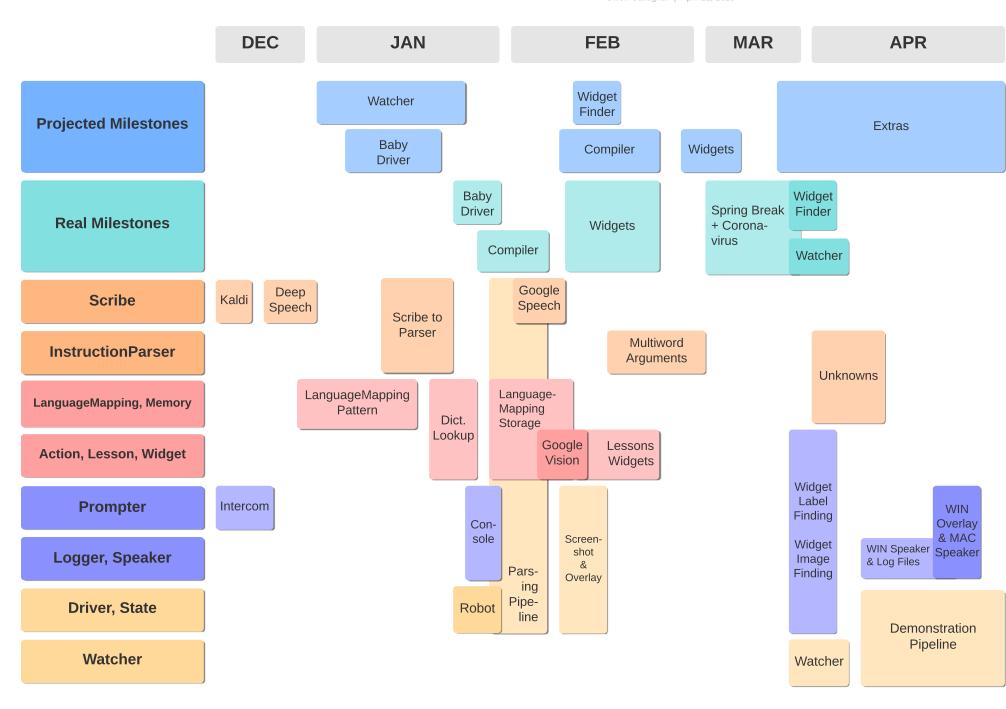
Terry Timeline (Retrospective)

Owen Gallagher | April 12, 2020



Kaldi - created first scribe transcript with Kaldi Aspire

Intercom - created the prompter intercom window with the glasses icon, that registers mouse clicks

DeepSpeech - created scribe transcript with DeepSpeech

LanguageMapping.Pattern - the pattern class stores a graph representation of ways an instruction can be said, and can convert from expression representation (ex: |hi,[whats_up],) ?world))

Scribe to Parser - handles the connection between two asynchronous classes to pass the transcript to the instruction parser

Dict. Lookup - created a dictionary for quick reference to known language mappings in memory, accounting for edit distance

Robot - first primitive actions with driver: point, type, click, shut-down; first driver demonstration with primitive action sequence

Console - added console window to prompter, connected to logger

Parsing Pipeline - the pipeline fully connects the intercom, to the scribe, to the instruction parser, to memory, to the driver for execution

Google Speech - improved transcription accuracy by switching to Google Speech API **LanguageMapping Storage** - actions and dictionary can now be read and written to files in src/res/memory/

Google Vision - Google Vision API added for optical character recognition **Screenshot & Overlay** - driver can now take a screen capture hiding prompter windows; prompter can create an invisible overlay over GUI

Lessons - first lesson for widget definition created

Widgets - widgets with labels can be created via lesson and referenced in instructions **Multiword Arguments** - struggles with multi-word arguments in instruction expressions, with eventual success

Spring Break + Coronavirus - about a 1-month pause for Spring break, the break extension, and later cancellation of campus classes at JC

Widget Label Finding - uses Google Vision to find the widget label in a screenshot, then can direct the driver to move the mouse to that location

Widget Image Finding - defines widget appearance and can search for a widget by appearance to move the mouse to that location

Watcher - created watcher to read system keyboard and mouse events with JNativeHook. I have been struggling to get it to work consistently even now Unknowns - Terry partially recognizes unknown actions and widgets to be learned WIN Speaker & Log Files - added speaker to windows using voice.exe and enabled log file creation

WIN Overlay & MAC Speaker - fixed windows overlay and added mac speaker **Demonstration Pipeline** - drafted the workflow for demonstration learning, but without a functioning watcher

Baby Driver - functioning driver demonstration with primitive actions
Widget Finder - theoretically find widgets on screen by label and appearance
Compiler - instruction parser to driver pipeline complete
Widgets (milestone) - widgets can be learned, referenced, found, saved, and loaded
Watcher (milestone) - create watcher connected ot peripheral input events

Extras - everything I hoped to do but did not reach: functioning demonstration learning, instruction learning, conditional and argument actions, multipattern actions