How to Do Qualitative Analysis Like a Robot 🤖

INFO 6201

Benjamin Freixas Emery / 2024-12-11

How I like to do work:

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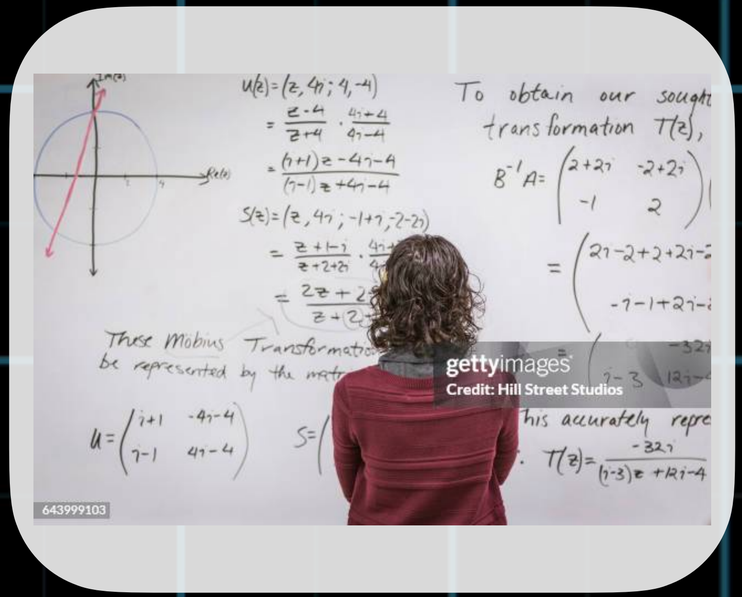

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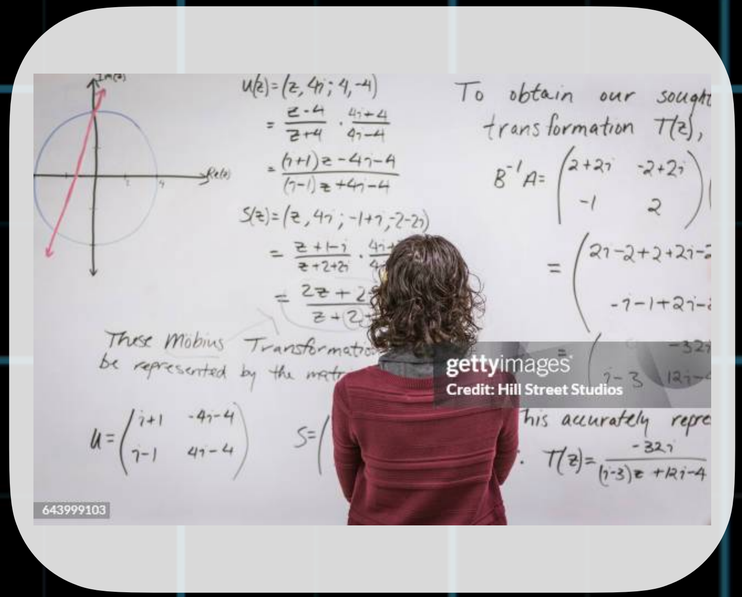

cool!

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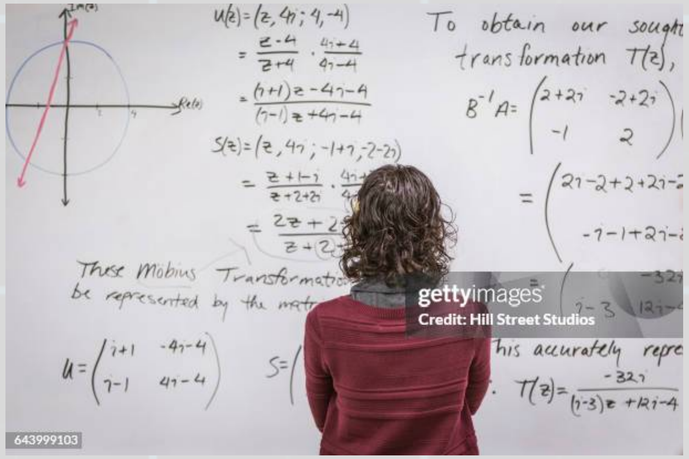

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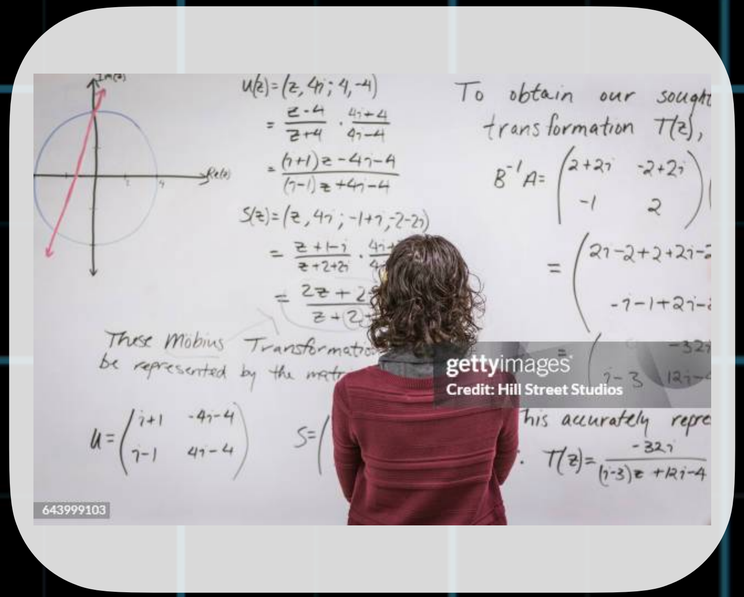

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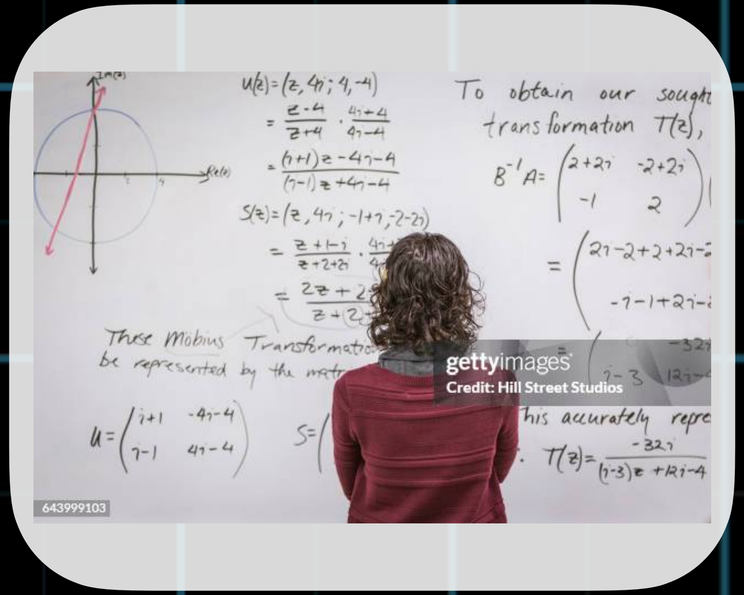

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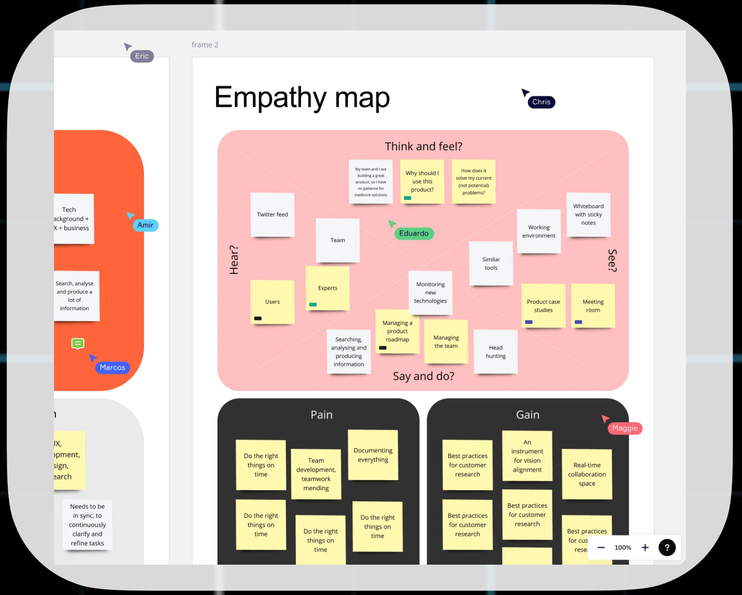

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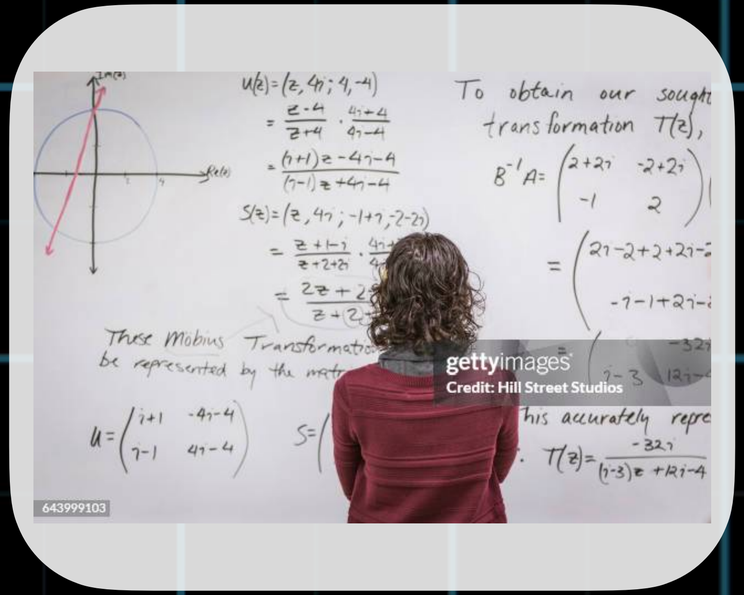

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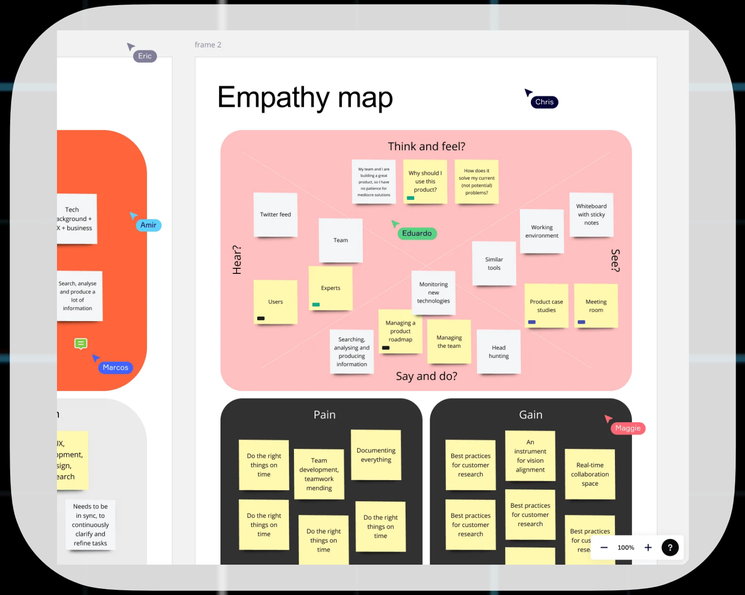

ew!

How someone else has put it

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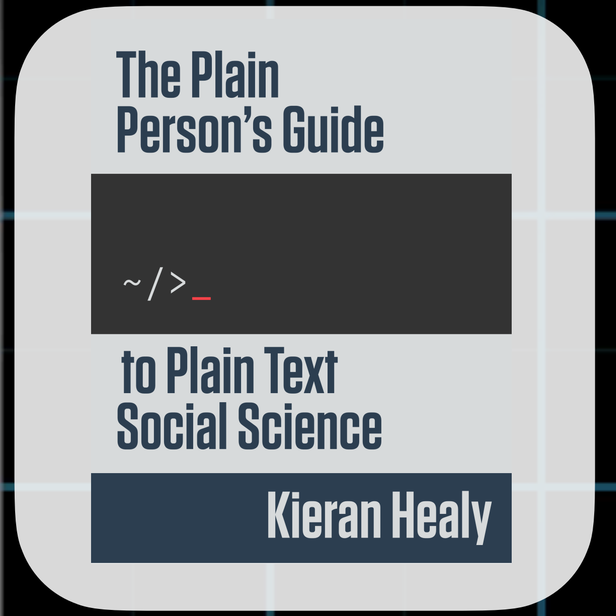

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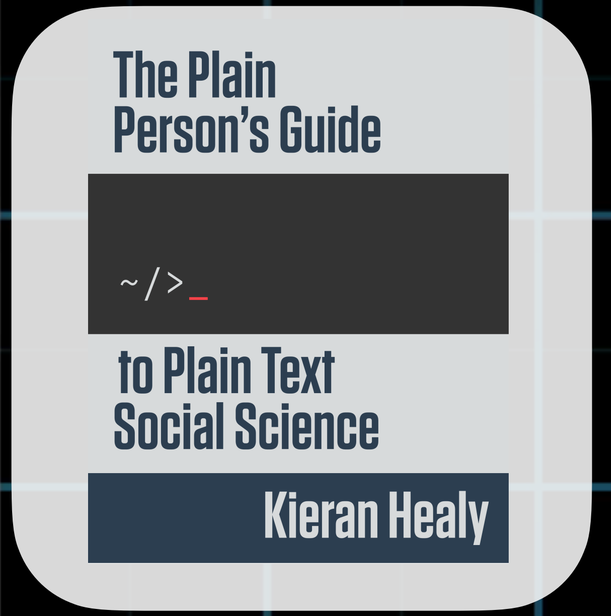

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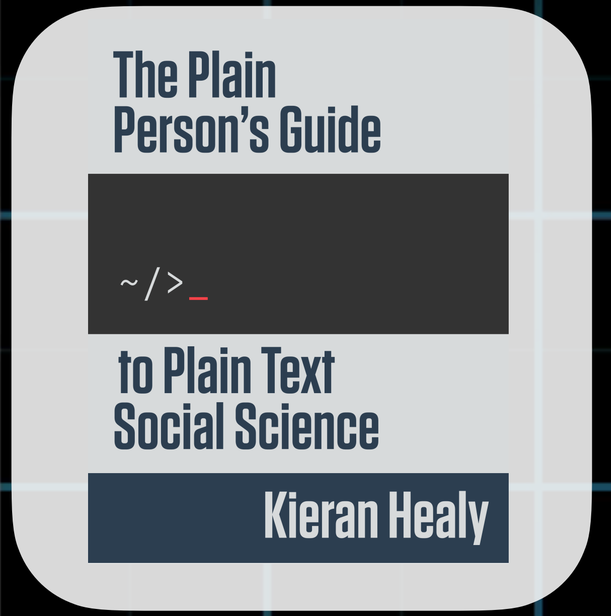

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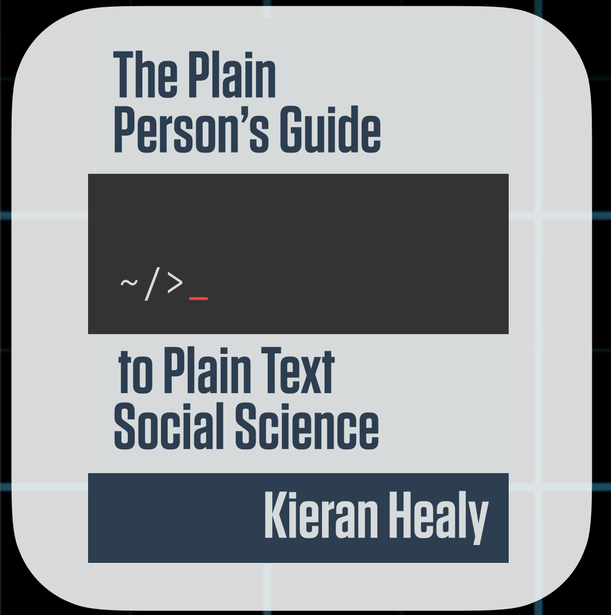

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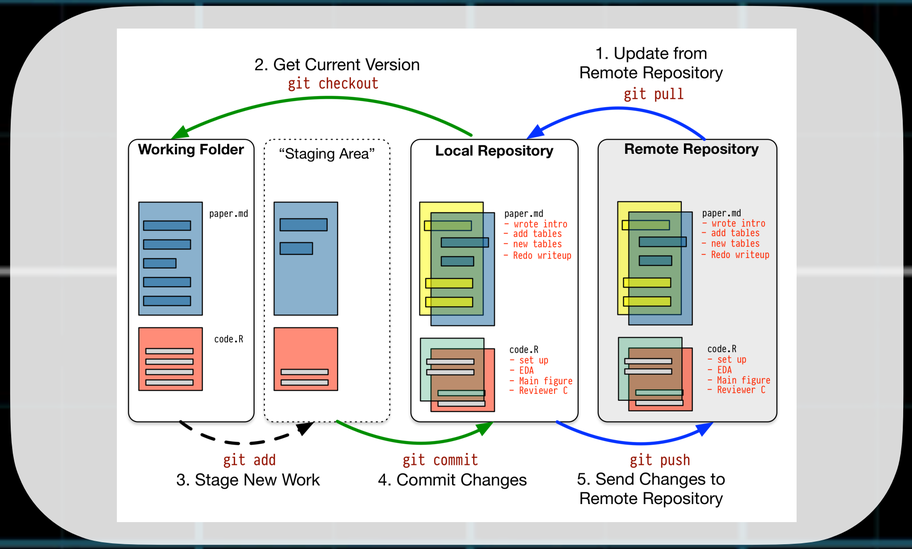

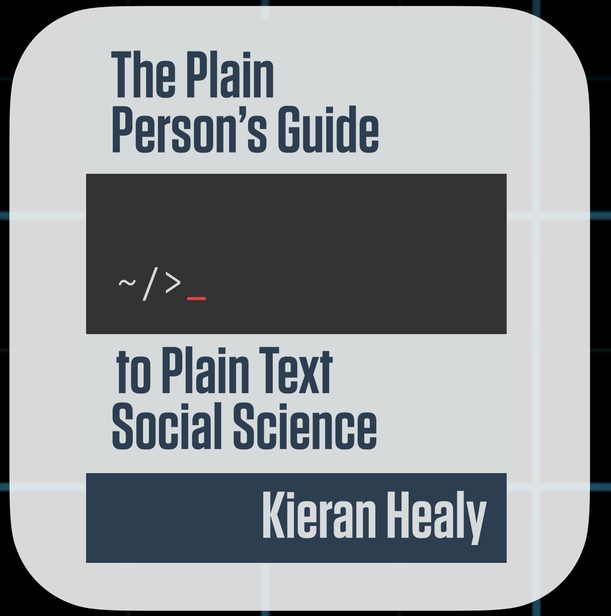

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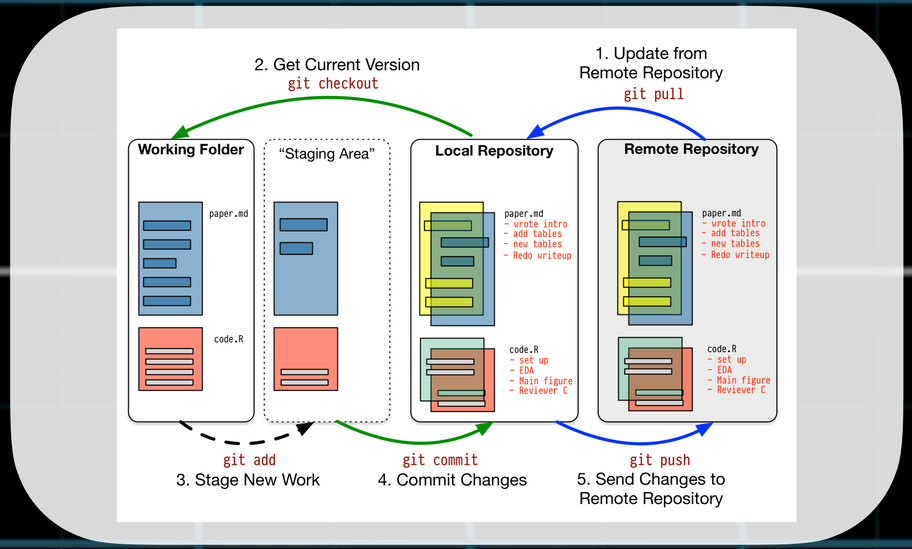

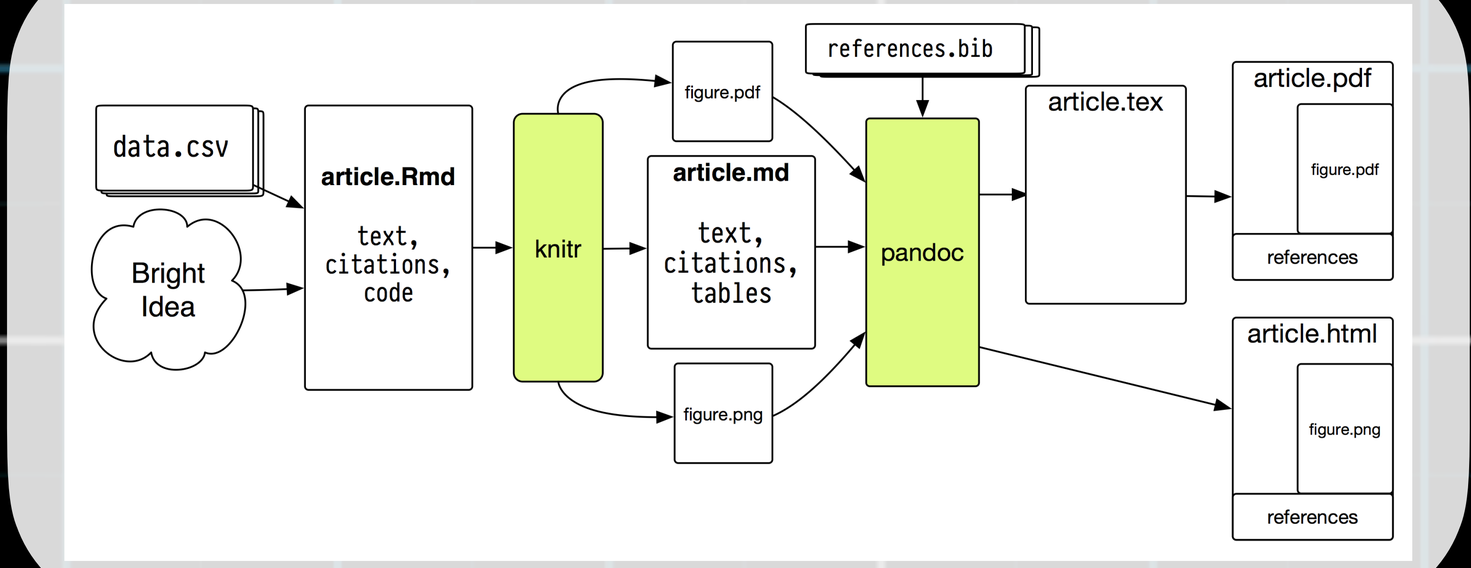

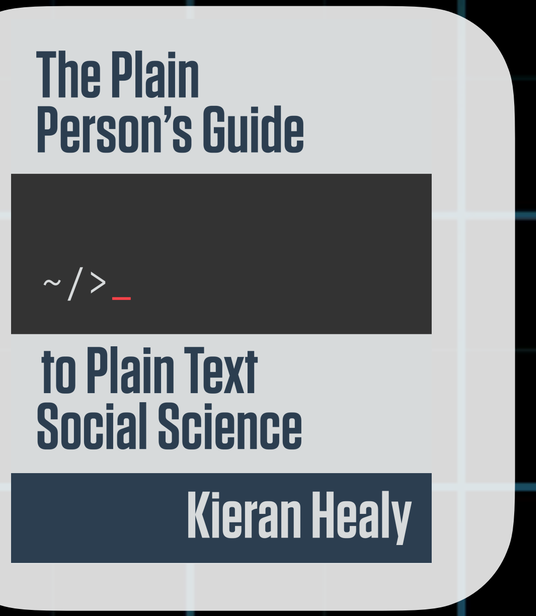

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Applying this to qualitative work

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```
% pip install qualitative coding
```

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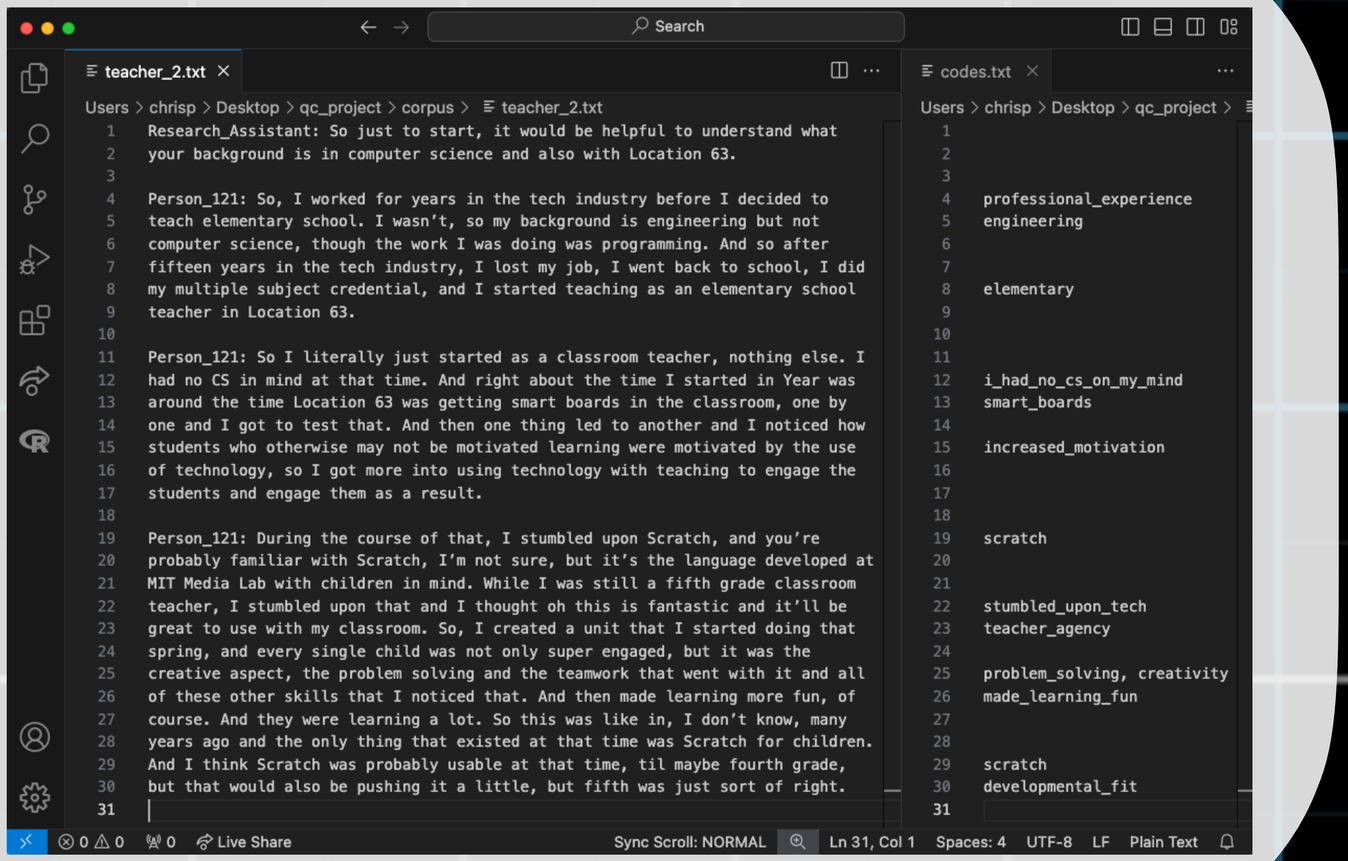

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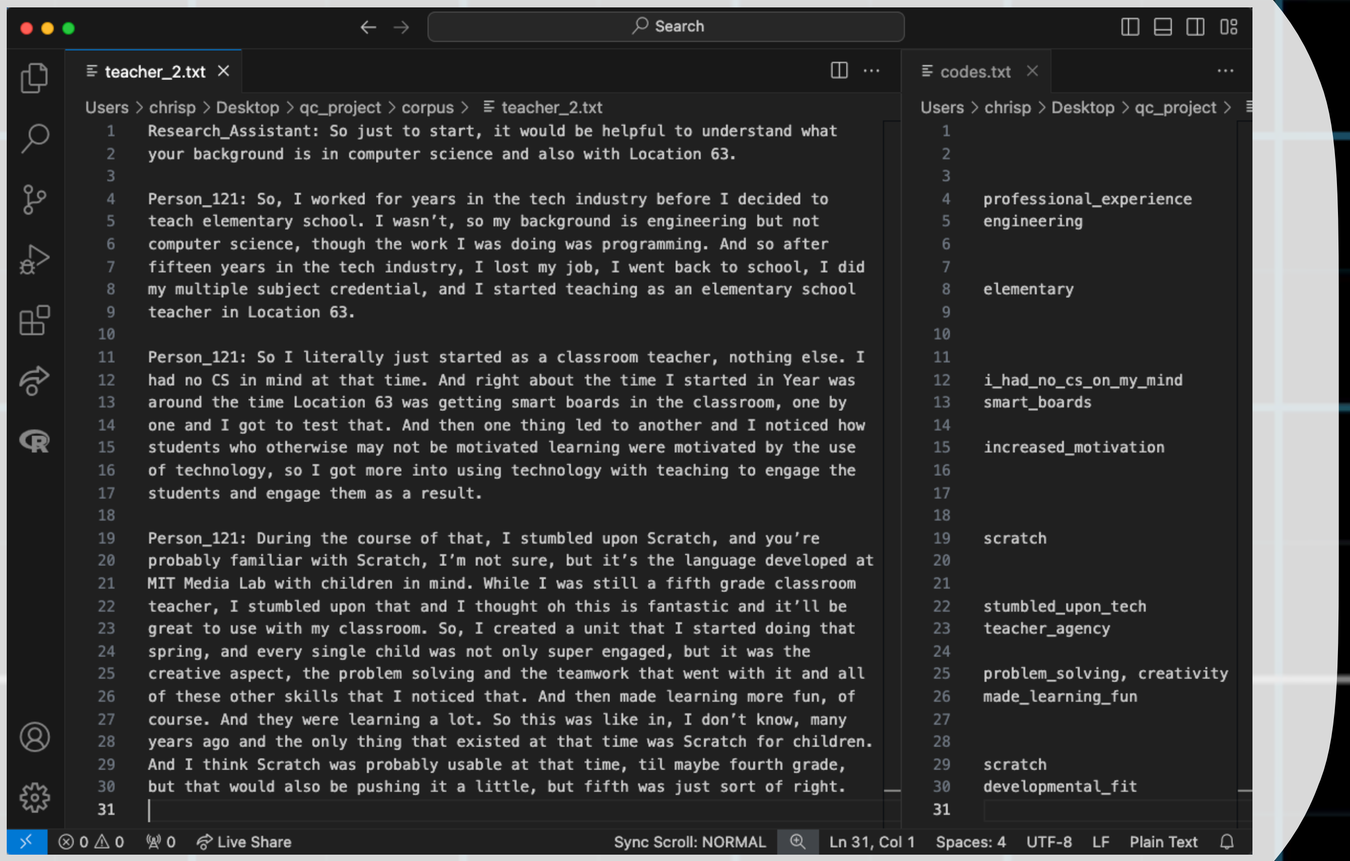


```
% qc codes stats

Code                      Count
-----------------------  -------
creativity                    1
developmental_fit             1
elementary                    1
engineering                   1
i_had_no_cs_on_my_mind        1
increased_motivation          1
made_learning_fun             1
problem_solving               1
professional_experience       1
scratch                       2
smart_boards                  1
stumbled_upon_tech            1
teacher_agency                1
```

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```
% code codebook.yaml
```

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```
- creativity
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- scratch
- smart_boards
- stumbled_upon_tech
- teacher_agency
```

```
- reasons_for_teaching_cs:
  - creativity
  - increased_motivation
  - made_learning_fun
  - problem_solving
- teacher_identity:
  - elementary
  - engineering
  - professional_experience
- technologies:
  - scratch
  - smart_boards
- trajectory:
  - developmental_fit
  - i_had_no_cs_on_my_mind
  - stumbled_upon_tech
  - teacher_agency
```

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Applying this to qualitative work

```
% qc codes stats -ra
Code                          Count    Total
--------------------------  -------  -------
reasons_for_teaching_cs           0        4
.  creativity                     1        1
.  increased_motivation           1        1
.  made_learning_fun              1        1
.  problem_solving                1        1
teacher_identity                  0        3
.  elementary                     1        1
.  engineering                    1        1
.  professional_experience        1        1
technologies                      0        3
.  scratch                        2        2
.  smart_boards                   1        1
trajectory                        0        4
.  developmental_fit              1        1
.  i_had_no_cs_on_my_mind         1        1
.  stumbled_upon_tech             1        1
.  teacher_agency                 1        1
```

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```
% qc codes find trajectory -r

teacher_2.txt (4)
================================================================================
[9:14]

                                                                                |
Person_121: So I literally just started as a classroom teacher, nothing else. I |
had no CS in mind at that time. And right about the time I started in Year was  | i_had_no_cs_on_my_mind
around the time Location 63 was getting smart boards in the classroom, one by   |
one and I got to test that. And then one thing led to another and I noticed how |

[19:25]
probably familiar with Scratch, I’m not sure, but it’s the language developed at |
MIT Media Lab with children in mind. While I was still a fifth grade classroom   |
teacher, I stumbled upon that and I thought oh this is fantastic and it’ll be    | stumbled_upon_tech
great to use with my classroom. So, I created a unit that I started doing that  | teacher_agency
spring, and every single child was not only super engaged, but it was the        |
creative aspect, the problem solving and the teamwork that went with it and all |

[27:30]
years ago and the only thing that existed at that time was Scratch for children. |
And I think Scratch was probably usable at that time, til maybe fourth grade,    |
but that would also be pushing it a little, but fifth was just sort of right.    | developmental_fit
```

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In conclusion,

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In conclusion,

- Should you be using this?

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In conclusion,

- Should you be using this?
  - Nah.

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In conclusion,

- Should you be using this?
  - Nah.
  - But there are legitimate strengths

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In conclusion,

- Should you be using this?
  - Nah.
  - But there are legitimate strengths
  - And maybe aesthetic / organizational appeal

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