The `contributor-credits` package

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The `contributor-credits` package produces contributor statements and heatmaps using the Contributor Role Taxonomy (CRediT). It supports named roles and numeric contribution values. The taxonomy is described at `https://credit.niso.org/`.

1 Installation

Copy `contributor-credits.sty` into the directory containing your document. Load it in the preamble:

```
\usepackage{contributor-credits}
```

The package requires `ifthen`, `kvoptions`, `pgfkeys`, `tikz`, `xstring`, and `etoolbox`. These packages are available in TeX Live and MiKTeX.

2 Named roles

Add each contributor with `\credit{name}{roles}`. Separate roles with commas. Their order is arbitrary, but their spelling and capitalization must match the taxonomy in Section 5. Write an ampersand as `\&`.

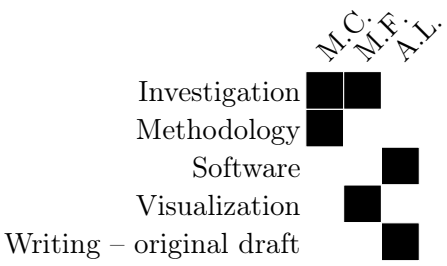
```
\credit{Marie Curie}{Investigation, Methodology}
\credit{Michael Faraday}{Investigation, Visualization}
\credit{Ada Lovelace}{Software, Writing -- original draft}

\insertcreditsstatement
```

Investigation: Marie Curie, Michael Faraday; **Methodology:** Marie Curie; **Software:** Ada Lovelace; **Visualization:** Michael Faraday; **Writing – original draft:** Ada Lovelace;

Use `\insertcredits` to show the same contributions as a heatmap. The command inserts a `tikzpicture`; it does not create a float. Short contributor labels can make the heatmap easier to fit on a page:

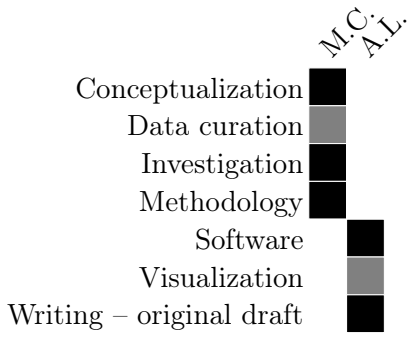
```
\resetcredits
\credit{M.C.}{Investigation, Methodology}
\credit{M.F.}{Investigation, Visualization}
\credit{A.L.}{Software, Writing -- original draft}
\insertcredits
```



3 Numeric contributions

Alternatively, give each contributor 14 numbers between 0 and 1. The positions follow the taxonomy order in Section 5. Zero means no contribution; larger values produce darker cells. Use the granular commands with numeric lists:

```
\resetcredits
\credit{M.C.}{1,0.5,0,0,1,1,0,0,0,0,0,0,0,0}
\credit{A.L.}{0,0,0,0,0,0,0,0,1,0,0,0.5,1,0}
\insertcreditsgranular
\insertcreditsgranularstatement
```



Conceptualization: M.C.; **Data curation:** M.C.; **Investigation:** M.C.; **Methodology:** M.C.; **Software:** A.L.; **Visualization:** A.L.; **Writing – original draft:** A.L.;

The numeric text statement treats every nonzero value as a contribution; it does not print the magnitude. Keep named roles and numeric lists in separate blocks, using `\resetcredits` between them.

4 Options and commands

Pass options when loading the package, for example:

```
\usepackage[role=blue,grid=gray,skipempty,horizontal]{contributor-credits}
```

`role`	Cell colour for contributions; default: black.
`grid`	Cell border colour; default: white.
`horizontal`	Put roles in columns and contributors in rows.
`skipempty`	Omit roles with no contributions. For named text grouped by author, omit contributors with no recognized roles.
`byauthor`	Group named text statements by author instead of role.
`separator`	Separate text entries with this value; default: a semicolon followed by a space.

Boolean options are false unless specified. This manual loads `skipempty`, so its heatmaps and statements show only used roles. Define custom colours with `\definecolor` before loading the package. For example, `separator={\newline}` puts each text entry on a new line.

`\credit{name}{roles or numbers}` Add a contributor. Unknown named roles and out-of-range numbers produce package warnings.

`\insertcredits` Draw a heatmap from named roles.

`\insertcreditsstatement` Print a text statement from named roles.

`\insertcreditsgranular` Draw a heatmap from numeric contributions.

`\insertcreditsgranularstatement` Print a text statement from numeric contributions, by role.

`\resetcredits` Remove all stored contributors before starting another statement.

Names can contain escaped LaTeX characters such as `\_` and `\$`. The package retains contributors until `\resetcredits` is called; printing a statement does not clear them.

5 Taxonomy order

Named roles use the spelling below. Numeric lists use the same order.

1. Conceptualization
2. Data curation
3. Formal analysis
4. Funding acquisition
5. Investigation
6. Methodology
7. Project administration
8. Resources
9. Software
10. Supervision
11. Validation
12. Visualization
13. `Writing -- original draft`
14. `Writing -- review \& editing`

6 Examples and licence

The distribution includes these examples:

- `contributor-credits-example.tex` (named heatmap),
- `contributor-credits-example-granular.tex` (numeric heatmap and text),
- `contributor-credits-example-text.tex` (numeric text).

Compile them with `pdflatex` from the directory containing `contributor-credits.sty`.

The package and this documentation are distributed under the BSD 3-Clause licence; see `LICENSE.md`. Source and issue tracker: `https://github.com/Pseudomanifold/latex-credits`.