

HTML5 Authoring with Mark Lasso

Section 6: Google Fonts

For much of the early years of the web typeface selection was very limited. For a font to display, the font had to be installed on the end users' machine. Because of this, most web developers and designers stuck to the basics-- Times New Roman, Arial, and so on.

Over the past few years, several technologies have been introduced to provide designers with a wider variety of typefaces to choose from.

Most people use the terms "font" and "typeface" interchangeably. In reality, these terms have different meanings. "Typeface" refers to the design of type. Baskerville is a typeface. "Font" refers to the physical file that holds the typeface information. So next time, you can correctly say that you're downloading a font so that you can install at typeface.

Google Fonts is one of the options that have appeared in recent years to give designers more control over the appearance of type within their digital documents.

After completing this section you will:

- ☐ Navigate the Google Fonts Site
- ☐ Selecting Fonts to Use
- ☐ Adding Google Fonts Code to Your HTML
- ☐ Understanding Font Variants in Google Fonts

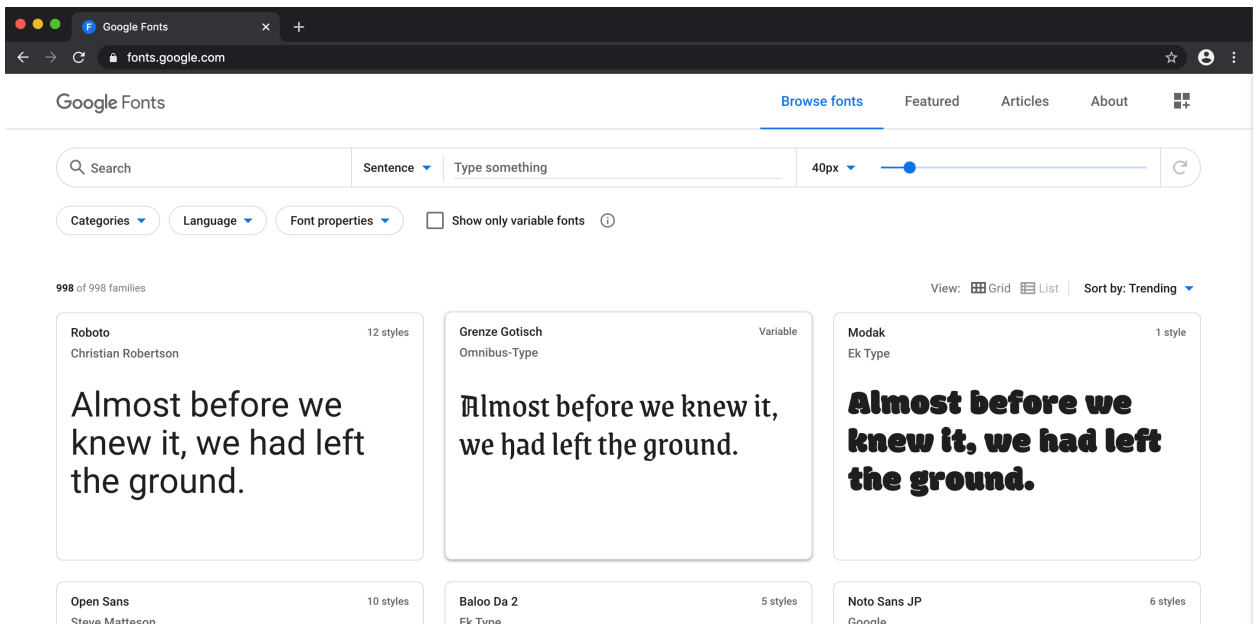
Watch This: HTML5 Section 006 Video

As always your course videos are available on YouTube, Roku, and other locations. However, only those officially enrolled have access to this course guide, can submit assignments, work with the instructor, and get this guide.

Watch the section video at <https://www.youtube.com/watch?v=dualjljhEUE>

Navigating the Google Fonts Site

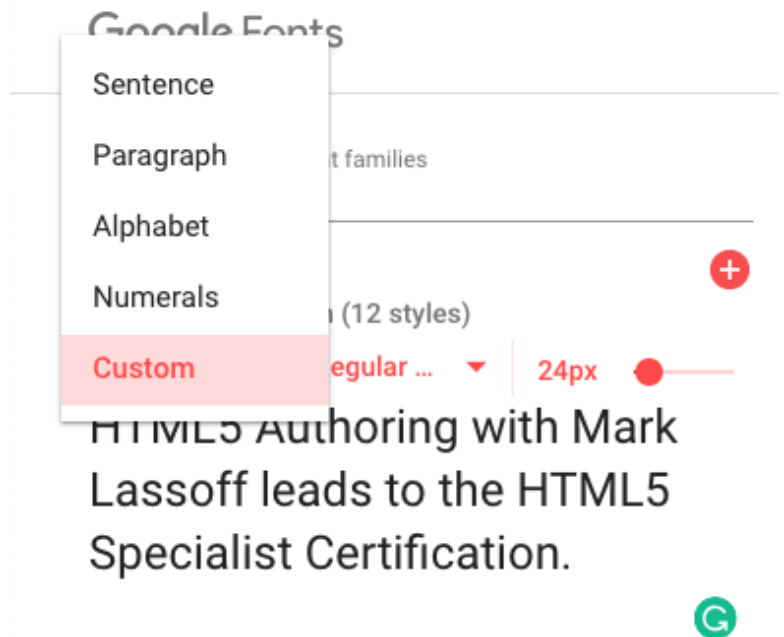
The Google Fonts site is, not surprisingly, located at <https://fonts.google.com/>. The interface is easy to use and designed to help you narrow down the fonts you have to choose from through filters located in the right side of the interface.



The sort and filter features allow you to find just the right typeface. First, you can make entire categories of fonts visible or hide them by adjusting the check marks. For example, if you only wanted to see sans-serif typefaces, you could remove all the check marks except sans-serif.

Below the categories, you can adjust the manner in which the individual typefaces are sorted and the languages available. Finally, there are sliders for elements like thickness and width that allow you to refine the available fonts.

Pointing at any individual typeface category with your mouse will yield additional options.



[APPLY TO ALL FONTS](#) [SEE SPECIMEN](#)

Clicking on the typeface name will send you to the detail page for the selection.

+ SELECT THIS FONT

Characters

ABCČĆĐĚFGHIJKLMNOPQRSŠTUVWXYZ
ŽabcčćďěfghijklmnopqrsštuvwxyzžАБВГ
ГДЂЕЁЄЖЗСИІЇЈКЛЉМНЊОПРСТѢУЎФ
ХЦЧѰШЩЪЫЬЭЮЯабвгдђеєжзсиіїјкл
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Styles

Type here to preview text

Designer



About

Roboto has a dual nature. It has a mechanical skeleton and the forms are largely geometric. At the same time, the font features friendly and open curves. While some grotesks distort their letterforms to force a rigid rhythm, Roboto doesn't compromise, allowing letters to be settled into their natural width. This makes for a more natural reading rhythm more commonly found in humanist and serif types.

This is the regular family, which can be used alongside the **Roboto Condensed** family and the **Roboto Slab** family.

To contribute, see github.com/google/roboto

Selecting a font that you would like to include in your digital document is easy. On both the typeface selection screen and the typeface detail screens, you'll see a red '+' sign. If you click it, the typeface will be added. You'll see an indicator at the bottom of your screen where it says, "1 Family Selected".

Click the indicator, and you'll see a dialog box open at the bottom of your screen.

1 Family Selected

Your Selection

Clear All

Source Sans Pro

EMBED

CUSTOMIZE

Load Time: Fast

Embed Font

To embed your selected fonts into a webpage, copy this code into the <head> of your HTML document.

STANDARD

@IMPORT

```
<link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro" rel="stylesheet">
```

Specify in CSS

Use the following CSS rules to specify these families:

```
font-family: 'Source Sans Pro', sans-serif;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).

You can add multiple fonts by merely clicking the add font button on other typefaces through the Google Fonts interface.

Read this dialog box carefully-- It provides all the information you need to add the Google fonts to your document.

If consistent branding is important to you, you might want to use these typefaces in your printed documents as well. You can download the fonts by clicking the download arrow in the upper right-hand corner of the dialog box.

HTML5 SPECIALIST CERTIFICATION

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Adding Google Fonts Code to Your HTML

For our sample document, I have selected a typeface called **News Cycle**. The dialog box reveals the following:

To use the font, copy and paste the relevant code from the dialog box. The resulting HTML should be similar to the code below:

Embed Font

To embed your selected fonts into a webpage, copy this code into the <head> of your HTML document.

STANDARD **@IMPORT**

```
<link href="https://fonts.googleapis.com/css?family=News+Cycle:700" rel="stylesheet">
```

Specify in CSS

Use the following CSS rules to specify these families:

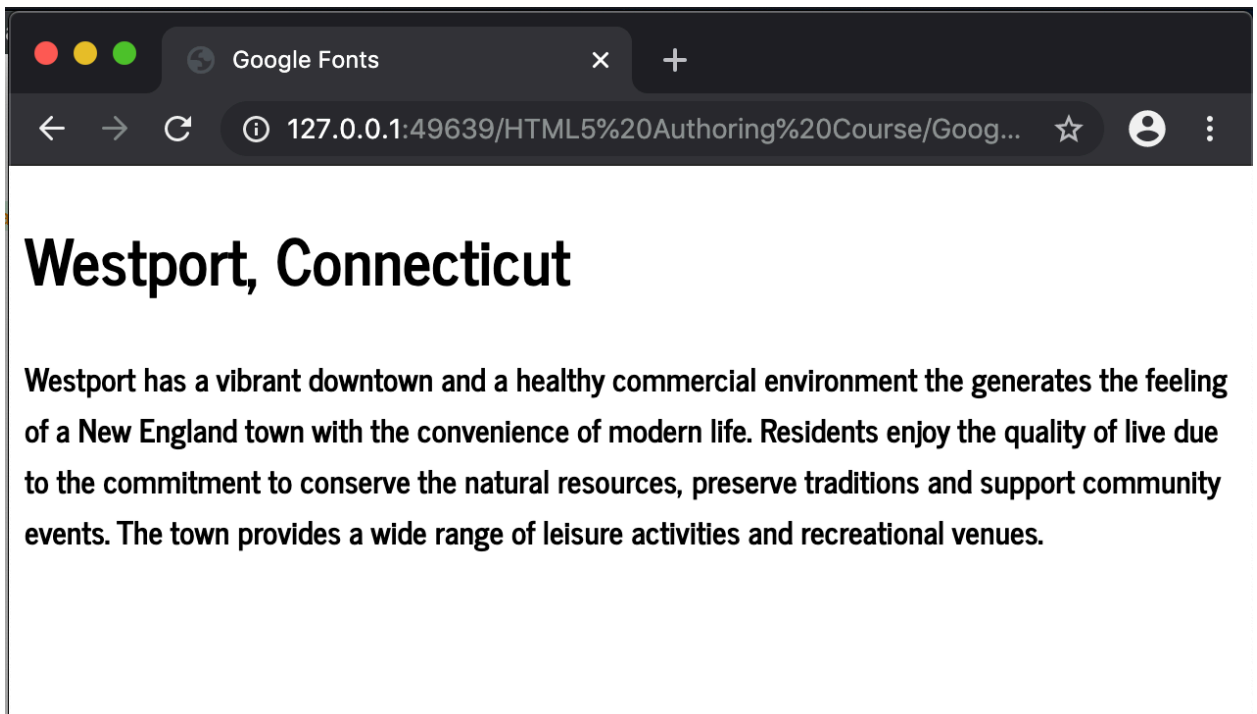
```
font-family: 'News Cycle', sans-serif;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).

```
<!DOCTYPE html>
<html>
  <head>
    <title>Google Fonts</title>
    <link href="https://fonts.googleapis.com/css?
family=News+Cycle:700" rel="stylesheet">
    <style>
      #container {
        font-family: 'News Cycle', sans-serif;
      }
    </style>
  </head>
  <body>
```

```
<div id="container">
<h1>Westport, Connecticut</h1>
<p>Westport has a vibrant downtown and a
healthy commercial environment the generates
the feeling of a New England town with the
convenience of modern life.
Residents enjoy the quality of live due to the
commitment to conserve the natural resources,
preserve traditions and support community
events. The town provides a wide range of
leisure activities and recreational venues.
</p>
</div> <!-- container -->
</body>
</html>
```

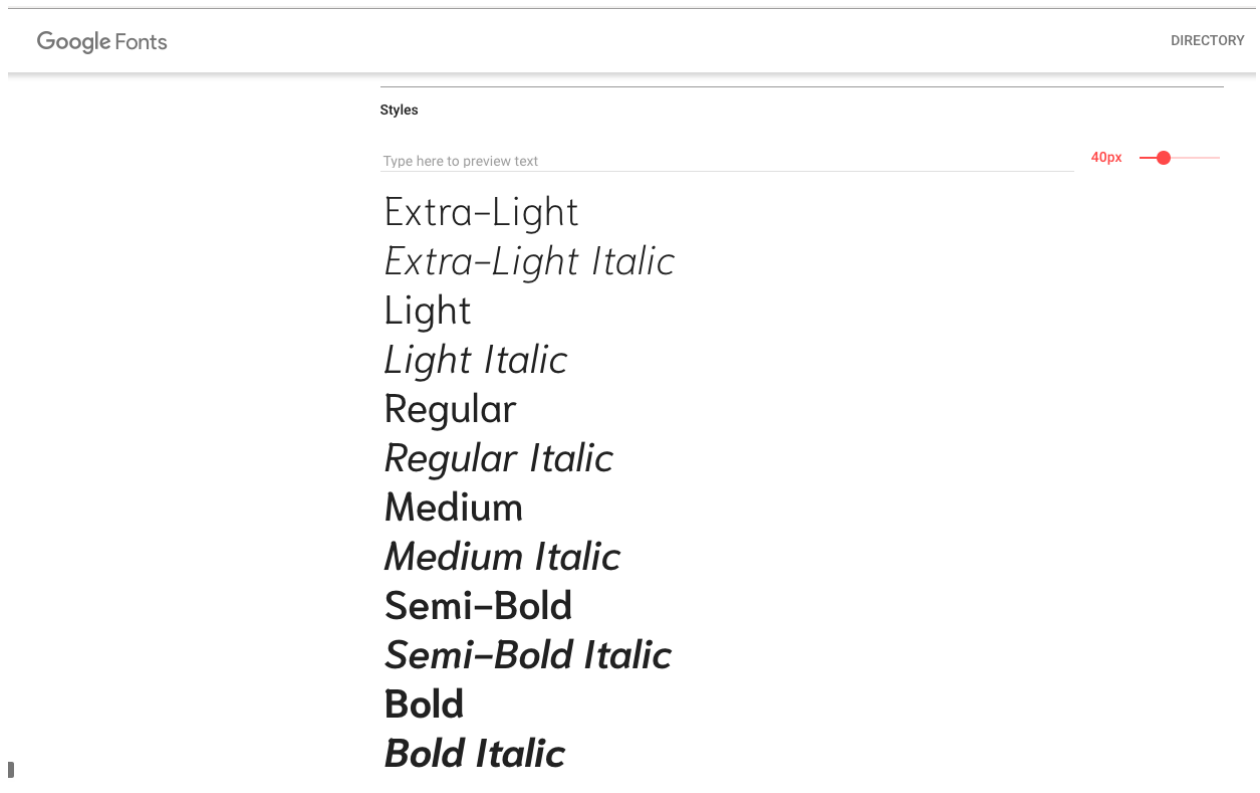
If everything is correct, the Google font will be rendered in your document. It should look something like this in your browser:



Understanding Font Variants

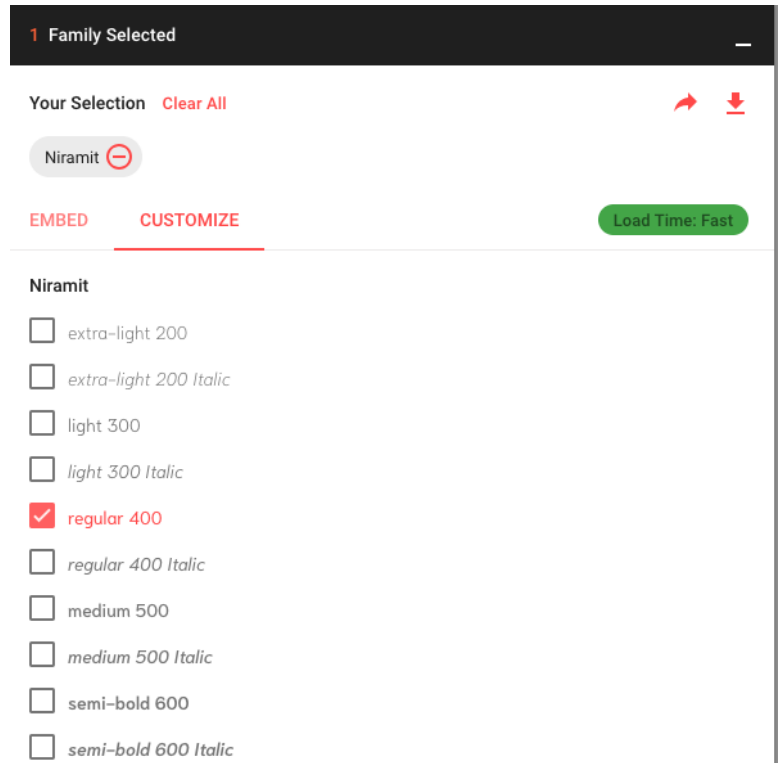
Most typefaces are comprised of several versions of the type design. These might include a thin version of the typeface, a bold version, a book version, and a very bold version. Not all typefaces include fonts for all of these varieties.

Where there are variants available, they will be listed on the detail page for your selected font.



The screenshot above is for the typeface Niramit-- which has many variants. To ensure we're efficient, we'd only want our document to download the individual variants that we're going to use.

The selected font dialog box will allow us to choose which variants we want to include. Inside the dialog box choose the “customize” tab for all your options to be displayed.



Changes you make here will be reflected in the Embed tab. For example, after making a few selections, the embed now looks like this:

```
<link href="https://fonts.googleapis.com/css?
family=Niramit:200,400,700" rel="stylesheet">
```

The numbers (200,400,700) following the name of the font are the weights that will be loaded for the font.

To use these different weights, I'll add a font-weight rule to my CSS as demonstrated in the following code.

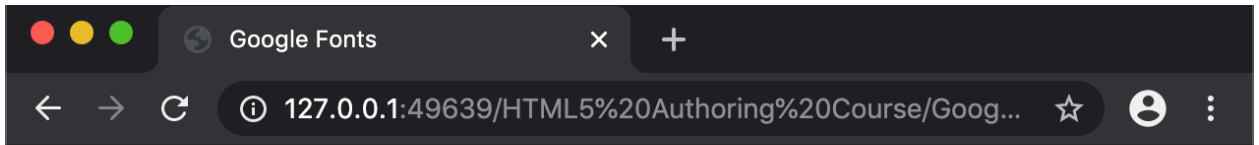
```

<!DOCTYPE html>
<html>
  <head>
    <title>Google Fonts</title>
    <link href="https://fonts.googleapis.com/css?family=Niramit:200,400,700" rel="stylesheet">
    <style>
      #container {
        font-family: 'Niramit', sans-serif;
      }

      h1 {
        font-weight: 200;
      }
      p {
        font-weight: 700;
      }
    </style>
  </head>
  <body>
    <div id="container">
      <h1>Westport, Connecticut</h1>
      <p>Westport has a vibrant downtown and a healthy
commercial
environment the generates the feeling of a New England
town
with the convenience of modern life. Residents enjoy the
quality of live due to the commitment to conserve the
natural resources, preserve traditions and support
community events. The town provides a wide range of
leisure
activities and recreational venues. </p>
    </div> <!-- container -->
  </body>
</html>

```

Here is the result with the weights correctly applied in the browser:



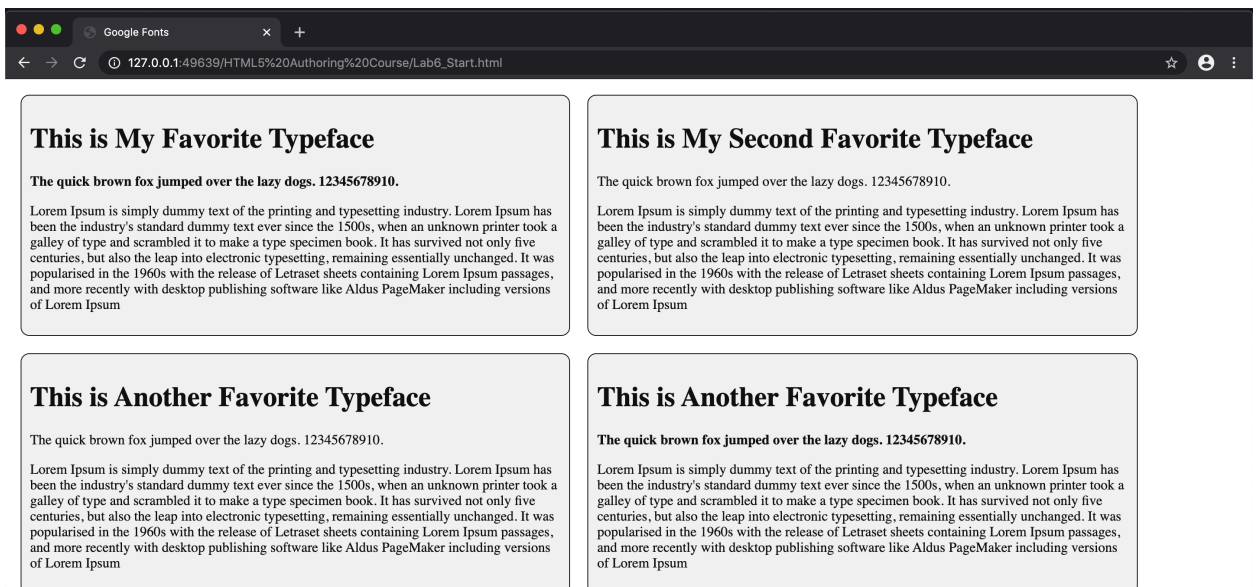
Westport, Connecticut

Westport has a vibrant downtown and a healthy commercial environment the generates the feeling of a New England town with the convenience of modern life. Residents enjoy the quality of live due to the commitment to conserve the natural resources, preserve traditions and support community events. The town provides a wide range of leisure activities and recreational venues.

Submit This: The Font Feature

For this lab, you'll have to download the starter file from https://www.dropbox.com/s/e4try94u890k9ao/lab_6.html?dl=0. (If you are loading into your browser you can view the source code and copy it into your text editor.)

When you display the starter file in the browser it should appear like this in the browser:



For each of the `<div>` elements, choose a different typeface from Google Fonts. Apply a different typeface to each element. Also, apply a different font variant to the `<h1>` and `<p>` elements in each `<div>`.

Remember, when submitting the work, please use the following naming convention for your file: `HTMLAUTHORING_LastName_SectionNumber.html`. So, if your last name is Smith and your submitting section 8, your file name should be `HTMLAUTHORING_Smith_8.html`.

For this course visit <https://www.dropbox.com/request/RhW9kBDXtisq2Fsvg3hY> to submit your assignments.