

**PONTIFICIA UNIVERSIDAD
CATÓLICA DEL PERÚ**

FACULTAD DE CIENCIAS SOCIALES



**El efecto de la pandemia del COVID-19 en las condiciones de vida de las
familias de trabajadores del sector informal en el Perú urbano**

Tesis para obtener el título profesional de Licenciado en Sociología presentado por:

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Asesor(es):

[Sulmont, David](#)

Lima, 2022



Para mi madre y mi padre.

Agradecimientos

Integer id risus vel lorem laoreet commodo lobortis quis purus. Cras cursus leo vel dui laoreet pulvinar. Nunc tincidunt metus et ante fermentum lacinia. Proin quam magna, tristique ut viverra at, dapibus eget elit. Quisque eu leo id nisi semper laoreet at ac nulla. Fusce volutpat, metus sed dictum mattis, nisl elit dapibus velit, non porttitor urna urna vel diam. Praesent tortor nulla, rutrum ac magna a, tempor sagittis enim. Praesent pharetra ipsum libero, eu malesuada libero blandit ut. Sed sed venenatis ligula, nec convallis turpis. Nulla iaculis felis eros, eget pharetra lorem cursus quis. Nunc iaculis lobortis magna at malesuada. Nullam elementum elit at urna congue aliquam.



Resumen

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam quis accumsan ante. Quisque lorem metus, varius id urna eget, lacinia dapibus sem. Etiam laoreet, quam ac mollis congue, arcu leo dictum neque, nec euismod sem enim luctus odio. Donec condimentum tortor sit amet mollis volutpat.

Palabras clave: capital social, desigualdad



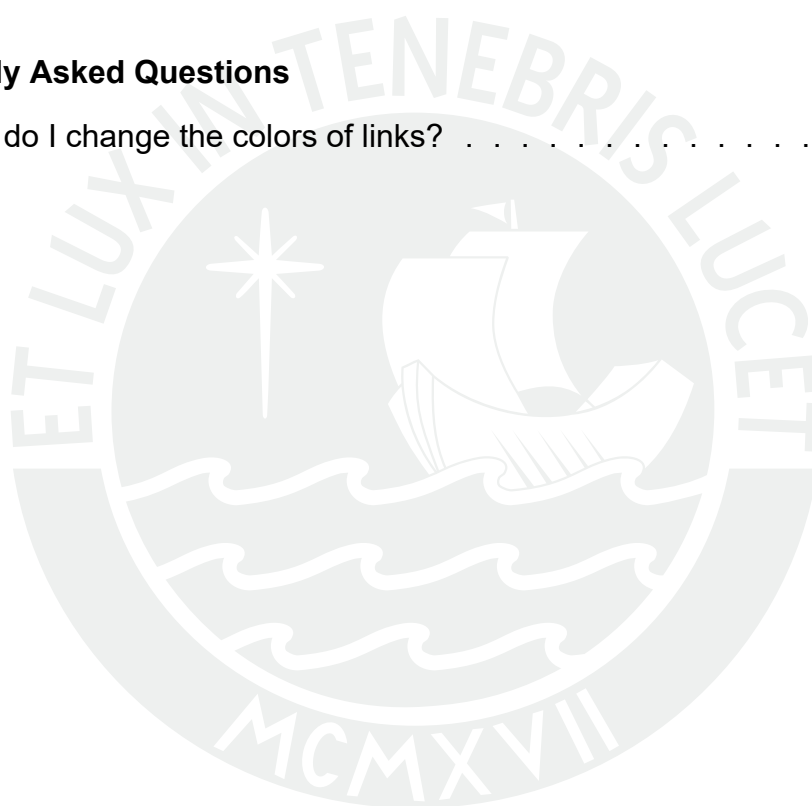
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Agradecimientos

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Lista de abreviaciones

LAH List **A**bbreviations **H**ere

WSF **W**hat (it) **S**tands **F**or



Lista de constantes

Speed of Light $c_0 = 2.997\,924\,58 \times 10^8 \text{ m s}^{-1}$ (exact)



Lista de símbolos

| | | |
|----------|-------------------|-----------------------|
| a | distance | m |
| P | power | W (J s ¹) |
| ω | angular frequency | rad |



Chapter 1 Title

1.1 Welcome and Thank You

Welcome to this \LaTeX Thesis Template, using the \LaTeX typesetting system and [Quarto](#) and based on the \LaTeX thesis template MastersDoctoralThesis version 2.0 downloaded from [LaTeXTemplates](#). The class was authored by Vel (vel@latextemplates.com) and Johannes Böttcher based on a style file by Steve R. Gunn from the University of Southampton (UK), department of Electronics and Computer Science.

1.2 A Short Math Guide for \LaTeX

If you are writing a technical or mathematical thesis, then you may want to read the document by the AMS (American Mathematical Society) called, «A Short Math Guide for \LaTeX ». It can be found online at [AMS](#) under the «Additional Documentation» section towards the bottom of the page.

1.2.1 Common \LaTeX Math Symbols

There are a multitude of mathematical symbols available for \LaTeX and it would take a great effort to learn the commands for them all. The most common ones you are likely to use are shown on [this page](#).

You can use this page as a reference or crib sheet, the symbols are rendered as large, high quality images so you can quickly find the \LaTeX command for the symbol you need.

1.3 About this Template

This \LaTeX Thesis Template is originally based and created around a \LaTeX style file created by Steve R. Gunn from the University of Southampton (UK), department of Electronics and Computer Science. You can find his original thesis style file at his site, here: <http://www.ecs.soton.ac.uk/~srg/softwaretools/document/templates/>.

Steve's `ecsthesis.cls` was then taken by Sunil Patel who modified it by creating a skeleton framework and folder structure to place the thesis files in. The resulting template can be found on Sunil's site here: <http://www.sunilpatel.co.uk/thesis-template>.

Sunil's template was made available through [LaTeXTemplates](#) where it was modified many times based on user requests and questions. Version 2.0 and onwards of this template represents a major modification to Sunil's template and is, in fact, hardly recognisable. The work to make version 2.0 possible was carried out by Vel (vel@latextemplates.com) and Johannes Böttcher.

1.4 What this Template Includes

1.4.1 Folders

- Appendices – this is the folder where you put the appendices. Each appendix should go into its own separate `qmd` file. An example and template are included in the directory.
- Chapters – this is the folder where you put the thesis chapters. Each chapter should go in its own separate `qmd` file.
- Figures – this folder contains static figures for the thesis, i.e. figures that are not generated by code in the chapters.

1.4.2 Files

- `example.bib` – this is file that contains all the bibliographic information and references that you will be citing in the thesis for use with BibTeX. You can write it manually, but there are reference manager programs available that will create and manage it for you. Zotero is popular and integrates with RStudio IDE if you use that.
- `MastersDoctoralThesis.cls` – this is the class file that tells L^AT_EX how to format the thesis.
- `pdf` in docs folder – this is your typeset thesis.
- `Frontmater` folder – this has the files for the various front matter elements.

1.5 Filling in Your Information

Most of the personal information is found on in the `_quarto.yml` file.

- `author` – you; optionally add url
- `supervisor` – your supervisor; optionally add url.
- `university` – your university
- `department` – your department
- `faculty` – faculty name
- `group` – research group name (optional)
- `abstract`

1.6 The `tex\before-body.tex` File Explained

The `tex\before-body.tex` file contains the structure of the thesis and is a mix of Pandoc template and \LaTeX code. The bits that look like `$book.university$` say are Pandoc and are referencing variables in the `_quarto.yml` file. Knowing that, you should be able to figure out what is happening.

There are plenty of written comments that explain what pages, sections and formatting the \LaTeX code is creating. Each major document element is divided into commented blocks with titles in all capitals to make it obvious what the following bit of code is doing. Initially there seems to be a lot of \LaTeX code, but this is all formatting, and it has all been taken care of so you don't have to do it.

Many of the sections have `$if(...)$` so that the section is only included if you included information for that in `_quarto.yml`.

In the `_quarto.yml`, `pdf: toc: false` is used so that Quarto/Pandoc doesn't add a table of contents. This template puts the table of contents before the abbreviations and symbols pages and Quarto/Pandoc doesn't let us control where it puts the table of contents. So we have to add the TOC manually for pdf and pass in `toc: false`.

The list of figures and tables are all taken care of for you and do not need to be manually created or edited. The next set of pages are more likely to be optional and can be deleted since they are for a more technical thesis: insert a list of abbreviations you have used in the thesis, then a list of the physical constants and numbers you refer to and finally, a list of mathematical symbols used in any formulae. Making the effort to fill these tables means the reader has a one-stop place to refer to instead of searching the internet and references to try and find out what you meant by certain abbreviations or symbols.

The list of symbols is split into the Roman and Greek alphabets. Whereas the abbreviations and symbols ought to be listed in alphabetical order (and this is **not** done automatically for you) the list of physical constants should be grouped into similar themes.

The next page contains a one line dedication. Who will you dedicate your thesis to?

1.7 Adding Your Chapters and Appendices

Add your chapters and appendices to `_quarto.yml`. Note that the spacing is important as is the leading `-`.

1.8 Bibliography and Citations

Citations will be added and formatted automatically for you.

If you use the RStudio IDE, then you can link Zotero to RStudio and Quarto will find your citations for you when you enter `@`. This is in the visual editor mode. Make sure to search for videos on how to do this as using Zotero libraries will make your citation and bibliography management much much easier.

In the text use `@smith2000` to produce Smith (2000) add use `[@smith2000, @jones1999]` to produce (Smith 2000; Jones 1999). See the natbib cheatsheet for how to do other types of formatting for your in text citations. The bibliography style (`classoption: "authoryear"`) is used for the bibliography and is a fully featured style that will even include links to where the referenced paper can be found online.

Acá las referencias reales de Hawthorn et al. (2001), Wieman & Hollberg (1991), Arnold et al. (1998).

1.8.0.1 A Note on *bibtex*

The *bibtex* backend used in the template by default does not correctly handle unicode character encoding (i.e. “international” characters). You may see a warning about this in the compilation log and, if your references contain unicode characters, they may not show up correctly or at all. One solution to this is to use the *biber* backend instead of the outdated *bibtex* backend. This is done by finding this in `tex/in-header.tex`: `backend=bibtex` and changing it to `backend=biber`. Google a bit to find information on this.

1.9 Thesis Features and Conventions

To get the best out of this template, there are a few conventions that you may want to follow.

1.9.1 Printing Format

This thesis template is designed for double sided printing (i.e. content on the front and back of pages) as most theses are printed and bound this way. Switching to one sided printing is as simple as adding "oneside" to `classoptions`: in the `_quarto.yml` file. The headers for the pages contain the page number on the outer side (so it is easy to flick through to the page you want) and the chapter name on the inner side.

The text is set to 11 point by default with single line spacing, again, you can tune the text size and spacing should you want or need to using the class options. The spacing can be changed similarly by replacing the "singlespacing" with "onehalfspacing" or "doublespacing" in the class options.

1.9.2 Using US Letter Paper

The paper size used in the template is A4, which is the standard size in Europe. If you are using this thesis template elsewhere and particularly in the United States, then you may have to change the A4 paper size to the US Letter size. This can be by editing `geometry:` in `_quarto.yml` in the `pdf` format section.

1.10 Tables

When you render your Quarto thesis to PDF, it will process \LaTeX table code just fine. However, if you are doing that, I am guessing you would be writing your thesis in \LaTeX not Quarto. So I will not discuss \LaTeX tables. Instead here is how you create tables using R. Python and Julia users, you'll have your own table packages but the idea will be similar.

```
```{r}
#| label: tbl-cars
#| tbl-cap: This is my caption.
knitr::kable(head(mtcars))
```
```

The `#|` is what sets up our cross-references and you can then reference the table as `@tbl-cars`.

TABLE 1.1: This is my caption.

| | mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
|-----------|------|-----|------|-----|------|-------|-------|----|----|------|------|
| Mazda RX4 | 21.0 | 6 | 160 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 | 4 | 4 |

| | mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
|----------------|------|-----|------|-----|------|-------|-------|----|----|------|------|
| Mazda RX4 | 21.0 | 6 | 160 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 | 4 | 4 |
| Wag | | | | | | | | | | | |
| Datsun 710 | 22.8 | 4 | 108 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 | 4 | 1 |
| Hornet 4 Drive | 21.4 | 6 | 258 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 | 3 | 1 |
| Hornet | 18.7 | 8 | 360 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 | 3 | 2 |
| Sportabout | | | | | | | | | | | |
| Valiant | 18.1 | 6 | 225 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 | 3 | 1 |

This is Tabla 1.1.

See the Quarto manual for full examples and instructions.

1.11 Figures

Again we write in Quarto (markdown) not \LaTeX for our figures. You can write in \LaTeX if you really want but it would only be interpreted for the PDF output.

```

```{r}

#| label: fig-cars

#| fig-cap: This is my caption.

plot(mtcars[,1:4])

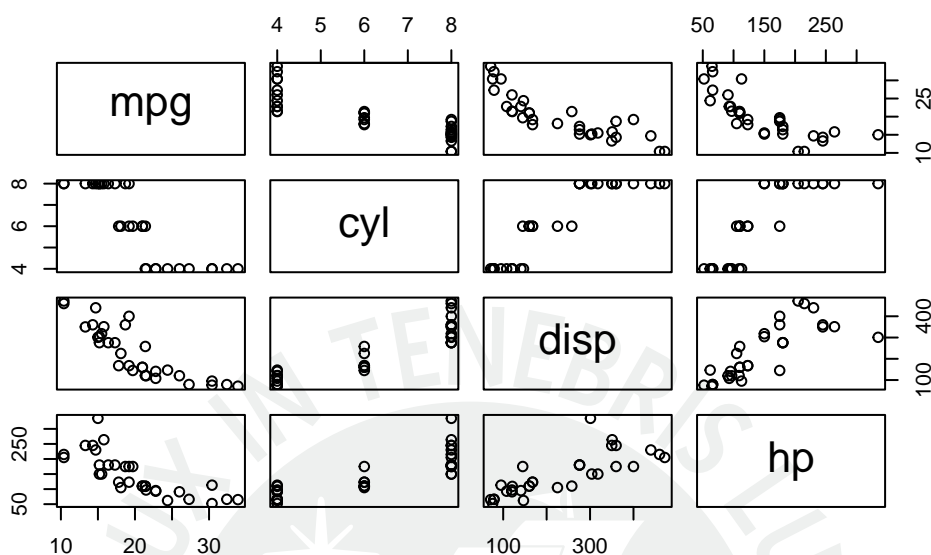
```

```

The `#|` is what sets up our cross-references and you can then reference the table as `@fig-cars`.

This is Figura 1.1.

FIGURA 1.1: This is my caption.



See the Quarto manual for full examples and instructions.

1.11.1 Typesetting mathematics

If your thesis is going to contain heavy mathematical content, \LaTeX will make it look beautiful, for HTML or PDF output.

The [Not So Short Introduction to LaTeX](#) should tell you everything you need to know for most cases of typesetting mathematics. If you need more information, a much more thorough mathematical guide is available from the AMS called, [A Short Math Guide to LaTeX](#).

1.12 In Closing

Good luck and have lots of fun!

Guide written originally by

Sunil Patel: <http://www.sunilpatel.co.uk>{www.sunilpatel.co.uk

and

Vel: <http://www.LaTeXTemplates.com>

and heavily shorted and adapted for [Quarto](#) by [Eli](#).



Chapter 2 Title

2.1 Main Section 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam ultricies lacinia euismod. Nam tempus risus in dolor rhoncus in interdum enim tincidunt. Donec vel nunc neque. In condimentum ullamcorper quam non consequat. Fusce sagittis tempor feugiat. Fusce magna erat, molestie eu convallis ut, tempus sed arcu. Quisque molestie, ante a tincidunt ullamcorper, sapien enim dignissim lacus, in semper nibh erat lobortis purus. Integer dapibus ligula ac risus convallis pellentesque.

2.1.1 Subsection 1

Nunc posuere quam at lectus tristique eu ultrices augue venenatis. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Aliquam erat volutpat. Vivamus sodales tortor eget quam adipiscing in vulputate ante ullamcorper. Sed eros ante, lacinia et sollicitudin et, aliquam sit amet augue. In hac habitasse platea dictumst.

2.1.2 Subsection 2

Morbi rutrum odio eget arcu adipiscing sodales. Aenean et purus a est pulvinar pellentesque. Cras in elit neque, quis varius elit. Phasellus fringilla, nibh eu tempus venenatis, dolor elit posuere quam, quis adipiscing urna leo nec orci. Sed nec nulla auctor odio aliquet consequat. Ut nec nulla in ante ullamcorper aliquam at sed dolor. Phasellus fermentum magna in augue gravida cursus. Cras sed pretium lorem.

Pellentesque eget ornare odio. Proin accumsan, massa viverra cursus pharetra, ipsum nisi lobortis velit, a malesuada dolor lorem eu neque.

2.2 Main Section 2

Sed ullamcorper quam eu nisl interdum at interdum enim egestas. Aliquam placerat justo sed lectus lobortis ut porta nisl porttitor. Vestibulum mi dolor, lacinia molestie gravida at, tempus vitae ligula. Donec eget quam sapien, in viverra eros. Donec pellentesque justo a massa fringilla non vestibulum metus vestibulum. Vestibulum in orci quis felis tempor lacinia. Vivamus ornare ultrices facilisis. Ut hendrerit volutpat vulputate. Morbi condimentum venenatis augue, id porta ipsum vulputate in. Curabitur luctus tempus justo. Vestibulum risus lectus, adipiscing nec condimentum quis, condimentum nec nisl. Aliquam dictum sagittis velit sed iaculis. Morbi tristique augue sit amet nulla pulvinar id facilisis ligula mollis. Nam elit libero, tincidunt ut aliquam at, molestie in quam. Aenean rhoncus vehicula hendrerit.

Chapter 3 Title

here() starts at D:/OneDrive - Universidad del Pacífico/quarto scripts/pucp-tesis

This is an example of how to use this template to render journal articles. This template is inspired by the Taylor and Francis rticles template for rmarkdown, repurposed for the Quarto publishing system.

This quarto extension format supports PDF and HTML outputs. This template is primarily focused on generating acceptable outputs from Quarto, but renders an acceptable HTML output using the standard Quarto options.

3.1 Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Here is a footnote reference,¹ and another.²

3.2 Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
[1] 2
```

This format hide chunks by default, but you can set `echo` option to `true` locally in the chunk:

¹Here is the footnote.

²Here's one with multiple blocks.

TABLA 3.1: A table.

| term | estimate | std.error | statistic | p.value |
|-------------|------------|-----------|------------|-----------|
| (Intercept) | 2.9324591 | 0.0982638 | 29.8427305 | 0.0000000 |
| EthN | -0.1739938 | 0.1213351 | -1.4339937 | 0.1515741 |
| SexM | -0.7145197 | 0.1222943 | -5.8426235 | 0.0000000 |
| AgeF1 | -0.0426993 | 0.1269111 | -0.3364507 | 0.7365310 |
| AgeF2 | -0.0863239 | 0.1616403 | -0.5340495 | 0.5933073 |
| AgeF3 | -0.1528978 | 0.1189753 | -1.2851227 | 0.1987494 |
| LrnSL | 0.2160818 | 0.1455811 | 1.4842716 | 0.1377369 |
| EthN:SexM | 0.4390243 | 0.0920790 | 4.7679077 | 0.0000019 |
| EthN:AgeF1 | -0.9288934 | 0.1465738 | -6.3373786 | 0.0000000 |
| EthN:AgeF2 | -1.3339773 | 0.1350383 | -9.8785113 | 0.0000000 |
| EthN:AgeF3 | -0.1124246 | 0.1347842 | -0.8341080 | 0.4042202 |
| EthN:LrnSL | 0.2641524 | 0.1137843 | 2.3215200 | 0.0202588 |
| SexM:AgeF1 | -0.0556536 | 0.1630311 | -0.3413682 | 0.7328264 |
| SexM:AgeF2 | 1.0994244 | 0.1528125 | 7.1945973 | 0.0000000 |
| SexM:AgeF3 | 1.1594892 | 0.1385899 | 8.3663319 | 0.0000000 |
| SexM:LrnSL | 0.0414270 | 0.1371756 | 0.3019998 | 0.7626522 |
| AgeF1:LrnSL | -0.1301879 | 0.1568800 | -0.8298561 | 0.4066201 |
| AgeF2:LrnSL | 0.3734020 | 0.1456293 | 2.5640585 | 0.0103456 |
| AgeF3:LrnSL | NA | NA | NA | NA |

```
# install.packages("broom")
# install.packages("kableExtra")
data("quine", package = "MASS")
m_pois <- glm(Days ~ (Eth + Sex + Age + Lrn)^2, data = quine, family = poisson)
kableExtra::kable_styling(
  kableExtra::kbl(broom::tidy(m_pois))
)
```

3.3 Markdown Basics

This section of the template is adapted from [Quarto's documentation on Markdown basics](#).

3.3.1 Text Formatting

| Markdown Syntax | Output |
|---|---|
| <code>*italics*</code> and <code>**bold**</code> | <i>italics</i> and bold |
| <code>superscript²</code> / <code>subscript₂</code> | superscript ² / subscript ₂ |
| <code>~~strikethrough~~</code> | strikethrough |
| <code>`verbatim code`</code> | verbatim code |

3.3.2 Headings

| Markdown Syntax | Output |
|---------------------------|---------------------|
| <code>## Header 2</code> | <u>3.4 Header 2</u> |
| <code>### Header 3</code> | 3.4.1 Header 3 |

3.4.2 Equations

Use `$` delimiters for inline math and `$$` delimiters for display math. For example:

| Markdown Syntax | Output |
|--|-------------------------|
| inline math: <code>\$E = mc^2\$</code> | inline math: $E = mc^2$ |
| display math: | display math: |
| <code>\$\$E = mc^2\$\$</code> | $E = mc^2$ |

If assigned an ID, display math equations will be automatically numbered:

$$\frac{\partial C}{\partial t} + \frac{1}{2}\sigma^2 S^2 \frac{\partial^2 C}{\partial C^2} + rS \frac{\partial C}{\partial S} = rC \quad (3.1)$$

3.4.3 Other Blocks

| Markdown Syntax | Output |
|---------------------|---------------------|
| > Blockquote | Blockquote |
| Line Block | Line Block |
| Spaces and newlines | Spaces and newlines |
| are preserved | are preserved |

3.4.4 Cross-references

| Markdown Format | Output |
|---------------------------------|----------------------------------|
| @fig-sunflower is pretty. | Figura 3.1 is pretty. |
| @tbl-glm was created from code. | Tabla 3.1 was created from code. |
| @sec-crf is this section. | Sección 3.4.4 is this section. |
| @eq-black-scholes is above. | Ecuación 3.1 is above. |

See the [Quarto documentation on cross-references for more](#).

3.5 Citations

This section of the template is adapted from the [Quarto citation documentation](#).

FIGURA 3.1: Mi sunflower



Quarto supports bibliography files in a wide variety of formats including BibTeX and CSL. Add a bibliography to your document using the `bibliography` YAML metadata field. For example:

```
---  
title: "My Document"  
bibliography: references.bib  
---
```

See the [Pandoc Citations](#) documentation for additional information on bibliography formats.

3.5.1 Citation Syntax

Quarto uses the standard Pandoc markdown representation for citations. Here are some examples:

| Markdown Format | Output |
|---|---|
| <pre>Blah Blah [see @knuth1984, pp. 33-35; also @wickham2015, chap. 1]</pre> | <p>Blah Blah (see Knuth, 1984, pp. 33-35; also Wickham, 2015, chap. 1)</p> |
| <pre>Blah Blah [@knuth1984, Blah Blah (Knuth, 1984, pp. 33-35, 38-39 and passim) pp. 33-35, 38-39 and passim]</pre> | <p>Blah Blah (Knuth, 1984, pp. 33-35, 38-39 and passim)</p> |
| <pre>Blah Blah [@wickham2015; @knuth1984]. Wickham says blah [-@wickham2015] @knuth1984 says blah.</pre> | <p>Blah Blah (Knuth, 1984; Wickham, 2015).</p> <p>Wickham says blah (2015)</p> <p>Knuth (1984) says blah.</p> |
| <pre>@knuth1984 [p. 33] says blah.</pre> | <p>Knuth (1984, p. 33) says blah.</p> |

See the [Pandoc Citations](#) documentation for additional information on citation syntax.

To provide a custom citation stylesheet, provide a path to a CSL file using the `csl` metadata field in your document, for example:

```
---  
title: "My Document"  
bibliography: references.bib  
csl: nature.csl  
---
```



Último texto.



Referencias

- Arnold, A. S., Wilson, J. S., Boshier, M. G., & Smith, J. (1998). A Simple Extended-Cavity Diode Laser. *Review of Scientific Instruments*, 69(3), 1236-1239. <http://link.aip.org/link/?RSI/69/1236/1>
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Frequently Asked Questions

A.1 How do I change the colors of links?

Pass in `urlcolor:` in yam!l. Or set these in the include-in-header file.

If you want to completely hide the links, you can use:

`{\hypersetup{allcolors=.}},` or even better:

`{\hypersetup{hidelinks}}.`

If you want to have obvious links in the PDF but not the printed text, use:

`{\hypersetup{colorlinks=false}}.`

