

PS1

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1 Markdown

1.1

1.1.1 Create a bullet list of (at least 3) colors

- Red 
- Green 
- Blue 

1.1.2 Create a numbered list of (at least 3) cities

1. Seattle 
2. Jakarta 
3. Malang 

1.1.3 Create a pre-formatted text (at least 3 lines)

```
This is line 1  
This is line 2  
And here's line 3
```

1.1.4 Sentence with bold and italic

This is a sentence with **bold** and also *italic* text mixed in.

1.1.5 Table with prices

Item	QFC	Safeway
Green onion	1.39	0.99
Chicken	4.32	4.69
Whole milk	3.49	3.19

1.1.6 Code block with ASCII art

```
\_/\_|  
( o.o ) meow  
> ^ <
```

1.1.7 A line with inline code

Inline code looks like this: `print("hello meow")`.

2 File system

2.1

2.1.1 Homework folder

My homework `.Rmd` file is saved in the folder: `PS1-problem-set-1`. Its parent folder is `Problem-Sets`.

2.2

2.2.1 Folder on Desktop

I made a folder on my Desktop called `info201_test_folder`. Inside, I dropped in:

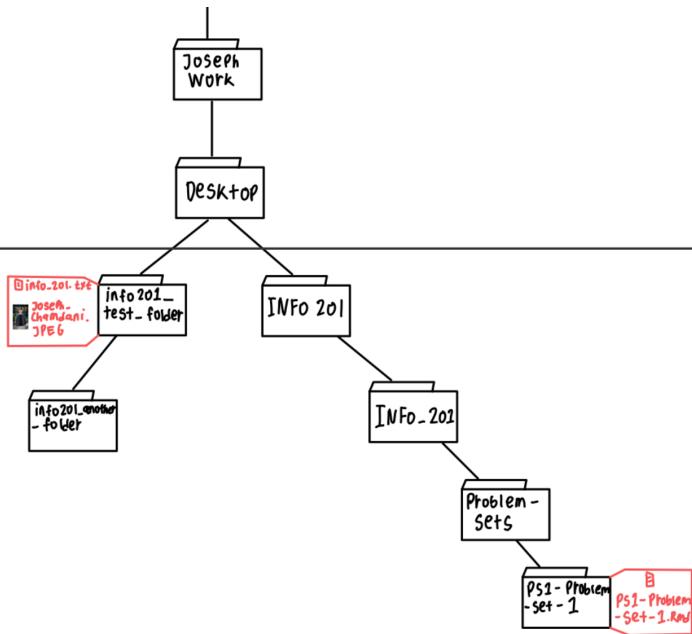
- an image file (`Joseph_Chamdani.JPG`)
- a non-image file (`info_201.txt`)
- another folder (`info201_another_folder`)

2.3

2.3.1 File system sketch

Here's my sketch showing how the folders connect.





2.4

2.4.1 Relative path of new folder

From my `.Rmd` file, the relative path to the Desktop folder is:

`../../../../info201_test_folder`

2.5

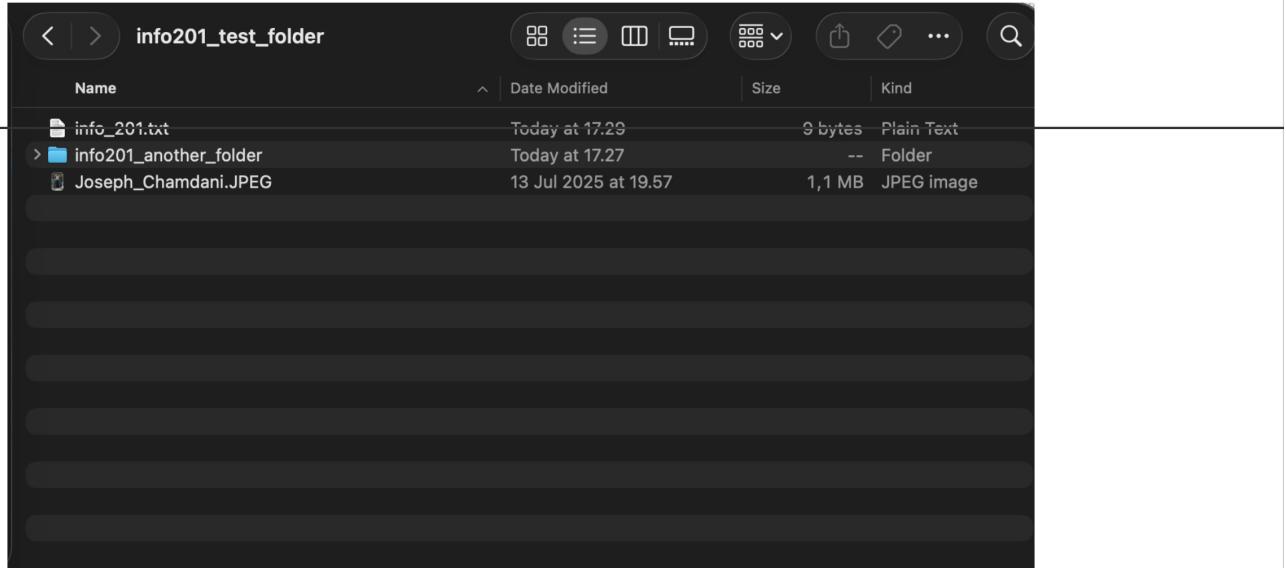
2.5.1 Screenshot of the new folder

I took a screenshot of the folder and saved it as `screenshot.png` in the same place as my `.Rmd`.

Relative path: `screenshot.png`

2.6

2.6.1 Screenshot in RMarkdown



2.7

2.7.1 Image in new folder (using relative path)

And here's me including the image directly from the Desktop folder:





*(Note: This uses a **relative path** that points outside my homework folder:
`../../../../info201_test_folder/Joseph_Chamdani.jpeg`.
It works on my computer, but may not display on another machine since they don't have this Desktop folder.

3 Absolute path

3.1

3.1.1 Homework folder absolute path

The absolute path to my homework folder is:

```
/Users/JosephWork/Desktop/INFO_201/INFO_201/Problem-Sets/PS1-problem-set-1
```

3.2

3.2.1 Absolute path of the image in test folder

The absolute path of the image I put in the test folder on my Desktop is:

```
/Users/JosephWork/Desktop/info201_test_folder/Joseph_Chamdani.jpeg
```

3.3

3.3.1 Include the image with absolute path

Here's how it looks when included using the absolute path:



(Note: This is the **absolute path** on my machine:
`/Users/JosephWork/Desktop/info201_test_folder/Joseph_Chamdani.jpeg`.
Absolute paths are machine-specific, so this will not show up on another computer.)

3.4

3.4.1 Which path is better?

I'd say relative paths are better for homework. That way if I move or share my project folder, the images will still load. Absolute paths only work on my own computer.

3.5

3.5.1 RStudio filename completion

In RStudio, you can start typing a filename inside quotes and hit Tab. It'll autocomplete with the files in your working directory and it's helpful so you don't mistype long file names.

4 Variables

4.1

4.1.1 My age

```
my_age <- 18  
print(paste("My age now is", my_age, "years old"))  
  
## [1] "My age now is 18 years old"
```

4.2

4.2.1 Seconds in a year

```
seconds_in_year <- 60 * 60 * 24 * 365  
print(paste("There are", seconds_in_year, "seconds in a year"))  
  
## [1] "There are 31536000 seconds in a year"
```

4.3

4.3.1 My age in seconds

```
age_in_seconds <- my_age * seconds_in_year  
print(paste("My age in seconds is", age_in_seconds, "seconds"))  
  
## [1] "My age in seconds is 567648000 seconds"
```

4.4

4.4.1 Typical human lifetime in seconds

So I'll assume that a "typical" lifetime of about 78 years.

```
lifetime_years <- 78  
lifetime_seconds <- lifetime_years * seconds_in_year  
print(paste("So a typical human lifetime is", lifetime_seconds, "seconds"))  
  
## [1] "So a typical human lifetime is 2459808000 seconds"
```

5 Syllabus

5.1

5.1.1 Total points from all problem sets (including PS0)

There are 7 assignments (problem sets) worth 49% of the grade, so if I did them all perfectly, that's **49 points total**.

5.2

5.2.1 Points from all labs combined

There are 7 labs, each worth 1 point → **7 points total**.

5.3

5.3.1 Deadline for Final Project Proposal

The Final Project Proposal due date is on **November 5 at 11:59 pm** from what I saw on the lab due date.

5.4

5.4.1 Quizzes true/false

Yep True, The course has 2 quizzes, together worth 20% of the final grade.

5.5

5.5.1 Late days for Problem Sets

Each student has **3 late days** for problem sets. After that, late submissions lose 0.5% per hour.

5.6

5.6.1 Late days for labs

Labs have **no late days** you either do them on time or lose the point.

5.7

5.7.1 Deadline for regrade requests

Regrade requests must be made **within one week after grades are released**, but no later than **Dec 9th**.

5.8

5.8.1 Caption of the first figure in Section “6.3.1 Vectorized Operators”

The first figure's caption is: “**Adding two vectors, element-wise.**”

5.9

5.9.1 AI usage true/false

Yep True I need to always cite AI usage, and I can't just copy-paste AI solutions.

5.10

5.10.1 Discord

Not required, but yep, I already joined the INFO 201 Discord: <https://discord.gg/KxGT2nXT9J>

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PS1

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