# MATLAB Marina Mobile Redesign

Team

Erik Leon

Peter Drinovac

Tyler Rutland

Jeremy Brown

## Introduction

The MATLAB Marina (MM) website serves as an online resource for students taking Engineering courses that require the use of the MATLAB programming language and associated software. It covers basic to advanced programming concepts for engineering students, offering video tutorials, example programs, and exercises. The MM Mobile Redesign Project aims to improve the experience of students accessing MM on handheld mobile devices (smartphones and tablets).

## Needs and Requirements

The current MM website is difficult to navigate on smartphones and tablets, as it was designed without these different media in mind. The use of such handheld mobile devices to access online content has eclipsed the use of large-screened devices like laptops and desktop computers, prompting the need for online content to be easily accessible from handheld devices. The MM website is no exception. Students accessing the current MM website on mobile devices are met with difficulties navigating the menus and reading the text, among other issues.

## Product/Solution Overview

The MM website will be redesigned to make it responsive to varying screen sizes, that is, the layout of the content will adjust based on the screen size of the accessing medium. The new website will offer one unified experience between large- and small-screen devices, granting students convenient access to the content.

### Features

* New navigation - The new website will feature a simplified navigation menu, which can be toggled in and out of view on mobile devices where screen width is restricted.
* Scaling – The redesigned site will scale content to appear appropriately sized on smaller screens.
* Prioritizing content - The redesigned layout of each page will ensure that critical content remains at the fore when screen size is limited, while non-critical content will be hidden or pushed to the bottom of the page. Non-critical content would include the search function (would be integrated into the navigation), the relevant links sidebar, and the updates/blog sidebar.

## Scope & Limitations

The content of the website will remain as is. The new site will be maintainable by current methods, and will not introduce an interface for managing content. Steps will be taken to ensure that future content will be easily integrated into the redesigned site.

## Accessibility

The website will be accessible from all modern mobile and desktop/laptop web browsers (Internet Explorer 9 or better, Safari 5.1 or better, and current versions of Google Chrome, Mozilla Firefox, and Opera).