

Clojure and Unix

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- ▶ my code was full of `for` loops and `if` statements

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- ▶ I started thinking of data flowing through code

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- ▶ I work with lists of maps using `filter` and `map`
- ▶ I use Prismatic's Graph library to build a dependency graphs of tasks

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- ▶ for a lot of stuff, I just can't use Clojure

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- ▶ I've written enough crap using the “shiny new thing”
- ▶ I don't have time to reinvent the wheel

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- ▶ I only used the shell for one-liners

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- ▶ **things were great!**

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Strangely Similar

Clojure	Unix
lists of maps	tables (tab separated lines)
-> ->>	pipes, tee
filter	find, grep
map, apply	call, xargs
conditions	test
strings, regex	sed, awk, tr
Prismatic Graph	make
pmap	parallel

List Manipulation

Clojure	Unix
conj, concat	cat
take, drop	head, tail
sort	sort
count	wc
distinct	uniq
frequencies	uniq -c
range	seq
shuffle	shuf

Other Stuff

Clojure	Unix
slurp	curl
assoc, dissoc	cut, join
println	echo
str, format	paste, printf

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- ▶ servers: fine, use Clojure

Upshot

Clojure and Unix tools are both focused on processing sequences of lightweight data structures through composable pipelines.

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- ▶ Unix tools are usually lighter and faster, and easier to integrate with other tools
- ▶ use Clojure for the hard parts!