

NWEN304 JavaScript & jQuery Exercise

This exercise helps you to start familiarizing with JavaScript and jQuery.

Supporting materials:

- The **Web page templates** for all tasks can be downloaded from our course website. Please use these templates for your work.
- Please follow the instructions provided in the **lecture notes** on “Introduction to JavaScript and jQuery”. You can find most of the JavaScript code for this exercise from the lecture notes.

Task 1: Building a one-page FAQ

- Download the Web page template, including the jQuery library and necessary CSS files, from our course website (all files needed are provided together through a zip file).
- Modify the Web page and write JavaScript code to ensure that:
 - All answers are hidden when the FAQ Web page was first loaded in a browser.
 - Upon clicking a question, the corresponding answer will be displayed on screen.
 - When clicking the same question again, the answer will disappear.
- A screenshot of the completed Web page is given in Fig. 1.

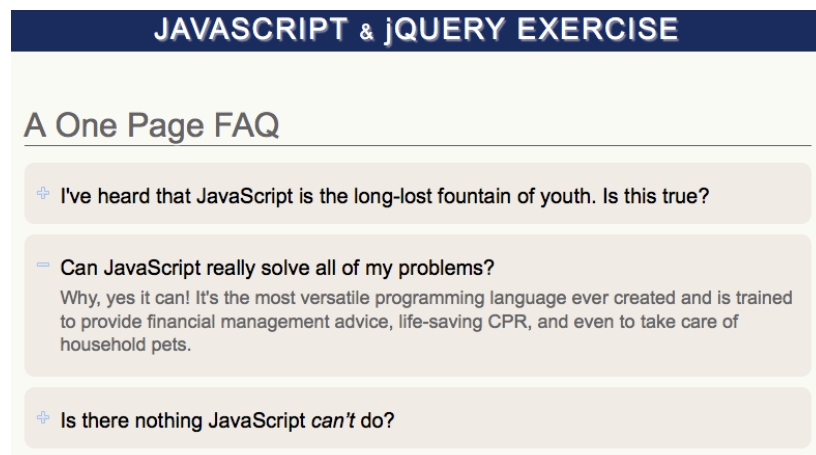


Fig. 1: A one-page FAQ.

Task 2: Implementing an animated dashboard

- Download the Web page template, including the jQuery library, jQueryUI plugin and necessary CSS files, from our course website (all files needed are provided together through a zip file).
- Modify the Web page and write JavaScript code to ensure that:
 - When moving the mouse cursor to the left edge of the Web page, the dashboard will slide in from the left. The background color of the dashboard will be darkened in the meantime.
 - When moving the mouse cursor away from the dashboard, the dashboard will slide out to the left edge of the Web page. In the meantime, the background color of the dashboard will become lighter.

- The dashboard can respond to mouse move quickly. Particularly, after stop moving the mouse cursor, the dashboard should stop its animation quickly.
- A screenshot of the completed Web page is given in Fig. 2.

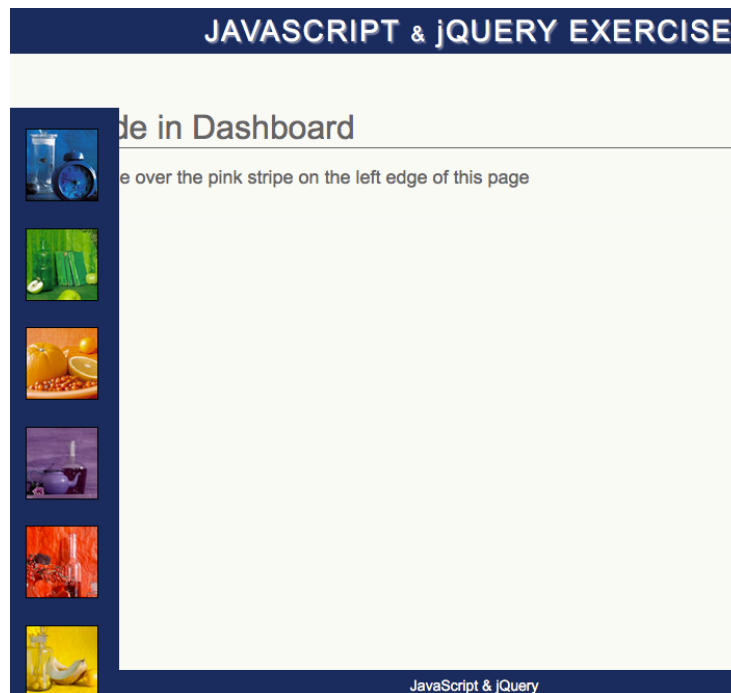


Fig. 2: A moving dashboard.

Task 3: Creating a dynamic photo gallery

- Download the Web page template, including the jQuery library and necessary CSS files, from our course website (all files needed are provided together through a zip file).
- Modify the Web page and write JavaScript code to ensure that:
 - A randomly selected image from the gallery will be displayed in the photo area when the Web page was first loaded.
 - Whenever a user clicks on another image in the gallery, the chosen image will be displayed in the photo area. Existing image in the photo area will be removed simultaneously.
 - After every 30 seconds, a different image (e.g. the subsequent image in the gallery) will replace the current image and be displayed in the photo area.
- A screenshot of the completed Web page is given in Fig. 3.



Fig. 3: A dynamic photo gallery.

Task 4: Developing a news headline page

- Download the Web page template, including the jQuery library and necessary CSS files, from our course website (all files needed are provided together through a zip file).
- Modify the Web page and write JavaScript code to ensure that:
 - When the page was first loaded in a browser, today's news will be displayed in the headlines area.
 - After clicking a link (either today's news, yesterday's news, or last week's news), the corresponding news will be displayed in the headlines area.
 - The background color of the most recently clicked link is red.
 - When the page was first loaded in a browser, the background color of the today's news link is red.
- A screenshot of the completed Web page is given in Fig. 4 (note that links' background color is not properly updated).



Fig. 4: A news headline page.