

Application Engineering Short Take Home Problem

Write a function that will highlight phrases in a document given a string and an array of highlight objects. If highlights overlap, show the higher-priority highlights over the lower-priority highlights.

Example Input:

```
const string = 'You will deliver new technology with an adorable puppy. Perfect!';
const highlights = [
  {
    startOffset: 4,
    endOffset: 20,
    color: '#d9f593',
    priority: 0, // lower numbers are higher in priority
  },
  {
    startOffset: 17,
    endOffset: 31,
    color: '#e8e8e8',
    priority: 1,
  }
  // More highlight data goes here
];
```

Example Output:

You will deliver new technology with an adorable puppy. Perfect!

When called, this function should erase the previous render, then render out the new text with highlights. It is not necessary to handle any additional formatting or markup on the page other than the highlights.

Note that you will have the opportunity to use your solution to this problem as part of your solution to the final take home problem for Textio.

At Textio, we don't work alone and we don't usually get completed specification documents – for the purposes of this exercise think of me as a Project Manager and Lead Engineer and please ask questions as they come up!

You are encouraged to use any framework and/or libraries you think will allow you to show us your best work. If you're looking for a place to start, we're pretty fond of [Create React App](#) as a tool for quickly getting up and running in a modern UI framework.

We expect the problem to take about 3 hours to solve; note that we value working, readable, and maintainable solutions over algorithmic perfection. When you're done, upload your solution to Dropbox using the link we provided in the email. Please upload your work at least 24 hours in advance of our meeting so that we have time to look it over.

The Interview

During our conversation we'll talk about your background and interest in Textio, your solution for the problem, and any difficulties or problems you didn't have time to work through. Your code will be a great jumping off point for the discussion!