

Essential Research Toolkit for the Humanities

Week 13: Reference management and the command line

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July 4, 2022

Psycholinguistics and Cognitive Modeling Lab

Homework

Upload a **.tex**, a **.pdf**, and a **.bib** file to ILIAS.

I asked for `authortitle` or `apa`, but that didn't always work. Why?

consistency in a text even if they were warned and know the correct word (Erickson and Mattson, “From Words to Meaning: A semantic illusion”). Cook (“The Moses Illusion in Reading Comprehension”) posits that this illusion may occur as a result of the relationship between the distorted and correct items.

reference only the author \item reference only the publication year

- reference only the author \citeauthor{}
- reference only the publication year \citeyear{}
- reference only the title \citetitle{}

Homework

Cite at least one journal @article{}

Cite at least one book @book{}

Cite at least one book part @incollection{}

Within .tex file

```
\bibitem{frings2018}
Daniel Frings (2018). \textit{Social psychology}.
Routledge
```

In separate .bib file

```
@book{frings2018,
  title={Social psychology},
  author={Frings, Daniel},
  year={2018},
  publisher={Routledge}
}
```

Homework: overall, you did great!

**ME DELIVERING AN ASSIGNMENT
FULLY KNOWING ITS GARBAGE**



**MY POOR LECTURER
HAVING TO READ IT**



Questions?

Communicating

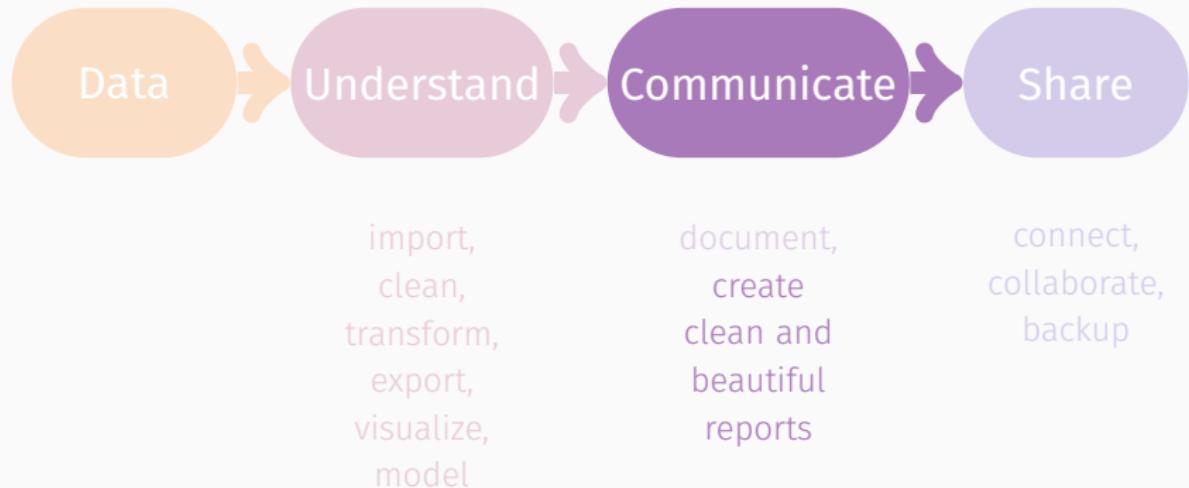


Table of contents

1. Reference managers
2. Literature research
3. Mastering the command line
4. Text editors
5. Homework assignment

Reference managers

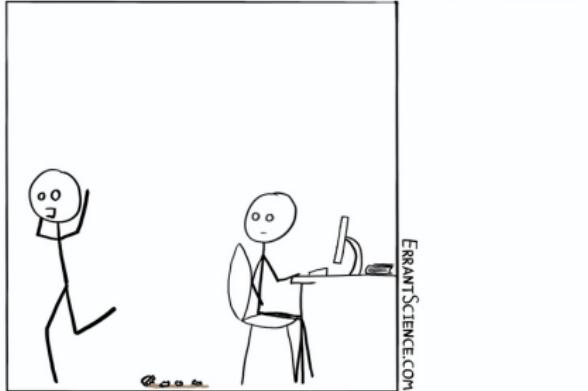
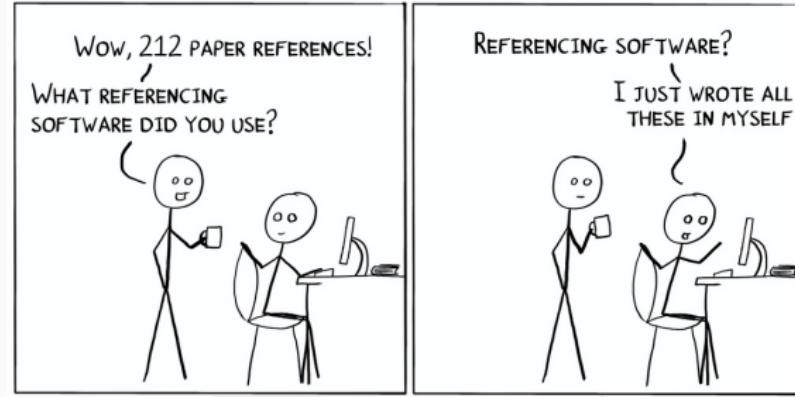
Managing large .bib files

You can keep your entire bibliography in a huge .bib file...

```
1 % ===== A
2 @article{almor1999,
3   Title      = {Noun-Phrase Anaphora and Focus: The Informational Load
4   Hypothesis},
5   Author     = {Almor, Amit},
6   Journal    = {Psychological Review},
7   Volume     = {106},
8   Number     = {4},
9   Pages      = {748},
10  Year       = {1999},
11  Publisher  = {American Psychological Association},
12  doi        = {10.1037/0033-295X.106.4.748}
13 }
14
15 @inproceedings{arche2017,
16   Title      = {Towards a Unified Treatment of Spanish Copulas},
17   Author     = {Arche, Mar\'ia J and F\'abregas, Antonio and Mar\'ia
18   n, Rafael},
19   Booktitle  = {Romance Languages and Linguistic Theory 11: Selected Papers
20   from the 44th Linguistics Symposium on Romance Languages},
21   Pages      = {33-52},
22   Year       = {2017},
23   Publisher  = {John Benjamins Publishing Company},
24   doi        = {10.1075/rllt.11.02arc}
25 }
26
27 @incollection{asher2000,
28   Title      = {Events, Facts, Propositions, and Evolutive Anaphora},
29   Author     = {Asher, Nicholas},
30   Booktitle  = {Speaking of Events},
31   Pages      = {123-158},
32   Year       = {2000},
33   Editor     = {Higginbotham, James and Pianesi, Fabio and Varzi, Achille},
34   Publisher  = {Oxford University Press},
35   Address    = {New York, Oxford}
36 }
37
38 @book{asher2011,
39   Title      = {Lexical Meaning in Context: A Web of Words},
40   Author     = {Asher, Nicholas},
41   Year       = {2011},
42   Publisher  = {Cambridge University Press},
43   Address    = {Cambridge}
44 }
45
46 @incollection{auer2006,
47   Title      = {Construction [G]rammar Meets [C]onversation: Einige
48   \"Uberlegungen am [B]ispiel von ''so''-[K]onstruktionen},
49   Author     = {Auer, Peter},
50   Pages      = {291-314},
51   Booktitle  = {Konstruktion in der Interaktion},
```

Reference manager

...or use a reference management software.



Reference managers: Overview

Software	Windows	Mac OS	Linux
Citavi	✓	✗	✗
EndNote	✓	✓	✗
Mendeley	✓	✓	✓
Zotero	✓	✓	✓
JabRef	✓	✓	✓

For normal people: [Zotero](#)

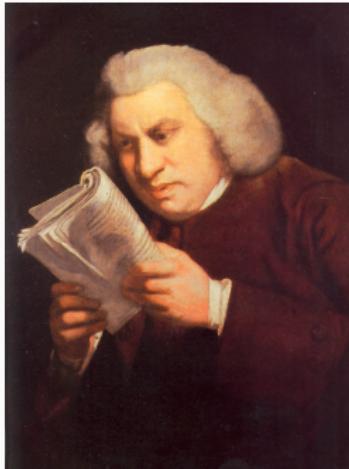
For academics with gargantuan libraries: [EndNote](#)

There are others out there (e.g. BibDesk)

	Citavi	EndNote	JabRef	Mendeley	Zotero
Notes	✓	✓	✓	✓	✓
Sharing	✓	✓	✓	✓	✓
Duplicate detection	✓	✓	✓	✓	✓
Browser extension	✓	✓	✓	✓	✓
Export (Word & T _E X)	✓	✓	T _E X	✓	✓
Annotation	✓	✓	✗	✓	✗
Spellcheck	✓	✓	✗	✗	✗
Cost ¹	€73 1 year	€131 1 time	free	free-ish	free-ish
Cloud storage	unlimited	unlimited	✗	2GB, pay yearly for more	300MB, pay yearly for more
Is evil 😈	✓-ish	✓-ish	✗	✓	✗

¹Some licenses may be provided by your university/institute. Ask, make them pay.

When to use it?



Zotero

thesis - Zotero

File Edit View Tools Help

My Library thesis

Duplicate Item... Unfiled Items Trash

No tags to display

ggsignif: Significance Brackets for 'ggplot2' Ahlmann-Elte and Patil

rmarkdown: Dynamic Documents for R Allaire et al.

qqplotr: Quantile-Quantile Plot Extensions for 'g... Almeida et al.

Noun-Phrase Anaphora and Focus: The Informati... Almor

Towards a Unified Treatment of Spanish Copulas Arche et al.

Events, Facts, Propositions, and Evolutive Anaph... Asher

Lexical Meaning in Context: A Web of Words Asher

Construction Grammar Meets Conversational Entit... Auer

gridExtra: Miscellaneous Functions for "Grid" Gra... Auguie

The R Package `textrmnorm`: The Multivariate N... Azzalini and Genz

languages: Analyzing Linguistic Data: A Practical I... Baayen and Shafaei-Bajestan

magrittr: A Forward-Pipe Operator for R Bache and Wickham

Components of Fluent Reading Baddeley et al.

Coercion and Compositionality Baggio et al.

Computing and Recomputing Discourse Models: ... Baggio et al.

Fitting Linear Mixed-Effects Models Using `lme4` Bates et al.

Matrix: Sparse and Dense Matrix Classes and Met... Bates and Maechler

minqa: Derivative-Free Optimization Algorithms ... Bates et al.

The Development of the Copula in Child English: T... Becker

Copula Omission Is a Grammatical Reflex Becker

isn't Becker

effects: Estimation of Effect Size Indices and S... Ben-Shachar et al.

tmvnsim: Truncated Multivariate Normal Simulati... Bhattacharjee

Duden Online-Wörterbuch Bibliographisches Institut Gm...

Formal and Lexical Semantics Bierwisch

Semantische und konzeptuelle Repräsentation le... Bierwisch

Lexical Information from a Minimalist Point of Vi... Bierwisch

Effects of Syntactic Prominence on Eye Movemen... Birch and Rayner

Kausale Satzverknüpfungen im Deutschen Blöhörm

A Semantic Typology of Sentence Connectives Blöhörm

Semantische Unterbestimmtheit bei Konnektoren Blöhörm

Some Aspects of Optimality in Natural Language ... Blutner

All Fields & Tags

Info Notes Tags Related

Item Type Conference Paper

Title Towards a Unified Treatment of Spanish Copulas

Author Arche, Maria J

Author Fábregas, Antonio

Author Marin, Rafael

Abstract Date 2017

Proceedings Title Romance Languages and Linguistic Theory 11: Selected Papers from the 44th Linguistics Symposium on Romance Languages

Conference Name Place

Publisher John Benjamins Publishing Company

Volume

Pages 33–52

Series

Language DOI 10.1075/rllt.11.02arc

ISBN

Short Title URL

Accessed Archive

Loc. in Archive

Library Catalog

Call Number Rights

Extra

Date Added 6/27/2022, 2:51:31 PM

Modified 6/27/2022, 2:51:31 PM

Zotero

- active community of users and developers
- open source, cross-platform
- no² typing necessary
- automatic formatting
- works with L^AT_EX, Word, LibreOffice
- Notifies you about retracted papers
- Variants:
 - Desktop-version
 - Browser plugin
 - Text processor plugin
 - Zotfile plugin to manage your attachments: rename, move, and attach PDFs

²Terms and conditions apply

Summary



Look at them, choose one, and stick with it.

Citavi tutorial:

<https://www.youtube.com/watch?v=9GDYEGWooXE>

EndNote tutorial:

<https://www.youtube.com/watch?v=IKPZfGPssXtg>

Questions?

Literature research

Starting research



References [edit]

1. ^ n.b. Legally, German from 3 July 1938: Verordnung über die deutsche Staatsangehörigkeit im Lande Österreich, 3 July 1938@.
2. ^ GLOCK, HANS-JOHANN. "WAS WITTGENSTEIN AN ANALYTIC PHILOSOPHER?" Metaphilosophy, vol. 35, no. 4, 2004, pp. 419-44, <http://www.jstor.org/stable/24459710@>. Accessed 17 Apr. 2022.
3. ^ Rodoch, Victor. "Wittgenstein's Philosophy of Mathematics"@. In Zalta, Edward N. (ed.), Stanford Encyclopedia of Philosophy (Spring 2018 ed.).
4. ^ Graham, George. "Behaviorism"@. In Zalta, Edward N. (ed.), Stanford Encyclopedia of Philosophy (Spring 2019 ed.).
5. ^ Tang, Hao (February 2014). "It is not a something, but not a nothing either!"—McDowell on Wittgenstein". Synthese, 191 (3): 557-567. doi:10.1007/s11229-013-0291-5@. JSTOR 24021447@. S2CID 29142299@.
6. ^ Magee, Bryan (14 August 1997). *The philosophy of Schopenhauer*@. Oxford University Press. doi:10.1093/0198237227.003.0014@. ISBN 978-0-19-823722-8.
7. ^ "Wittgenstein Reads Waismann"@. ndpr.nd.edu. Retrieved 4 February 2021.
138. ^ n.b. McGuinness 1988, p. 118.
139. ^ Monk 1990, p. 76.
140. ^ McGuinness 2008, p. 39.
141. ^ n.b. McGuinness 2008, p. 59.
142. ^ Monk 1990, p. 75.
143. ^ McGuinness 2008, p. 63.
144. ^ Flowers & Ground 2015, p. 151.
145. ^ n.b. Monk 1990, p. 83.
146. ^ Monk 1990, pp. 583-586.
147. ^ Monk 1990, p. 369.
148. ^ Monk 1990, pp. 238-240, 258, 280-281, 294, 318-319.
149. ^ Goldstein 1999, p. 179.
150. ^ von Wright 1990, p. 221.
151. ^ von Wright 1990, p. 230.
152. ^ Monk 1990, p. 58ff.
153. ^ n.b. von Wright 1990, p. 88.
154. ^ n.b. Kanterian 2007, p. 40.
155. ^ Monk 1990, p. 71.

- look at overview articles & their references
- Library website & ask librarians:
<https://www.ub.uni-stuttgart.de/>
- Google scholar: scholar.google.com
- Connected papers: <https://www.connectedpapers.com/>
- Elicit: <https://elicit.org/>

Get that paper

Do this:

 University website

 Write to authors or check their websites

Totally never do this:

 Library Genesis: <https://libgen.is/>

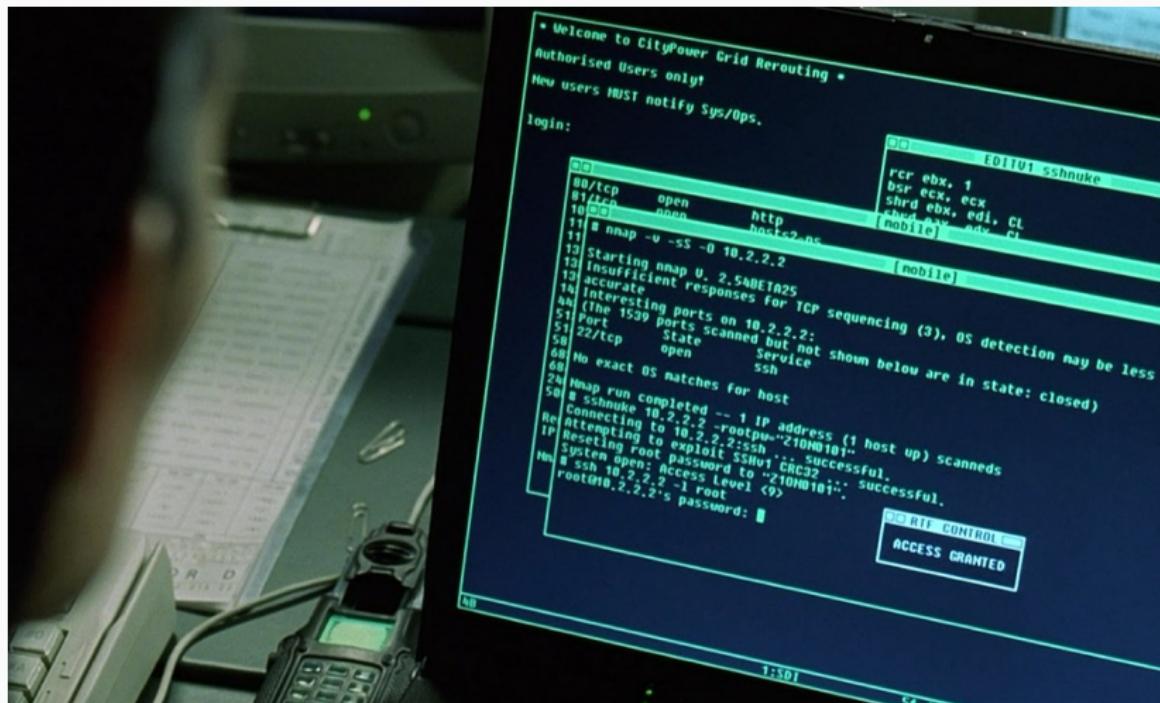
 Sci-hub: <https://sci-hub.se/>

 Z-library: <https://z-lib.org/>

 Reddit: <https://www.reddit.com/r/scholar>

Mastering the command line

What is the command line interface (CLI)



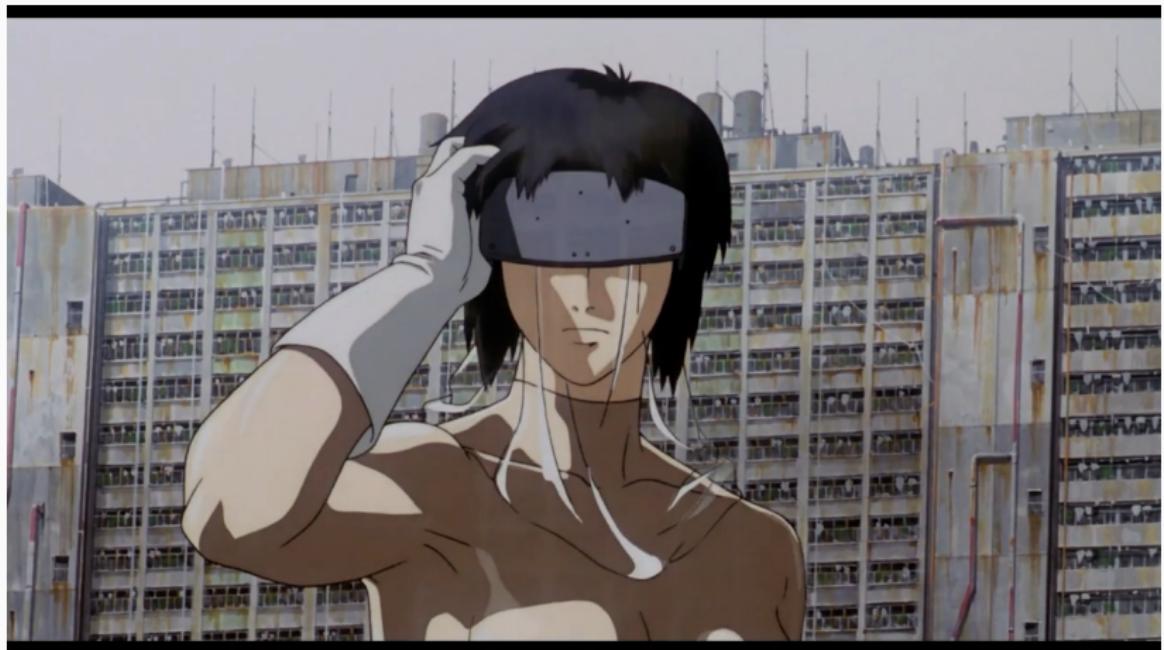
GUI but in text form (how everything worked way back when).

Shell, console, terminal, or command line?



A **console** is (generally) a type of physical terminal (e.g. Xbox, PlayStation, Nintendo Switch, Wii). It is sometimes synonymous with a terminal. In R-Studio: Console for R, Terminal for computer.

Shell, console, terminal, or command line?



A **shell** is a command-line interpreter (e.g. Bash, Power Shell, CMD). It's a program that runs in the terminal. It processes commands and outputs the results.

Why is my evil lecturer making me learn it?

Advantages of a CLI

- greater control of an OS or application
- more informative
- helps with troubleshooting (e.g. network connection issues)
- you type faster than you click
- required for many devices (e.g. eye-trackers)
- handle big data
- automate
- looks cool

Disadvantages of a CLI

- GUI is more user-friendly
- steep(er) learning curve
- need to memorize different commands which can differ between shells
- no undo

Getting around

<code>pwd</code>	print working directory
<code>ls</code>	list all files or directories in the current directory
<code>cd</code>	change directory to somewhere else: <code>cd ERT4H/Data/</code>
<code>cd ..</code>	change directory to one up: <code>cd ..</code> → ERT4H/
<code>mkdir</code>	make directory : <code>mkdir Boom</code>
<code>cp</code>	copy file(s): <code>cp virus.txt Boom/</code>
<code>mv</code>	move file(s): <code>mv virus.txt Boom/</code>
<code>diff</code> and <code>sdiff</code>	list differences (side-by-side) between files: <code>diff virus.txt virus_evil.txt</code>
<code>rm</code>	remove file(s) forever: <code>rm virus.txt</code>

Looking for stuff: grep (global regular expression print)



Search for a sequence of characters in a specified file or files

```
grep OPTIONS PATTERN WHERE
grep Winter virus_benign.txt
grep "ha ha" virus.txt virus_evil.txt
grep virus *
grep -w Winter virus_benign.txt
grep -a Winter virus_benign.txt
grep -v "ha ha" virus.txt virus_evil.txt
grep -i platz virus_benign.txt
grep -c am *
grep -c -i -w Winter *
```

Other tools

ping	ring the door bell and see how long until it opens <i>Am I online? Is the website up? Is the response slow/fast?</i>
	ping google.com
date	date and time now
clear	clear the terminal
ps aux	show all processes for all users
kill	stop a process with a PID
exit	close the terminal
shutdown	shutdown the computer

Text editors

Why use a text editor?

Text editors allow you to write, open, edit, and create plain text files.

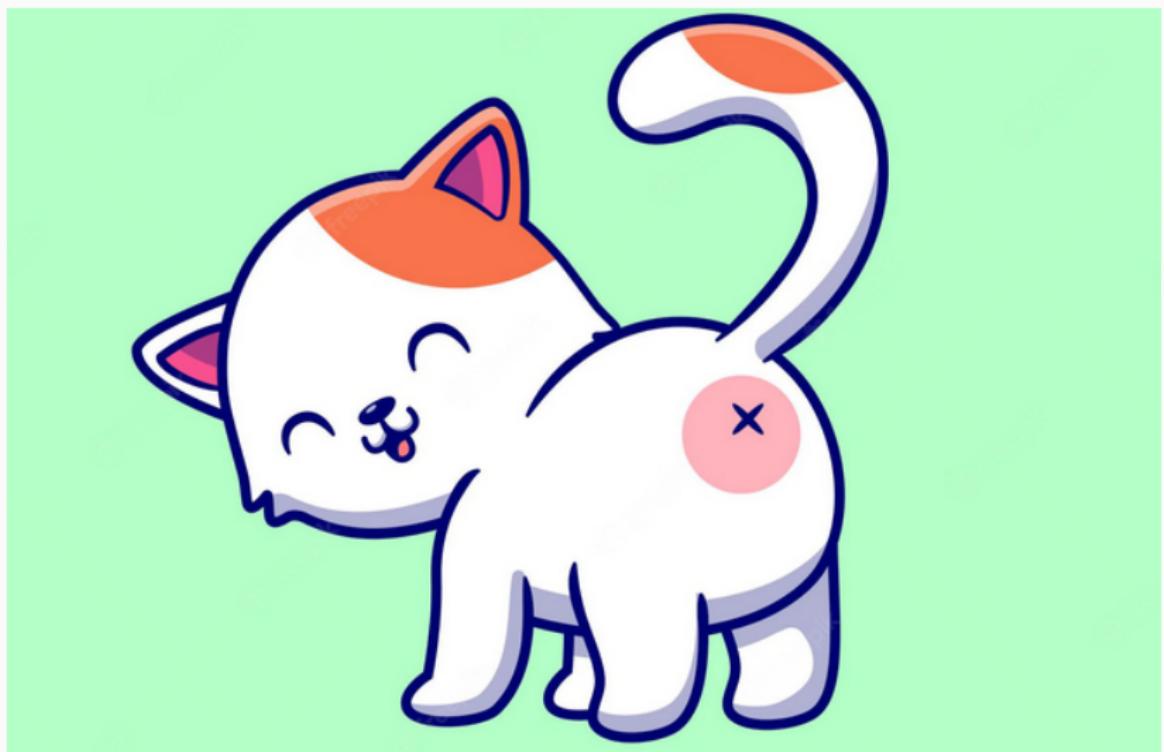
Plain vs. rich text: No formatting (typeface, size, weight, style), nothing unexpected, only text.

Most portable way of sharing files.

Useful for previewing data or writing code.

Highlight any syntax (e.g. R, markdown, \TeX)

Which editor to chose?



Opinions on text editors are like butts: everyone has one.

Which do I have to install?

1. Sublime text <https://www.sublimetext.com/>
(free but will nag you to buy it)
2. Atom <https://atom.io/>
3. Microsoft VS Code <https://code.visualstudio.com/>
4. Adobe Brackets <https://brackets.io/>
(it's Adobe...)
5. Notepad++ <https://notepad-plus-plus.org/>
(step up from Notepad)
6. Honorable mentions:
 - Emacs <https://www.gnu.org/software/emacs/>
 - Vim <https://www.vim.org/>

Homework assignment

Homework assignment due July 11

- How many times does the word “verhalten” appear in the files **corpus1.txt**, **corpus2.txt**, and **corpus3.txt**?
- What are all the instances where the whole word “Berlin” appears in these 3 files? Capitalization is not important:
✓ BeRlIn ✗ Berliner
- What are the differences between **corpus2.txt** and **corpus3.txt**?
- Find the changes I made in the big project (files: **big_project1.zip** vs **big_project2.zip**) → I didn’t compile it so the PDF will look the same.
- Execute the following command, follow the instructions, and report in 2–5 sentences how far you got with it:
telnet ateraan.com 4002

Upload the solutions as a **single markdown file**.