**Installation**

Ready

This guide will take you through the simple steps of consuming the Muthuraja Design System in your project.

**Getting started**

First, make sure you have [Node.js](https://nodejs.org/en/) installed, and that node is available via terminal/cmd (command prompt).

1. Add an .npmrc file to your project (or update your existing one) with the following line:registry=https://registry.npmjs.org . Install latest version of Muthuraja Design System via NPM: npm install Muthuraja-design-system --save

**NPM tips**

Here are some tips for working with npm. For more in depth information please go to [NPM documentation](https://docs.npmjs.com/cli/).

**Install and add as *dependency***

npm install Muthuraja-design-system --save

**Install and add as *devdependency***

npm install Muthuraja-design-system --save-dev

**What version am I currently using?**

npm list Muthuraja-design-system prints the version number of Muthuraja Design System, currently installed in your project:

npm list Muthuraja-design-system

test@0.0.1 C:\path\to\my\app

`-- Muthuraja-design-system@0.2.5

**How do I install a specifc version?**

npm install Muthuraja-design-system@0.2.5 --save installs the exact version 0.2.5 of Muthuraja Design System in your project:

**How do I update to a newer version?**

npm outdated Muthuraja-design-system prints a list of current, wanted and latest version available

If your package json refers to the "Muthuraja-design-system": "^0.2.5", this would look something like this:

npm outdated Muthuraja-design-system

Package Current Wanted Latest Location

Muthuraja-design-system 0.2.5 0.2.6 0.3.0 test

* *Current* shows you the installed version. The same as the npm list command above.
* *Wanted* shows that there is a newer version available in the registry that fit your version definition. The ^ says that you should be able to install version from 0.2.5 to 0.2.x (patch). But will never install 0.3.0 (minor) or 1.0.0 (major).
* *Latest* shows that there is a minor version 0.3.0 available

To get the latest version matching your range, use npm update Muthuraja-design-system. In this case, it will install version 0.2.6.

If you like to update to a newer version, e.g. 0.3.0, change your applications package.json to:

"Muthuraja-design-syste": "^0.3.0"

Save the file and run npm update Muthuraja-design-system from your terminal. After install, check the version installed using npm list Muthuraja-design-system.

npm list Muthuraja-design-system

test@0.0.1 C:\path\to\my\app

`-- Muthuraja-design-system@0.3.0

**Using CSS**

The easiest way of consuming Muthuraja Design System is to link directly to its precompiled CSS. Link to the stylesheets in this order in the <head> of the page:

<link media="all" rel="stylesheet" href="/path/to/assets/styles/css/mrx-fonts.css">

<link media="all" rel="stylesheet" href="/path/to/assets/styles/css/mrx-styles.css">

*<!-- Custom app stylesheets ->*

If your build process automatically consumes the Muthuraja Design System relative path to mrx-styles.css, the path would normally be:

* node\_modules/Muthuraja-design-system/www/assets/styles/css/mrx-fonts.css
* node\_modules/Muthuraja-design-system/www/assets/styles/css/mrx-styles.css

For faster loading of webfonts, please take a look at [typography](http://localhost:3000/docs/visual-style/typography) for a description on how to preload font-files.

**Using Scss**

Another way of consuming styles, is to consume the source files for styling directly into you own css bundle. This way you will be able to use available tools like scss variables, functions and mixins.

When including the scss-files from the design system into you own bundle, the order of you @import statements are important.

// Import Vendor libraries

// ==========================================================================

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/00-vendor/sass-mq/mq';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/00-vendor/susy/sass/susy';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/00-vendor/susy/sass/plugins/svg-grid';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/00-vendor/quantity-queries/stylesheets/quantity-queries';

// App Config - this is where most of your magic happen

// ==========================================================================

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_colors';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_radius';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_duration';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_mq';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_susy';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_rhythm';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_fonts';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_spacing';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_type-scale';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_type-weight';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_icon-scale';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/01-config/conf\_debug';

// Import Tools (Functions and Mixins)

// ==========================================================================

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_map-fetch';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_px-to-em';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_px-to-rem';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_rem-calc';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_shade-color';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_shadow';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_str-replace';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_strip-units';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/fun\_tint-color';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_absolute-center';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_base-margin';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_base-padding';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_box';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_center';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_center-box';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_cf';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_cover';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_family';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_fixed';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_font-face';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_font-smoothing';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_grid';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_hidden';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_highlighter';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_hyphenate';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_icon-scale';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_invisible';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_objectfit';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_overflow-margin-fix';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_placeholder';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_range';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_ratio';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_reset-list';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_shadow';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_spacing';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_tables';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_text-align';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_text-underline';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_text-underline-border';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_text-underline-crop';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_triangle';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_truncate';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_type-family';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_type-scale';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_type-weight';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/02-tools/mix\_vishidden';

// Import Base (Reset, normalizing, global defaults)

// ==========================================================================

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/03-base/colors';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/03-base/normalize';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/03-base/typography';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/03-base/animations';

// Import Layout

// ==========================================================================

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/04-layout/layout-grid';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/04-layout/layout-flex';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/04-layout/layout-container';

@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/04-layout/layout-regions';

// Import Components

// ==========================================================================

@import 'node\_modules/Muthuraja-design-system/src/components/01-badge/badge';

@import 'node\_modules/Muthuraja-design-system/src/components/01-breadcrumb/breadcrumb';

@import 'node\_modules/Muthuraja-design-system/src/components/01-button/button';

@import 'node\_modules/Muthuraja-design-system/src/components/01-button-group/button-group';

@import 'node\_modules/Muthuraja-design-system/src/components/01-button-toolbar/button-toolbar';

@import 'node\_modules/Muthuraja-design-system/src/components/01-card/card';

@import 'node\_modules/Muthuraja-design-system/src/components/01-dropdown/dropdown';

@import 'node\_modules/Muthuraja-design-system/src/components/01-footer/footer';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/\_field/field';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/fieldset/fieldset';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/form';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/input-group/input-group';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/label/label';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/legend/legend';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/switch/switch';

@import 'node\_modules/Muthuraja-design-system/src/components/01-form/switch-group/switch-group';

@import 'node\_modules/Muthuraja-design-system/src/components/01-hamburger/hamburger';

@import 'node\_modules/Muthuraja-design-system/src/components/01-header/header';

@import 'node\_modules/Muthuraja-design-system/src/components/01-hero/hero';

@import 'node\_modules/Muthuraja-design-system/src/components/01-icon/icon';

@import 'node\_modules/Muthuraja-design-system/src/components/01-listgroup/listgroup';

@import 'node\_modules/Muthuraja-design-system/src/components/01-modal/modal';

@import 'node\_modules/Muthuraja-design-system/src/components/01-nav/nav';

@import 'node\_modules/Muthuraja-design-system/src/components/01-notification/notification';

@import 'node\_modules/Muthuraja-design-system/src/components/01-pagination/pagination';

@import 'node\_modules/Muthuraja-design-system/src/components/01-process/process';

@import 'node\_modules/Muthuraja-design-system/src/components/01-table/table';

@import 'node\_modules/Muthuraja-design-system/src/components/01-topictile/topictile';

@import 'node\_modules/Muthuraja-design-system/src/components/01-tree/tree';

// Import Themes

// ==========================================================================

@import 'themes';

// Import Utility-classes - Trumps earlier css (specificity)

// ==========================================================================

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/align';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/center';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/ellipsis';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/hidden';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/hyphenate';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/objectfit';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/ratio';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/release';

@import '@import 'node\_modules/Muthuraja-design-system/src/assets/styles/sass/07-utilities/spacing';

**Overriding mrx-styles with SCSS**

By controlling which SCSS files you @import into your product, you can control when and how you override the styles Muthuraja Design System provides.

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**Contribute**

Want to contribute to the design system? Setting it up for local development is quite easy. Just follow the instructions below.

**Getting started**

First, make sure you have [Node.js](https://nodejs.org/en/) installed, and that node is available via terminal/cmd (command prompt).

1. Clone or download this repository to your machine.
2. Add a .npmrc file to the **root** of the repository. This file should contain details about authentication towards the jFrog Artifactory (used for publishing).
3. Open a terminal/cmd, and navigate to the **root** of this project.
4. Run npm install. NPM will then download and install all dependencies into node\_modules. This may take a while, so grab a coffee ☺
5. After installing, type gulp dev to start the dev-server and open [http://localhost:3000](http://localhost:3000/) in your browser.

**Gulp tasks overview**

The most important tasks are:

* gulp compile compiles source files.
* gulp start compiles source files and starts the local server on port 3000.
* gulp build compiles source files and builds a static version of the app to the folder /www.
* gulp dev compiles source files, starts the local server on port 3000, and watches for changes in the sourcecode. Changes are reloaded live in the browser.
* gulp publish bumps version number and publishes package to registry defined by "publishConfig": in package.json.

For other available tasks, please have a look at the gulpfile.js.

**Fractal config**

In fractal.js, you’ll find the configuration for the fractal instance. This is used by gulp when it runs fractal-based tasks.

**Git Flow**

We use Git Flow as our branching strategy. This gives us exellent command line help and output. In addition we can recommend [Sourcetree](https://www.sourcetreeapp.com/), an exellent gui client for git, with full Git Flow support.

Git Flow gives you great control over branches for master, develop, features, release, hotfixes and more. Please read the [git flow cheatcheet](https://danielkummer.github.io/git-flow-cheatsheet/) for more details.