

Automation for fun and profits

- Why do we have so many languages?
 - Memory is so precious - Embedded systems (C, C++,)
 - I can afford more RAM - Webservices, Data pipelines (Java, Scala)
 - I want to get stuff done - scripting (Perl, Python, Ruby)
 - Fun -
(https://esolangs.org/wiki/Hello_world_program_in_esoteric_languages)
- Why do we have so many problems?
 - Tired of C and an impatient programmer to parse logs - Perl
 - A bored programmer on a Christmas weekend - Python
 - Tired with both of the above - Ruby
 - Ruby is so slow but we love the syntax - Crystal, Elixir, etc

- Quotes

- The greatest single programming language ever designed. - **Alan Kay**
- The most powerful programming language is Lisp. If you don't know Lisp you don't appreciate what a powerful language is. Once you learn Lisp you will see what is missing in most other languages. - **Richard Stallman**
- Lisp has jokingly been called "the most intelligent way to misuse a computer". I think that description is a great compliment because it transmits the full flavor of liberation - **Edsger W. Dijkstra**
- Lisp is worth learning for the profound enlightenment experience you will have when you finally get it; that experience will make you a better programmer for the rest of your days, even if you never actually use Lisp itself a lot.- **Eric Raymond**

- Clojure
 - Lisp on JVM
 - Immutable by default
 - Laziness
 - Dynamic nature and interactivity

- Redbus bot
 - Bus tickets : A pain to book in the long weekends
 - Ctrl + F5 every 5 minutes
 - Spots a JSON request
 - Lets scrap!
 - Python + requests + telegram library

- Rewrite in Clojure
 - Learning experience
 - Less code
 - More performance (5x speed)
 - Simple cross platform deployment with a single jar

- Cool things about Clojure
 - map, filters, reduce and lambdas
 - REPL
 - Hot code reloading without service being down
 - The entire language is available all the time

- Pain points about Clojure
 - Knock knock java!
 - Error messages
 - Editor and tooling
 - Not useful for short scripts

- Automation
 - Less boredom
 - Refines skills and gives more end to end experience and responsibility
 - Useful to others and FOSS
 - More fun and wizardry

- Obligatory xkcd

HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE?
(ACROSS FIVE YEARS)

		HOW OFTEN YOU DO THE TASK					
		50/DAY	5/DAY	DAILY	WEEKLY	MONTHLY	YEARLY
HOW MUCH TIME YOU SHAVE OFF	1 SECOND	1 DAY	2 HOURS	30 MINUTES	4 MINUTES	1 MINUTE	5 SECONDS
	5 SECONDS	5 DAYS	12 HOURS	2 HOURS	21 MINUTES	5 MINUTES	25 SECONDS
	30 SECONDS	4 WEEKS	3 DAYS	12 HOURS	2 HOURS	30 MINUTES	2 MINUTES
	1 MINUTE	8 WEEKS	6 DAYS	1 DAY	4 HOURS	1 HOUR	5 MINUTES
	5 MINUTES	9 MONTHS	4 WEEKS	6 DAYS	21 HOURS	5 HOURS	25 MINUTES
	30 MINUTES		6 MONTHS	5 WEEKS	5 DAYS	1 DAY	2 HOURS
	1 HOUR		10 MONTHS	2 MONTHS	10 DAYS	2 DAYS	5 HOURS
	6 HOURS				2 MONTHS	2 WEEKS	1 DAY
	1 DAY					8 WEEKS	5 DAYS

Questions

(map answer (filter questions? session))

Thanks

- <https://yhatt.github.io/marp/> (Slides in Markdown)