

App: Colours: Phase #1

Date: Feb 27th, 2023

Domain: <https://colours.brickmmo.com>

GitHub: <https://github.com/codeadamca/brickmmo-colours>

Application Purpose:

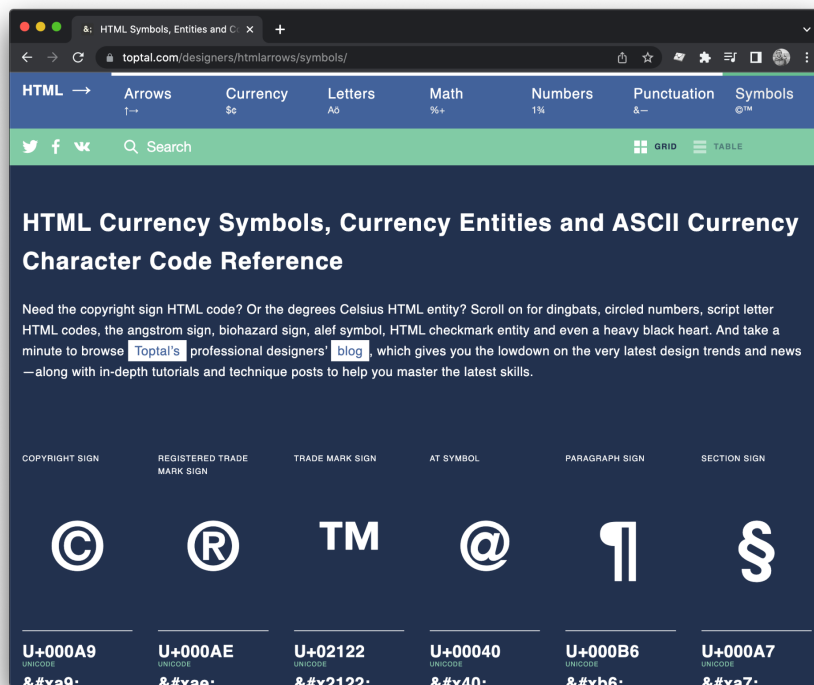
This application will provide a series of tools related to the official LEGO™ colour palette. This will include a small website for visitors to browse, search, and convert colours as well as an API for other BrickMMO applications to incorporate the LEGO™ colour palette.

Front-End:

Front end facing application will include the following features:

- Browse LEGO™ colour palette
- Search for LEGO™ colours using colour keywords
- Convert existing colours from text, CMYK, or RGB to the LEGO™ colour palette

Application will include similar UI and features to this HTML Symbols tool:



<https://www.toptal.com/designers/htmlarrows/symbols/>

Back-End:

Application will include a control panel to achieve the following:

- Login to control panel
- Add, edit, and delete LEGO™ colours
- Import LEGO™ colour palette from ReBrickable API:
<https://rebrickable.com/api/>

API:

Application API will include the following API calls:

Method	Endpoint	Description
GET	/api/colours	<p>A list of colours.</p> <p>Returns: A list of all LEGO™ colours. Each colour will include ID, name, RGB, CMYK, transparency, BrickLink ID, and BrickLink name.</p>
POST	/api/convert	<p>Converts a specified colour to a LEGO™ colour palette colour.</p> <p>Parameters: colour (required): RGB, CMYK, or text colour</p> <p>Returns: A single colour including ID, name, RGB, CMYK, transparency, BrickLink ID, BrickLink name, a match distance.</p>