

I. Where do the color palettes come from?

Most color palettes are obtained from `Matplotlib` and `Scientific Colour Maps` by segmenting their color maps into 10 values.¹ We retain only palettes that comply with the following rules.

- **No repetition.** Some `Matplotlib` palettes are duplicated,² in which case we keep the first one in lexicographical order.
- **No reversed versions.** Unlike `Matplotlib`,³ `@prism` never includes reversed palettes as fixed data.

In addition to `Matplotlib` and `Scientific Colour Maps` palettes, `@prism` includes some original creations.

We list below the palettes ignored due to duplication.⁴ The symbol $\boxed{=}$ indicates equality, $\boxed{\rightleftharpoons}$ indicates reversal, and the rightmost palette is the one retained in `@prism`.

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|---------------------------|-----------------------|----------------------|---------------------|
| • <code>Matplotlib</code> | <code>GistGray</code> | \rightleftharpoons | <code>Binary</code> |
| | <code>GistGrey</code> | \rightleftharpoons | <code>Binary</code> |
| | <code>GistYarg</code> | $=$ | <code>Binary</code> |
| | <code>GistYerg</code> | $=$ | <code>Binary</code> |
| | <code>Gray</code> | \rightleftharpoons | <code>Binary</code> |
| | <code>Grey</code> | \rightleftharpoons | <code>Binary</code> |
| | <code>Greys</code> | $=$ | <code>Grays</code> |

Note.

Adding new palettes to `@prism` is straightforward (no coding skills required). See section ?? to get started.

¹`Asymptote` is also used, but currently offers nothing beyond `Matplotlib`, despite different implementations.

²Likely for historical reasons.

³Most `Matplotlib` color maps have a reversed version named with the `_r` suffix, possibly for performance reasons.

⁴Recall that `Matplotlib` reversed color maps (with the `_r` suffix) are systematically excluded and therefore not shown here.