Name: mcp-391-cswg-workshop-making-with-make-and-makefiles

Title: making with make and makefiles

Status: Draft -- anyone can edit.

See the MCP index to create or find documents, or mcp-0-readme for an overview.

The headers above are machine-readable; please preserve format.

Text checkins (10 mins)

Steve

- Home!
- Still recovering from trip
- o made more progress on <u>grid-cli</u> design though -- now working on layer layout
- o gearing up to complete pilot's license
 - I will be missing our group meeting on 01 Oct for flight physical renewal
- JJ
- Found a bug in the Go pkgsite documentation
- Tonight, cleaning off the roof!
- Preparing for kiddo to move out
- Planning on visiting ABQ...aiming for 1st week in Oct
- Learning about biofilm. :\ Whether I want to or not

Rebecca

- Intereting article about maker events I read this week https://www.pcma.org/bringing-maker-movement-events/
- Makerspace move to new building continues, will be moved out of old building by the end of the month, might take a couple weeks to get up to speed in new building
 - We found out that some of the issues around the occupancy permit were not as complicated/involved as we thought, because the building is no longer a k-12 school
- Back from trip to Pacific Northwest
 - Boeing museum in Everett
 - Stayed at Tacoma Elks lodge which has been refurbished into a hotel
 - Glass museum in Tacoma, had some interesting details on studio glass which reminds me of our little group here in some ways
 - Took car ferry to Vashon Island and looked at water sights
 - Portland downtown and visiting friends and relatives

Donaldo

- Completing tool trainings at West Houston Institute, their makerspace pretty well organized, taking notes on potential tips & tricks
- Schedule getting busy, classes & events, but feels good
 - classes: electronics fab, embroidery machine, laser cutter, woodshop, 3d printing, desktop CNC, metal shop
- Houston finally cooling down, looking to set up garden
- Angela
 - Learned how to crochet last night
 - Also made some stickers out of some drawings i made

Making with 'make' and Makefiles (70 mins)

- Presentation (10-20 mins):
 - o https://github.com/ciwg/workshop-2024-09-10-make
 - o (btw slides tool today is https://github.com/maaslalani/slides)
 - slides from markdown
- Q&A/Feedback (30 mins):
 - O How do you use 'make'?
 - So it looks fpr a makefile in the current directory if there are no arguments for it?
 - What is a Makefile Rule?
 - ?not sure if the rules only go in the file or can also be arguments on the command line?
 - @ symbols
 - Interesting hearing about how they used to be called stanzas
 - Example Makefile
 - Is it required to indent?
 - Yes, it's how stanzas are separated
 - Must be tabs, not spaces
 - Example Makefile with a prerequisite
 - Running a makefile without prerequisites will run the first stanza
 - Example Makefile with a filename as a target
 - Example Makefile with real-world example
 - (Added mid presentation)
 - History of make to compile up-to-date C code
 - What does up-to-date really mean?
 - Timestamp of files
 - Not taking advantage of hash, contents are not compared
 - Example Makefile with a chain of prerequisites
 - make -n to see what will happen
 - It ALSO shows you comments, very helpful for keeping track / troubleshooting

- o Example Makefile with a variable
- Example Makefile with an external variable
- O What is 'make', really?

Plan next workshop (10 mins)

• go to workshop proposals (mcp-369), follow the instructions there, replace this bullet point with the link to the new doc