Lecture 7: pandas with pop music, shell, Markdown

> LING 1340/2340: Data Science for Linguists Na-Rae Han

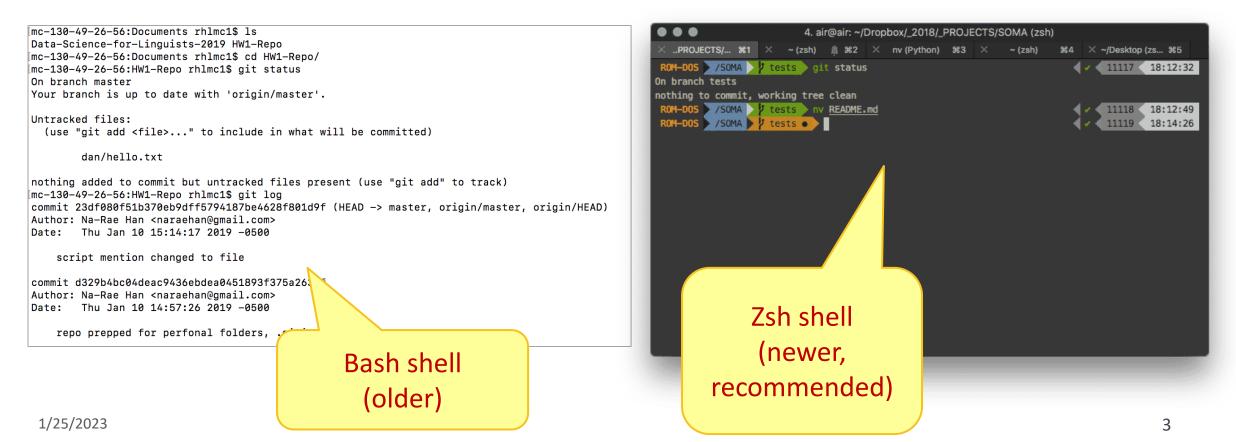
Objectives

► Tools

- Command-line operations, shell (bash, zsh)
- Markdown
- pandas library hands-on practice, continued

Your shell environment: Bash vs. Zsh

- Windows folks are using Git-bash, which has nice colorized Git output
- Mac: new default shell is zsh, older versions will have bash
 - In your terminal, execute echo \$0



Launching apps via command line

- If which XXX works, you can readily launch XXX from shell: Narae@T480s MINGW64 ~/Documents/Data_Science \$ which notepad /usr/bin/notepad narae@T480s MINGW64 ~/Documents/Data_Science \$ notepad newfile.txt
 Your command-line environment knows where notepad is installed
 Notepad launches in a new window, with a new file
- If not, you need additional configuration
 - Configure your bash or zsh, add app alias
 - In your home directory, open .bash_profile in a text editor (nano works)
 - □ Mac users (zsh): open .zprofile instead
 - Find the full path for your text editor, chrome, or any app you want
 - Add this line: alias chrome="/path/to/file"
 - Save file. Back in command line, execute: source .bash_profile
 - You can also launch **OS-default app** for a given file extension (sorta like double-clicking)
 - Mac uses the built-in open command (explanation here)
 - Windows uses start: start xxx.txt will launch your default text editor.

No space around =

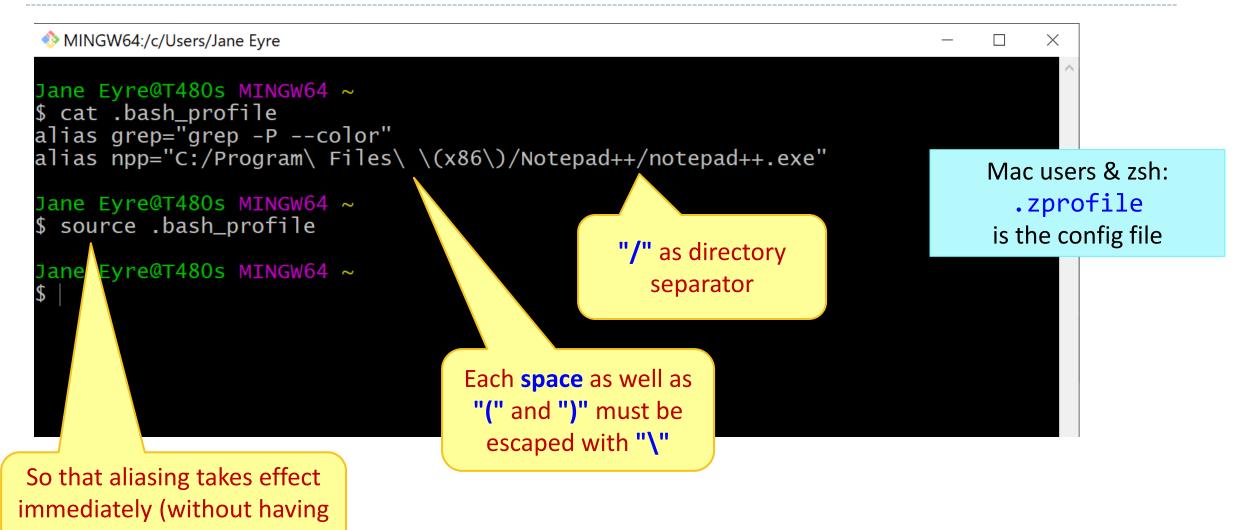
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But! Your shell could become

unusable until you close app. To

avoid, put & at the end.

Adding app aliases to your Bash shell

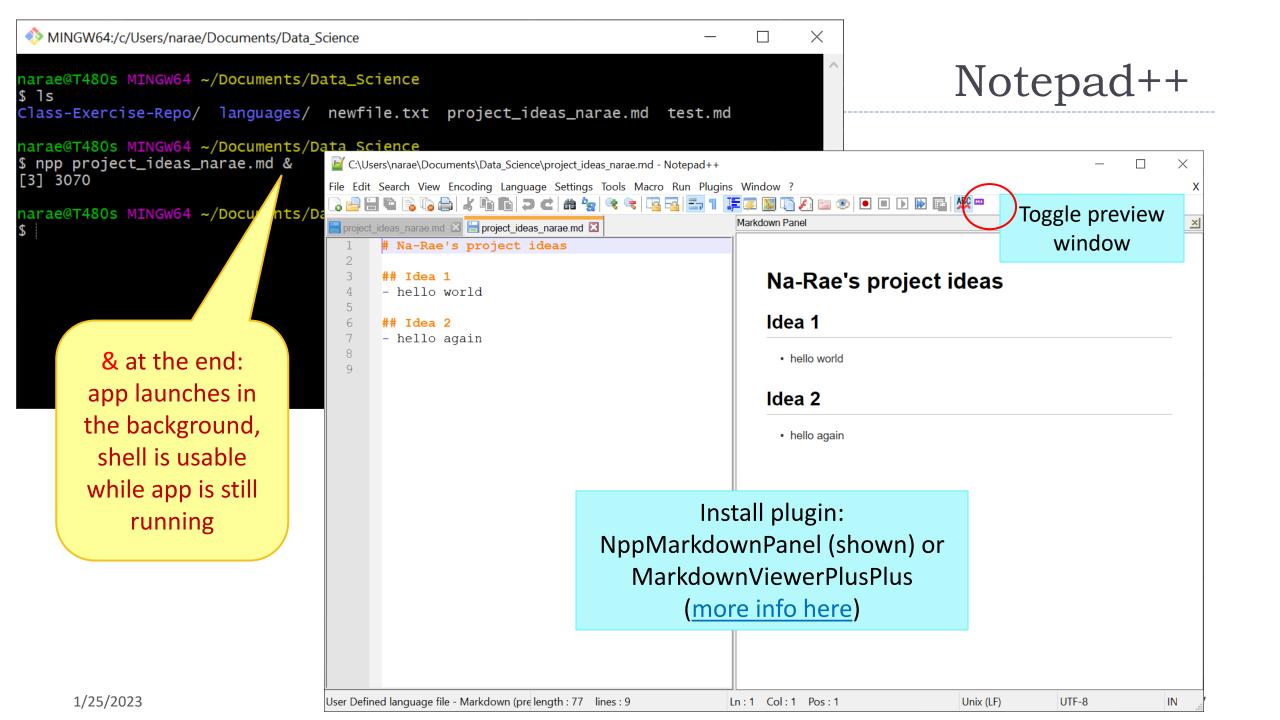


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to log back in)

Markdown files (.md)

- Atom editor has a built-in markdown viewer window
 - Edit windows and Markdown window side-by-side!
 - RIP Atom...
- VS Code (Atom's successor) also has a built-in Markdown viewer!
 - https://code.visualstudio.com/docs/languages/markdown
- If using other text editor:
 - **Notepad++**: install a md viewer plugin
 - Chrome: install "Markdown viewer" extension (link on Learning Resources page)
 - Any other workflow you have?



← → C 🖈 Markdown Viewer chrome-extension://ckkdlimhmcjn	nikdlpkmbgfkaikojcbjk/content/options.html	☆	m 🕒 i	
Markdown Viewer			HELP Chrome browser w/ Markdown Viewer extension	
Allowed Origins	ousercontent.com	ACCESS TO FI	LE:// URLS	
Allow this extension to read and change all your dat visit: Learn more about site access	a on websites you On all sites	•	Configuring Markdown Viewer extension to	
Allow in incognito Warning: Google Chrome cannot prevent extensions from recording your browsing history. To disable this extension in incognito mode, unselect this option.		allow file URLs (in addition to the usual https:// etc.)		
Allow access to file URLs			File can't be opened via command line, however. Open in File Explorer.	

pandas practice

- ▶ 50 Years of Pop Music
 - https://www.kaylinpavlik.com/50-years-of-pop-music/
 - You tried out the CSV file 'billboard_lyrics_1964-2015.csv'

- In Class-Exercise-Repo, activity2/ folder:
 - The CSV data file is already in the directory.
 - You will find pop_music_BLANK.ipynb
 - Copy it as pop_music_YOURNAME.ipynb and work on it.
 - ← You are welcome to commit your version.

cp file1 file2 makes a copy of file1 as file2.



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Wrapping up

Coming up: Project ideas

- Due Friday.
- Not sure? Come chat with me and the TAs

Keep studying pandas!