

Natural Cycles Frontend Challenge

Use any framework/tool/library that you consider appropriate. There are no restrictions in that sense.

Requirements

You need to create a JavaScript solution to make a variable length text fit inside a container with flexible width but fixed height.

An HTML page should present a form with a **text input** and a range **slider input**.

The page must also have a div (let's call it "**output div**") with a 1px visible border and height of 50px (height of this div shouldn't change under any circumstances).

The output div must display the text of the form's input.
When the text is updated the output div's text should also be updated.

The slider should change the width of the output div.

The purpose of the solution is to "fit" the input text into the div in one line (no line breaks) within the div height and using the maximum possible integer **font-size**.

Typical use case for this solution would be when you have a button with width/height restrictions set by designer, but the text length can be different depending on the language of the text.

Real world example is iPhone's phone app when you try to dial a number and as you enter more and more digits the font-size gets smaller.

The API of the solution should be something similar to `fitText('element selector');`

The form's text input and range slider position should be persisted between page reloads.

Please put the result project in a public github repository and provide a link to it. Please make it easy for us to test the result.

Optional

You're free to accomplish these additional goals to get the higher score if you want!

1. Unit test the solution.
2. After you finish implementing the solution write a suggestion/s of how this solution can be improved.