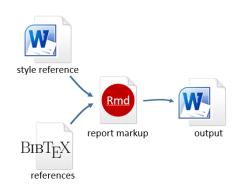
Document design — References and Word styles

497 / 597 Reproducible Research

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We will save references in bib format (from BiBTeX)

The basic steps for creating references and citations are

- create the bib file
- specify the bib file in the YAML header of the Rmd script
- add the citation to the report
- add a references heading

Create the bib file

- Open a new text file in RStudio File > New File > Text File
- ► Save As project_name.bib in the resources directory

Create reference entries in the bib file

```
reference type

your own unique label for the citation

@manual{ansi-isa-1995,
    title = {Process instrumentation terminology},
    edition = {ANSI/ISA-S51.1-1979, reaffirmed 1995},
    organization = {Instrument Society of America},
    address = {Research Triangle Park, NC},
    year = {1995},
    note = {ISBN 0-87664-390-4},
}

arguments depend reference type
```

See verbosus for BBTEX style examples (article, proceedings, book, etc.)

Forcing capitalization in the reference

When knit, references are sometimes not capitalized the way you expect

In the bib file, place braces {} around letters you want capitalized

For example

```
@book{gandrud2015,
  author = {Christopher Gandrud},
  title = {Reproducible {R}esearch with {R} and {RS}tudio},
  publisher = {CRC Press},
  year = {2015},
  address = {Boca Raton, FL},
  edition = {2},
}
```

Specify the bib file in the YAML header

- Add the bibliography argument to the YAML header
- Include the relative path

Add the citation to the report

- Citation syntax has the form [@ref_label]
- ref_label is the reference label you assigned in the bib file
- ▶ In the Rmd file, add the citation at the appropriate location, for example,

```
The test procedure follows the ANSI/ISA standard [@ansi-isa-1995].
```

When you knit the document, the citation is automatically formatted

The test procedure follows the ANSI/ISA standard (*Process Instrumentation Terminology* 1995).

Add a references heading

At the end of the Rmd script, add a references section heading

```
# References
```

All references cited in your report will be automatically formatted and listed at the end of the report

References

Process Instrumentation Terminology. 1995. ANSI/ISA-S51.1-1979, reaffirmed 1995. Research Triangle Park, NC: Instrument Society of America.

Citations and references are formatted automatically

- Use a CSL file to change the format to suit your audience
- Find one online and download it, for example,

```
chicago-author-date.csl
ieee.csl
```

- Download the CSL file and save it in your resources folder
- Edit the YAML header to specify the path to the CSL file

```
csl: "../resources/chicago-author-date.csl"
```