

Summer of Code '19		Page	1/2
Date Posted	22/05/2019		
Assignment1	HTML, CSS, DOM	Deadline	28/05/2019
Designer	Yugesh Kothari	Submission	Github — Form will be floated

1 Statement Motivation

By this time all of you must be familiar with HTML tags, basic DOM elements and simple CSS styling. The idea of this assignment is for you to see if you can bring them all together.

1.1 Statement

We will try to implement a window inside the very window open on your browser at the very moment. There are multiple specifications that this *inner* window could adhere to and you may decide to make them one by one progressively.

1.1.1 Simple Window

All we try to do in the first spec is to see a smaller window inside the main window (which at this point is say `../index.html`) which opens up to `www.google.com`. A rough page appearance should have a heading on top saying "My First sub-window" and then there should be a box below it with `www.google.com` open inside it.

At this point you may decide to keep the size of this window 300x200px.

1.1.2 Adaptable Window

Now that we have a window setup, we want to be able to resize our *outer* browser window and have the smaller *inner* window change in size with it.

Hint : You need to keep the size relative to something - absolute sizes won't do.

1.1.3 Modifiable Adaptable Window

Mundane `www.google.com` is not fun - although `www.facebook.com` is! We now want to have the option to be able to choose which website to go to in the smaller window. For now, our choices could be finite (say maintaining a small list of websites - clicking on any one of them should direct us to that website inside the *inner* window.

Atleast 3 websites to choose from!

1.1.4 Browser-Modifiable Adaptable Window

Well, a static list is fine and all but wouldn't it be great to have the option to enter the URL into a text field and press a button? Let's do that! Create a textbox and a button that says "GO!" - the user should be able to enter the URL and press "GO!" to get to that website in this *inner* window.

Hint : Think about forms.

1.1.5 Re-sizeable Browser-Modifiable Window

Well, adaptable is nice and all but what we would really want is for our *inner* window to be manually re-sizeable (like we do to out browser windows!) Lets try to do that! We now want a re-sizing option which could be implemented in two ways - Let's focus on way 1 for now : Allow the user to enter size in px and set that to the inner window.

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<p>1.1.6 Well, if you've gotten this far maybe you'd be willing to go a bit further</p> <p>Well, it seems you've made it this far! You now have a small browser inside your browser (well not technically, but okay). This last challenge involves a bit of clever JavaScript so that we can re-size by clicking on the lower right corner of the <i>inner</i> window and dragging the cursor around (you get what I mean, right?)</p> <h2>2 Submission</h2> <p>Feel free to ask questions about how to do this assignment on the #assignment channel. The submission will be through a google form where you will submit links to your GitHub repos. For simplicity sake we recommend that you do the challenge in steps as suggested above and keep a different index_[number].html page for each. However, feel free to be a hero and just skip to the last one directly! (in which case you would only have index_6.html)</p> <p>P.S. - This assignment was typed out in a span of 10 minutes so feel free to point out errors!</p> <p>P.P.S. - We might use automated scripts to check your submission so please keep page names as index_[number].html only and keep them all in the base directory of the repository (numbering starts from 1 not 0).</p>	Optional
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