

HW1: Music Player UI

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Due Oct 18 by 11:59pm **Points** 20 **Submitting** a website url or a file upload

In the following two homework assignments, you will be asked to build a mobile music player application using HTML, CSS, and Javascript. We hope that these assignments will give you some hands on experience with these core web technologies so that you can understand website structure and implement a web application of your own.






For the first homework assignment you will implement a two-screen music player interface showing an album and song select screen using HTML and CSS. The second homework assignment will ask you to implement the music player screens using Javascript.

Useful References

In this assignment, you will:

- Write HTML pages that work in modern web browsers
- Use CSS to style and layout the HTML pages
- Reference external elements within an HTML page, such as images and other pages
- Make sure you follow accessibility guidelines

Here are useful video tutorials on HTML/CSS/Javascript picked by the course staff:

- [HTML Dog](http://htmldog.com/)  [\(http://htmldog.com/\)](http://htmldog.com/) (a fairly good guide for both HTML and CSS)
- [Introduction to styling with CSS](http://crowdy.juhokim.com/play/25/)  [\(http://crowdy.juhokim.com/play/25/\)](http://crowdy.juhokim.com/play/25/)
- [CSS Absolute and Relative Positioning Tutorial](http://crowdy.juhokim.com/play/23/)  [\(http://crowdy.juhokim.com/play/23/\)](http://crowdy.juhokim.com/play/23/)
- [Making Divs Side by Side using CSS](http://crowdy.juhokim.com/play/24/)  [\(http://crowdy.juhokim.com/play/24/\)](http://crowdy.juhokim.com/play/24/)
- [w3schools](https://www.w3schools.com/)  [\(https://www.w3schools.com/\)](https://www.w3schools.com/) Tutorials

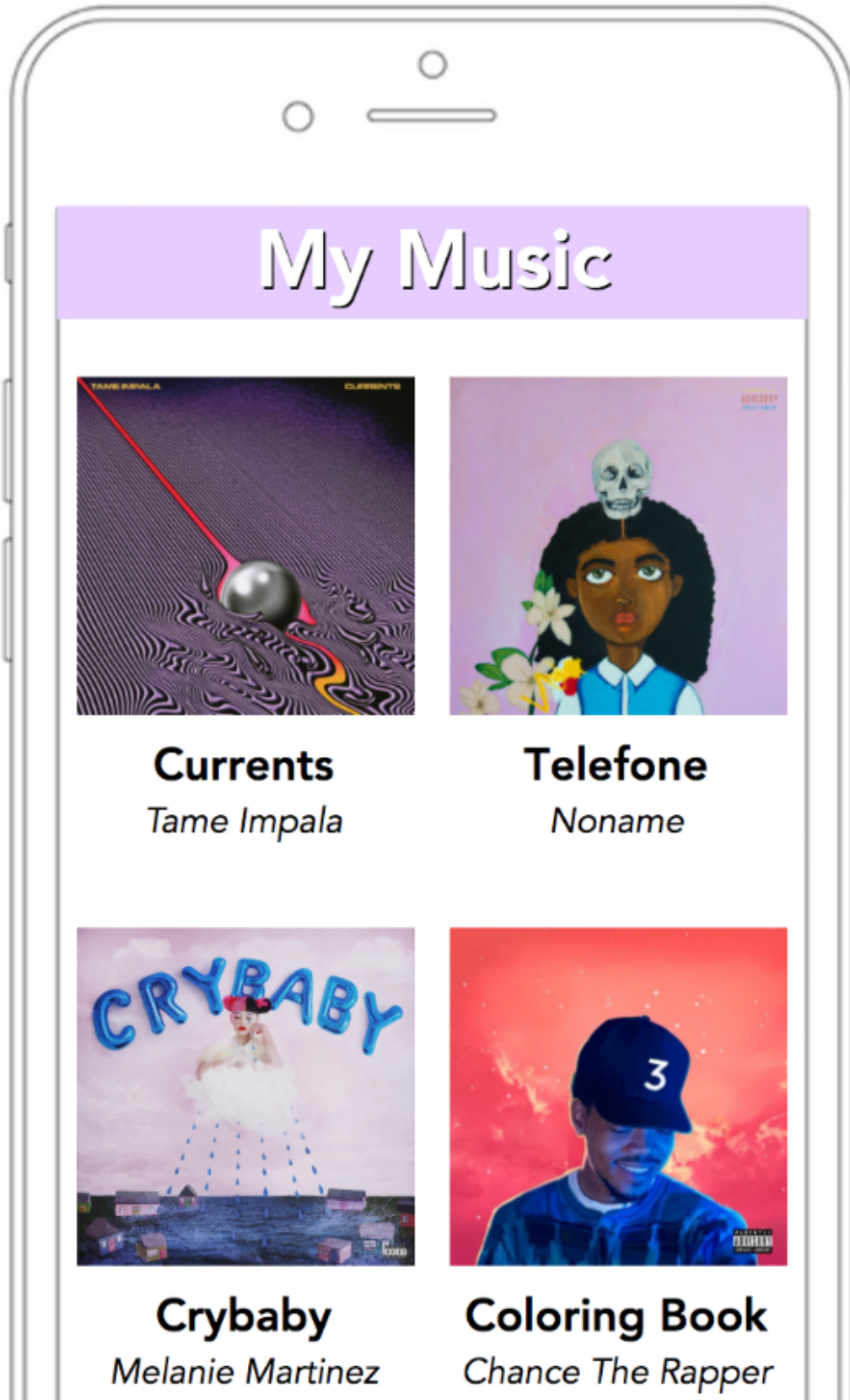
Getting Started

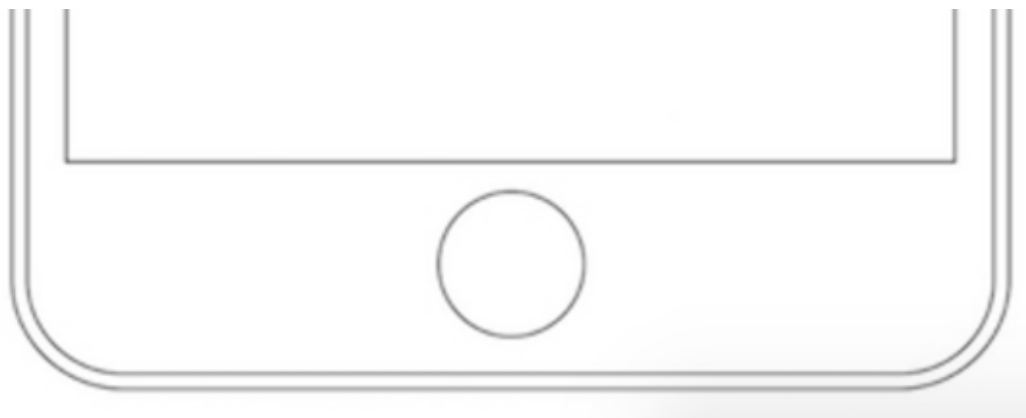
Download [ipod-starter.zip](#), a zip file containing the files that you will build off of for the next two assignments. In it, you will find:

- albums.html - a skeleton file for the album select page
- songs.html - an empty file that you'll start writing from scratch!
- ipod.css - a stylesheet file that will be used universally for all HTML pages
- images - a folder containing the graphics files used

Download the files and open up them up in your favorite text editor (e.g., Sublime Text or Atom). Also open up albums.html in the Google Chrome web browser. This is the browser that we will be using to grade your assignments, so we recommend using it as you complete your assignment.

Part 1 - Album Select Layout - 45%

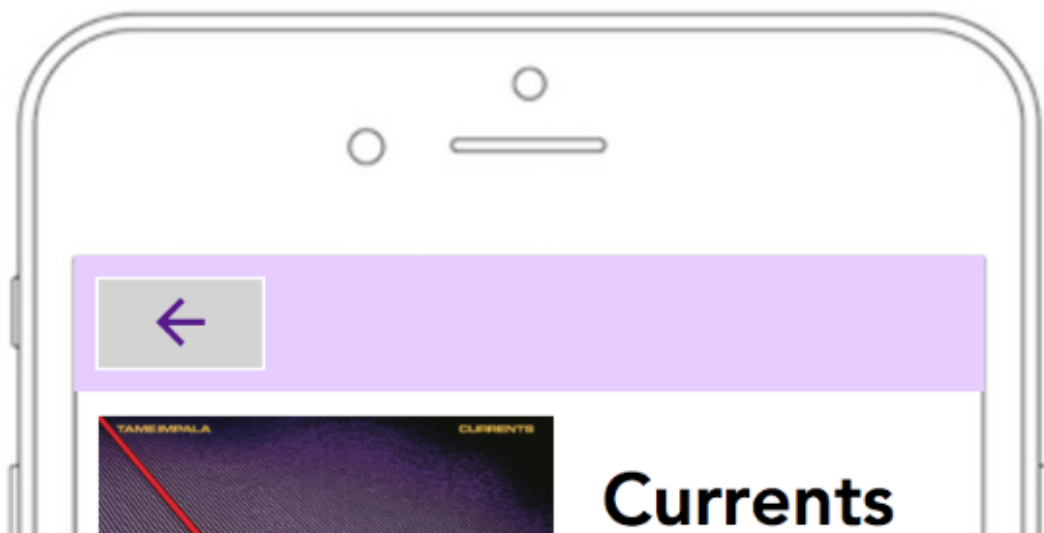


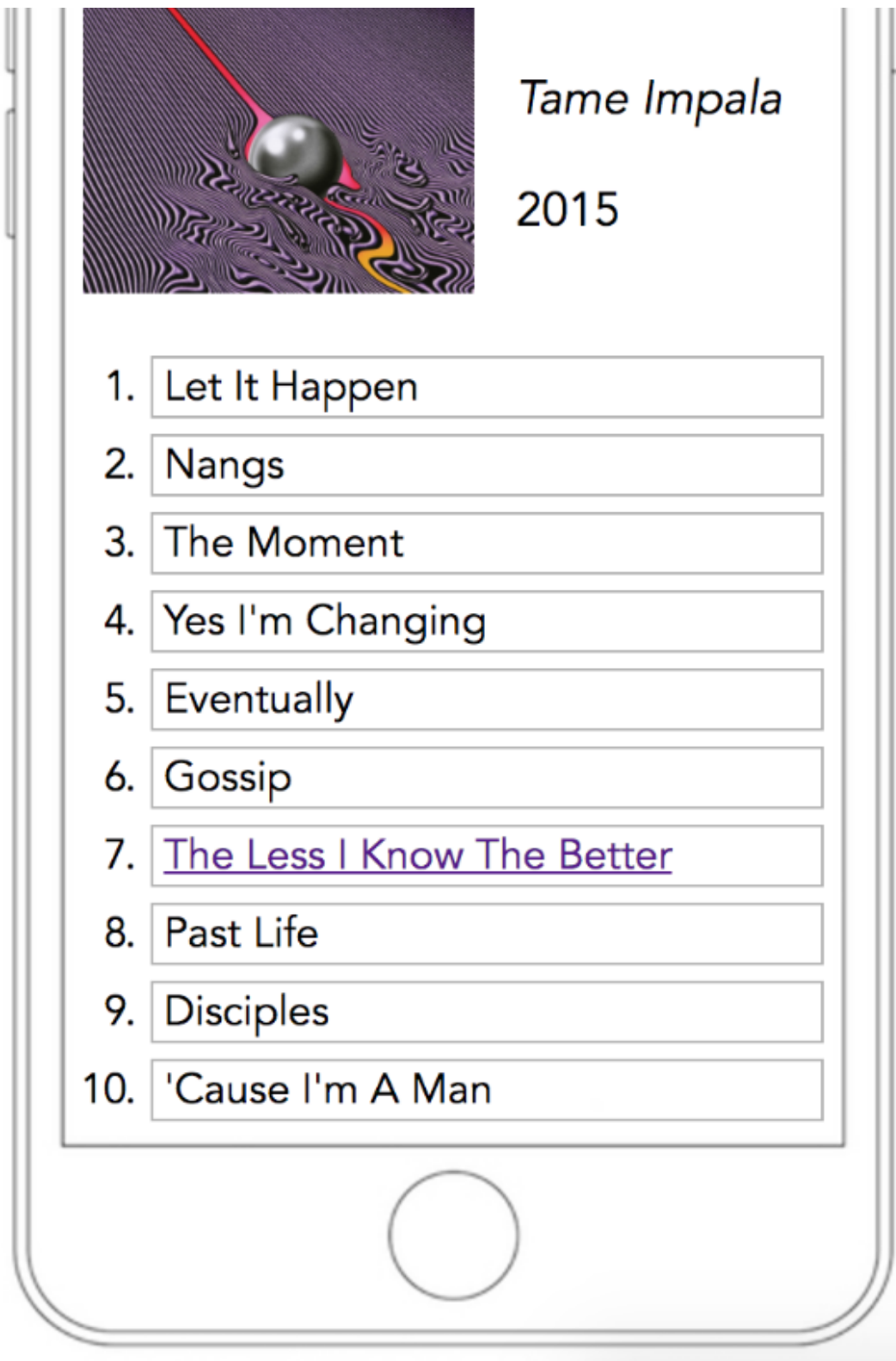


Your goal for the first part of this assignment is to implement the album select screen of this music player as seen above. This first screen should contain the album covers of four different albums as well as the album name and artist name. We have provided you with four sample albums, however feel free to choose any of your favorite four albums that you would like!

- The background iPhone image has a width of 363px and a height of 762px and the screen part of the image has a width of 300px and a height of 530px. These numbers will be useful for calculating layout.
- The starter code has provided you with a `<div>` with the id "screen" that is the actual size of the screen. Any additional elements added should be added within this `<div>`.
- Start out by creating a head bar that says "My Music" with the same width as the screen and a height of 45px. Be sure that the text is centered within the head bar and has a text-shadow that matches the sample.
 - The background color of the head bar used for the sample is #e6ccff, but feel free to use a different color that complements the album covers you chose.
- Have one album cover (the one in the upper-lefthand corner) link to the next page called **songs.html** (an HTML page that you will create in the next part). You only need to create one songs.html page for one album.

Part 2 - Song Select Layout - 45%





Your goal for the second part of this assignment is to implement the song select screen of this music player as seen above. This second screen should contain the track listing of 10 songs found on a mock-up album. The song titles are found in the image above, but you can use whatever you want.

- Open up `songs.html` (a blank html document) and follow the same basic format as `albums.html` (with the screen and head bar). The back button on this screen should be functional and lead back to `albums.html`.

- In the main area of the page place the album cover on the top, with the album name, artist name, and album year to the right of the cover.
- Use an [ordered list](https://www.w3schools.com/html/html_lists.asp) to display the first 10 tracks on the given album. Create a border around each list element.
- The back arrow at the top should link back to albums.html. You can use any approach you want to implement the back arrow. Here are three suggestions:
 - Use [unicode characters](https://www.w3schools.com/charsets/ref_utf_arrows.asp).
 - Use an [icon font](https://material.io/icons/).
 - Implement the back arrow as an [image link](https://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_image) by wrapping the image within an `a` tag.

Readability & Neatness - 10%

You will be graded on the readability and neatness of your code. Things that you could be marked down for include:

- Redundant classes
- The use of absolute positioning in your styling
- Non-descriptive class names
- Writing css in your html file (you should have separate, linked css and html files)

We will also look at the overall readability of your code including good commenting, consistent indentation, and minimizing redundancy.

Note: The provided css uses "font-family: Avenir". If you have a Windows computer you likely don't have this font automatically downloaded, so you should download it or use a different font to avoid your assignment looking different when it is being graded.

HW1 rubric

Criteria	Ratings	Pts
HTML on 1st screen		4.0 pts
CSS on 1st screen		4.0 pts
HTML on 2nd screen		4.0 pts
CSS on 2nd screen		4.0 pts
No styling in .html file		1.4 pts
No issues with links		1.4 pts
Code is neat		1.2 pts
		Total Points: 20.0