in order to test

Exercise 1.1

define a function taking an array as input and applying a function to all elements and printing out the results into the div results_1_1

- make sure to check the specific array methods (such as forEach, etc)

Exercise 1.2

define a function implementing the sum of the square of each element of the array above and print out the final result into the div results_1_2

Exercise 1.3

create an object composed of three fields: name, surname, age. Create an array of 10 objects and print them out into the div results_1_3

Exercise 2:

In the html above, implement a button with a label "Press Me" and capture the onclick event so to change the label on the button to "Thank You!"

Exercise 3:

capture the even of mouse over on the the div results_1_1 so that the background of the div turns red and goes back to the normal colour when the mouse moves away

Guided Exercise

Creata a row of divs with different background colours and create a button displaying one of them when clicked while hiding the others.

We will see two solutions:

- a simple one that uses a very direct approach operating on explicitly named divs
- a more interesting one that does not require naming the divs and can operate independently from the number of coloured divs contained in the page

Also: displaying and hiding will be performed differently in the two solutions:

- style.display assigned to 'block' and 'none' makes the objects disappear and the page reorganised
- style.visibility assigned to 'visible' and 'hidden' just makes the object appear and disappear but the objects keep their place in the page

Exercise 4:

Interactive Card Gallery



Måneskin

Måneskin is an Italian rock band formed in Rome in 2016. The band is composed of lead vocalist Damiano David, bassist Victoria De Angelis, guitarist Thomas Raggi, and drummer Ethan Torchio. Performing in the streets in their early days, Måneskin rose to prominence after coming second in the eleventh season of the Italian version of X Factor in 2017. Their international breakthrough occurred when the foursome won the Eurovision Song Contest 2021 for Italy with the song "Zitti e Buoni" (Wikipedia).

Close



Guns 'N Roses

Guns N' Roses is an American hard rock band from Los Angeles, California, formed in March 1985 when local bands Hollywood Rose and L.A. Guns merged. When they signed to Geffen Records in 1986, the band's "classic lineup" consisted of vocalist Axl Rose, lead guitarist Slash, rhythm guitarist Izzy Stradlin, bassist Duff McKagan, and drummer Steven Adler. The current lineup consists of Rose, Slash, McKagan, guitarist Richard Fortus, drummer Frank Ferrer, and keyboardists Dizzy Reed and Melissa Reese (Wikipedia).

Close



Taylor Swift

Taylor Alison Swift (born December 13, 1989) is an American singer-songwriter. Recognized for her songwriting, musical versatility, artistic reinventions, and influence on the music industry, she is a prominent cultural figure of the 21st century.

Close

```
<div class="card custom-card d-flex flex-column">
```

Create the above page. Each element is a Bootstrap card.

When the mouse is over the text, the div has a coloured background, going back to the original colour when the mouse moves away.

When you click on the button, the card is removed (use `<element>.remove()` to remove an element).

Define the card container as:

```
<div id="col2" class="d-flex align-items-stretch">
  <div class="card d-flex flex-column">
```

to create columns (`d-flex flex-column` for `col2`) and to make all the cards the same height (`d-flex align-items-stretch` in the card). Note - you may want to add other classes to insert the columns into a grid.

The images are the same used last week for the bootstrap exercise.

Finally, modify the page so that when you click on each of the images, the image is replaced with another (e.g. clicking on the image of the Maneskin, that is replaced by another image of the Maneskin).

See video for further details.