

## Extra 6-1 Modify a Slide Show application

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In this exercise, you will modify the Slide Show application of figure 6-15 so it uses Previous and Next buttons instead of an interval timer to move from slide to slide.



1. Open the HTML and JavaScript files in this folder:

`exercises_extra\ch06\slide_show\`

Then, run the application to see the buttons that have been added below the slides. Note, however, that the buttons don't work, and the slides are advancing based on an interval timer.

2. In the JavaScript file, replace the interval timer with an event handler for the Next button. That handler can use the same code for advancing the slides that the interval timer used.
3. After the event handler for the Next button, add an event handler for the Previous button. This will require a minor modification to the code that's used for advancing the slides. However, this requires some careful thought about how the image counter variable needs to be adjusted when going from one slide to the previous slide, especially when going from the first slide to the last slide.
4. **For those looking for additional challenge:** Once you have both the event handlers working for the Next and Previous buttons, add timers to advance the pictures every 5 seconds, even if no button is clicked. The timers should be set so that the buttons advance the pictures except when no button is clicked for 5 seconds. When this occurs, advance the picture as though the Next button had been clicked. This requires adding two instructions to both event handlers:  
`clearTimeout(timer);`  
`timer = setTimeout ( function, delayTime);`

Hint: This function for the timeout can be the same function used for the event handler for the Next Button since it will do the same thing. Unless you clear the timer before starting another timer, you can get duplicate timers running at the same time.