

# INLS 672

## Web Development 2

### Assignment 7

5 points

Due Friday, May 14, end of day



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# Web Performance Quiz

## ***Answer the following questions:***

Content Layout Shift (CLS) is one of the metrics measured by Core Web Vitals.

- 1) Images are a common cause of CLS -- why, and how can you prevent?
- 2) If a web font does not load quickly, it may result in FOIT or FOUT. Why would this cause a layout shift?

Render-blocking resources are those that can block the first paint of your page. JavaScript functions that are responsible for populating some part of your page can be render-blocking resources.

- 3) In the [cary-parks.html](#) example, which JavaScript function can block the initial rendering of the page?

You can use browser developer tools to find out the number of requests and number of bytes transferred for a page (see Web Performance, slide #14). In the example screenshot, there are 2 numbers for the number of bytes: 3.0 MB transferred, and 4.5 MB resources.

These numbers both represent the size of the resources on the page.

- 4) Why are they different?
- 5) How would the difference affect page load time?

***Include your answers in an email and send to [jdboone@email.unc.edu](mailto:jdboone@email.unc.edu)***