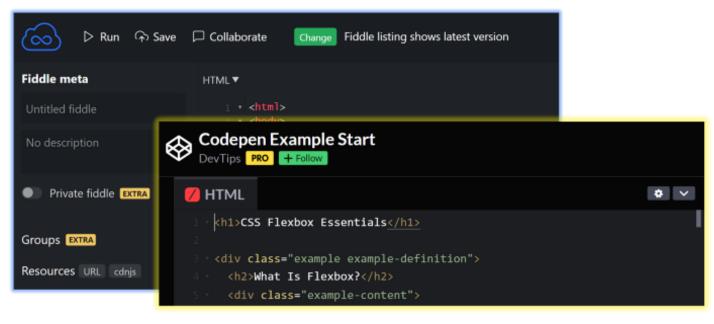


# **Enable Line Numbering to any HTML Textarea**

Lightweight solution without code editor plugins

While browsing through code snippets online, a handful of code demonstrations are implemented in code playgrounds such as <u>JSFiddle</u> and <u>CodePen</u>:



Screenshot by Author | In-browser code editors of jsfiddle and codepen respectively. Usually such platforms include both syntax highlights and line-numbering functionalities.

More often than not due to the nature of code playgrounds where multiple programming languages are implemented onto a single platform, it is more efficient to implement plugins such as <u>CodeMirror</u> which offers multiple features such as autocompletion, customlanguage syntax highlights, line numbering etc.

However, when a more simplistic code editor is required instead — where only **line numbering** is needed, embedding a code editor plugin such as <u>CodeMirror</u> could be an overkill. Fortunately, there is a way to enable line numbering to any HTML Textarea element with just a few lines of Vanilla JavaScript code and CSS styling.

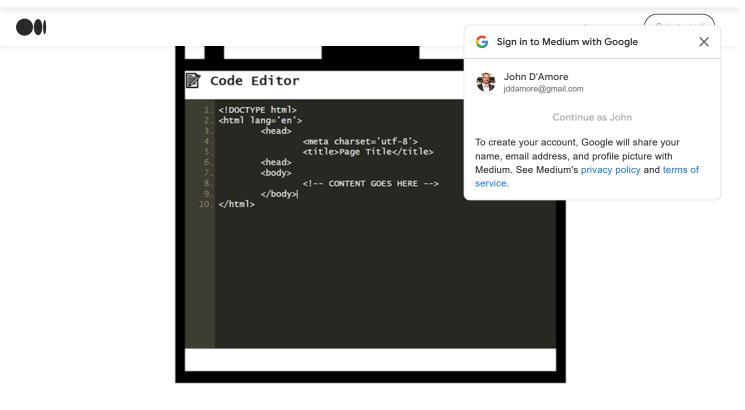


Illustration by Author | Screenshot of minimalistic in-browser code-editor

FYI: The HTML file to render the above can be retrieved from my GitHub at codeEditor.html

There are 3 parts to the code implementation—(1) HTML markup code for Textarea, (2) CSS Styling and (3) JavaScript code snippet

#### (1) HTML markup code for Textarea

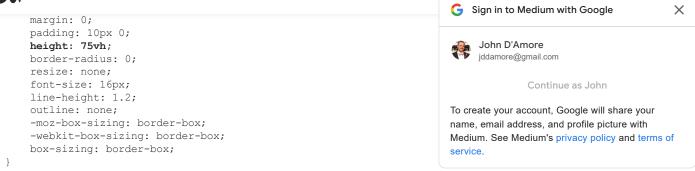
<textarea id='lineCounter' wrap='off' readonly>1.</textarea><textarea id='codeEditor' wrap='off'>
</textarea>



Illustration by Author | Each line of the code editor is in fact displayed via another Textarea. This is displayed in the above as element id='lineCounter'

#### (2) CSS Styling





The following code snippet removes the outline displayed for a Textarea upon selection:

```
#lineCounter:focus-visible,
#codeEditor:focus-visible {
    outline:none;
}
```

After determining the width for 'lineCounter' (e.g. width is **3.5 rem**):

```
#lineCounter {
    display: flex;
    border-color: transparent;
    overflow-y: hidden;
    text-align: right;
    box-shadow: none;
    color: #707070;
    background-color: #d8d8d8;
    position: absolute;
    width: 3.5rem;
    /* Determine appearance of line counter */
    background-color:#3E3D32;
    border-color:#3E3D32;
    color:#928869;
}
```

The 'padding-left' property of 'codeEditor' should be stated corresponding (note that I placed an extra 5px of spacing so it would look less cramped):

```
#codeEditor {
    padding-left: calc(3.5rem + 5px);
    width:100%;
    /* Determine appearance of code editor */
    background-color:#272822;
    border-color:#272822;
    color:#ffffff;
}
```

#### (3) JavaScript code snippet

Both Textarea components are referenced as:

```
var codeEditor = document.getElementById('codeEditor');
```



}

});

```
codeEditor.addEventListener('scroll', () => {
    lineCounter.scrollTop = codeEditor.scrollTop;
    lineCounter.scrollLeft = codeEditor.scrollLeft;
});
```

To enable the **■ [Tab** 🔄 key to be input into the code editor component:

```
codeEditor.addEventListener('keydown', (e) => {
      let { keyCode } = e;
      let { value, selectionStart, selectionEnd } = codeEditor;
if (keyCode === 9) \{ // TAB = 9
        e.preventDefault();
        codeEditor.value = value.slice(0, selectionStart) + '\t' + value.slice(selectionEnd);
        codeEditor.setSelectionRange(selectionStart+2, selectionStart+2)
```

Finally, the code snippet to output the line counter display:

```
var lineCountCache = 0;
function line counter() {
     var lineCount = codeEditor.value.split('\n').length;
     var outarr = new Array();
     if (lineCountCache != lineCount) {
         for (var x = 0; x < lineCount; x++) {
            outarr[x] = (x + 1) + '.';
         lineCounter.value = outarr.join('\n');
      lineCountCache = lineCount;
codeEditor.addEventListener('input', () => {
    line counter();
});
```

#### **Trying it out:**

```
Code Editor
                          <meta charset='utf-8'>
<title>Page Title</title>
                           <!-- CONTENT GOES HERE -->
```

53 | Q 1 Screencapture by Author | Typing HTML code input into the reflected code editor. Note that the colours of the editor and line counter component can be customised in the CSS.









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Note: Just in case you have missed out the link to the full source code, feel free to retrieve i

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