

MIC Documentation

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1 MIC MVP Release v2.0.0-beta

1.1 Introduction

This is a MVP release of a brand new version of **Map in Color (MIC) v2.0.0-beta**, a tool for creating **choropleth maps** to visualize data—whether for scientific purposes or simply to see the world from a new perspective through data.

With the new version, the application includes more complexity and a sharing platform where data can be shared between users. Instead of manually selecting and defining states from select inputs (as seen in v1), you prepare a CSV file locally with all the data for the map, ensuring simplicity.

This MVP release features:

- A **set of three maps** (World Map, United States, and Europe) – with more to be added over time.
- The ability to **instantly generate data ranges** with ease (either suggested or manually defined).
- A **sharing platform** with tags for potential future data collection across diverse subjects, browsable via an *explore* page.
- **Public or private** map settings for each user's preference.
- User profiles that allow **personal info**, **stars**, and **comments** on maps.

2 Quick Start (For Users)

1. Sign Up

Go to mapincolor.com and fill out the sign-up form. After a successful registration, you will be taken to your **Dashboard**.

2. Create Your First Map

- Use the sidebar or header to click "**Create New Map.**"
- Select which map template you want (World, USA, or Europe) in the pop-up.

- Click "**Create**". You will be taken to the **Data Integration** page.

3. Data Integration

- Prepare your CSV file (see details below) and upload it.
- Define data ranges (either by manual input or by generating suggested ranges).
- Adjust colors and theme settings (ocean color, unassigned states, etc.).
- Fill out **map details** (title, description, tags, references).

4. Save & Share

- Choose **public** or **private** for your map.
- Click "**Save Map**".
- You can now view or edit your map from your collection, explore other maps, star, and comment.

3 How to Create and Edit Maps

When you navigate to the **Data Integration** page, have your CSV file ready. It must contain **exactly two columns**:

1. Country/State Name
2. Value

No values can be empty.

Example CSV

```
Country/State Name,Value
State1,Value1
State2,Value2
...
```

If your CSV is successfully uploaded, you may see summary statistics about the file.

3.1 Error Handling


If a state name isn't recognized or the file is invalid, you'll see an **error log** showing the line number and the issue:

Fix any errors and re-upload until you see a success message:

| | |
|-----------------------|-------------|
| File Name | hdi.csv |
| Lowest Value | 0.38 |
| State (Lowest) | Somalia |
| Highest Value | 0.967 |
| State (Highest) | Switzerland |
| Average Value | 0.72 |
| Median Value | 0.74 |
| Standard Deviation | 0.15 |
| Values Count | 193 |
| Total Countries | 245 |
| Data Completeness (%) | 78.78 |

Mynd 1: Statistics Example

Upload Your CSV



hdi.csv

File is not valid

There are 3 errors:

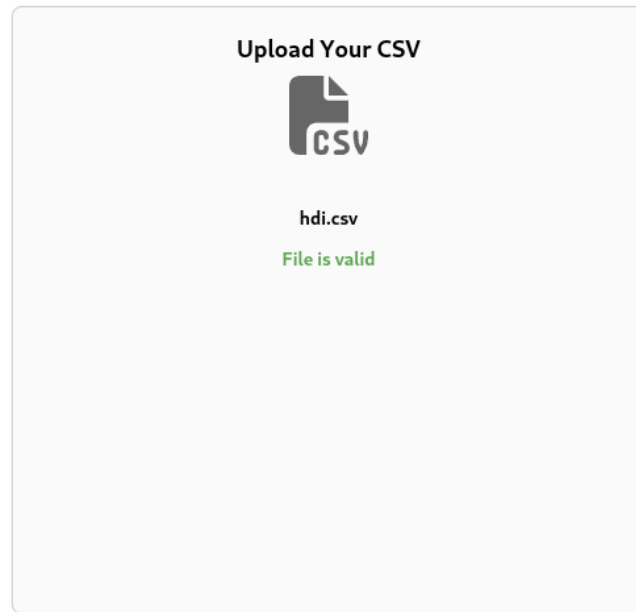
Line 3: Country/State "Riceland" is invalid.

Line 15: Value "twenty one" is not a valid number.

Line 19: Country/State "East Korea" is invalid.

[Download Error Log](#)

Mynd 2: Error Log Example



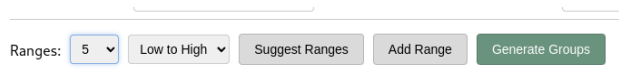
Mynd 3: Valid CSV Example

4 Defining Ranges

4.1 Suggested vs. Manual

- **Manual:** Type in your lower and upper bounds for each range.
- **Auto-Generate:** Specify how many ranges you want and click "**Suggest range**".

For example, you can press certain buttons to define or suggest ranges:



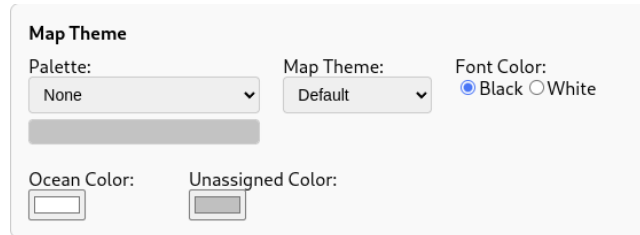
Mynd 4: Range Buttons Example

4.2 Name & Coloring

Name each range (e.g., "Low," "Medium," "High," etc.). Choose individual colors or use a provided **color palette**. Then click "**Generate Groups**" to update the map with the new ranges.

5 Theme & Final Settings

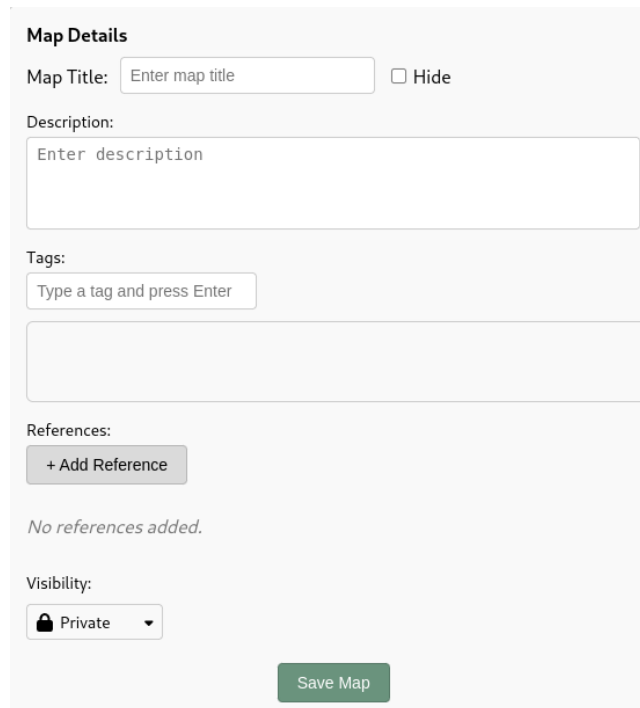
You can adjust map details: **ocean color**, **unassigned color**, etc. For example:



The 'Map Theme' settings panel includes a 'Palette' dropdown menu currently set to 'None', a 'Map Theme' dropdown menu set to 'Default', and a 'Font Color' section with radio buttons for 'Black' (selected) and 'White'. Below these are two color selection boxes: 'Ocean Color' (showing a light blue swatch) and 'Unassigned Color' (showing a grey swatch).

Mynd 5: Theme Settings Example

Then fill out **title**, **description**, **tags**, **references**, and decide if the map is private or public:



The 'Map Details' form contains several input fields: 'Map Title' with a placeholder 'Enter map title' and a 'Hide' checkbox; a 'Description' text area with a placeholder 'Enter description'; a 'Tags' section with a placeholder 'Type a tag and press Enter' and a large empty text area below it; a 'References' section with a '+ Add Reference' button and the text 'No references added.'; and a 'Visibility' dropdown menu set to 'Private' with a lock icon. A green 'Save Map' button is located at the bottom right of the form.

Mynd 6: Map Details Example

Finally, press "**Save Map**". The map is now in your collection, and you can edit it anytime.

Once saved, you can **star** or **comment** on maps, explore other users' public maps, and further customize your own.