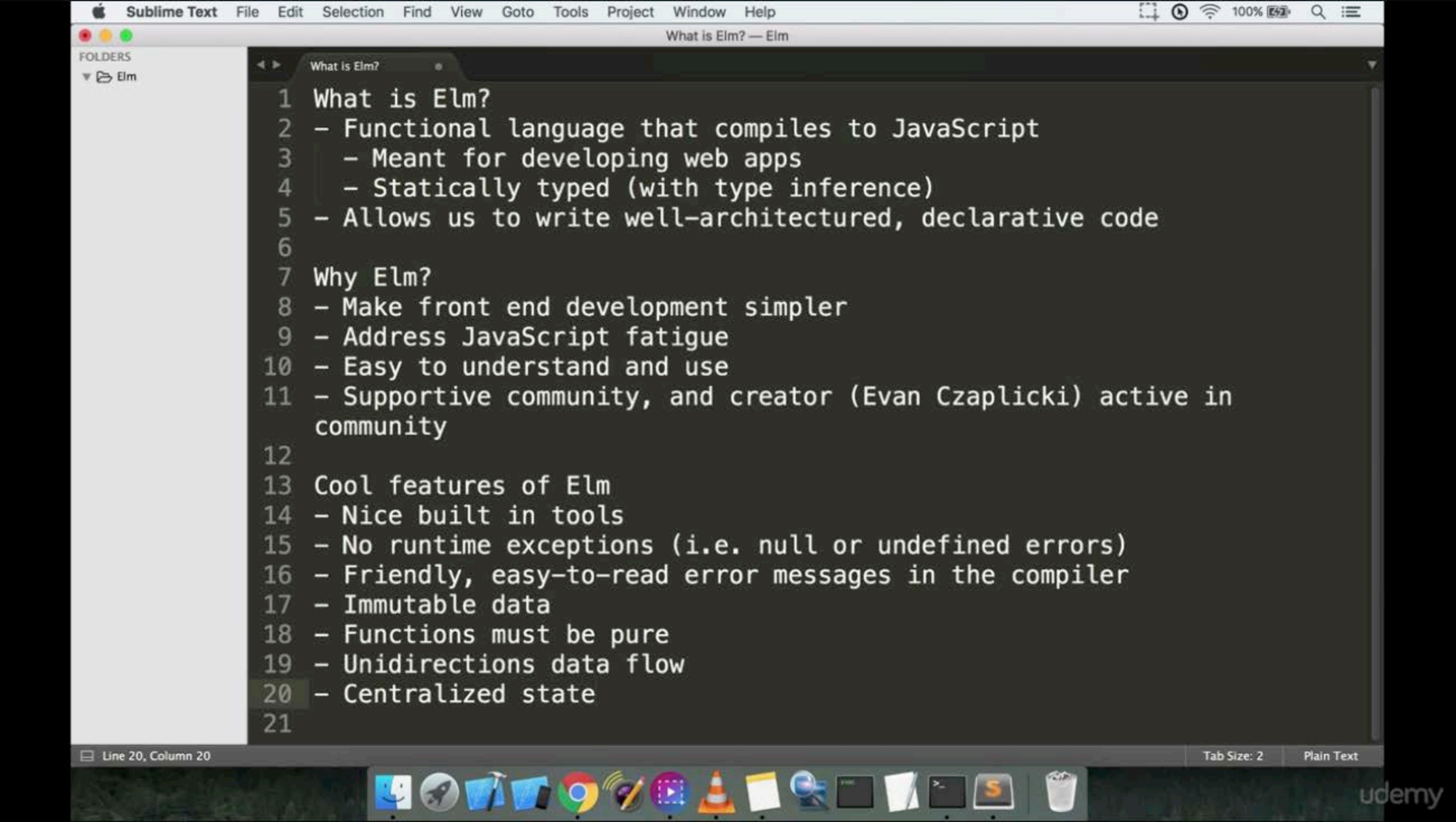
INTRO TO ELM

PREFACE


Sublime Text File Edit Selection Find View Goto Tools Project Window Help
What is Elm? — Elm
FOLDERS
Elm
What is Elm?
What is Elm?
- Functional language that compiles to JavaScript
  - Meant for developing web apps
  - Statically typed (with type inference)
- Allows us to write well-architectured, declarative code
Why Elm?
- Make front end development simpler
- Address JavaScript fatigue
- Easy to understand and use
- Supportive community, and creator (Evan Czaplicki) active in community
Cool features of Elm
- Nice built in tools
- No runtime exceptions (i.e. null or undefined errors)
- Friendly, easy-to-read error messages in the compiler
- Immutable data
- Functions must be pure
- Unidirections data flow
- Centralized state
Line 20, Column 20
Tab Size: 2
Plain Text
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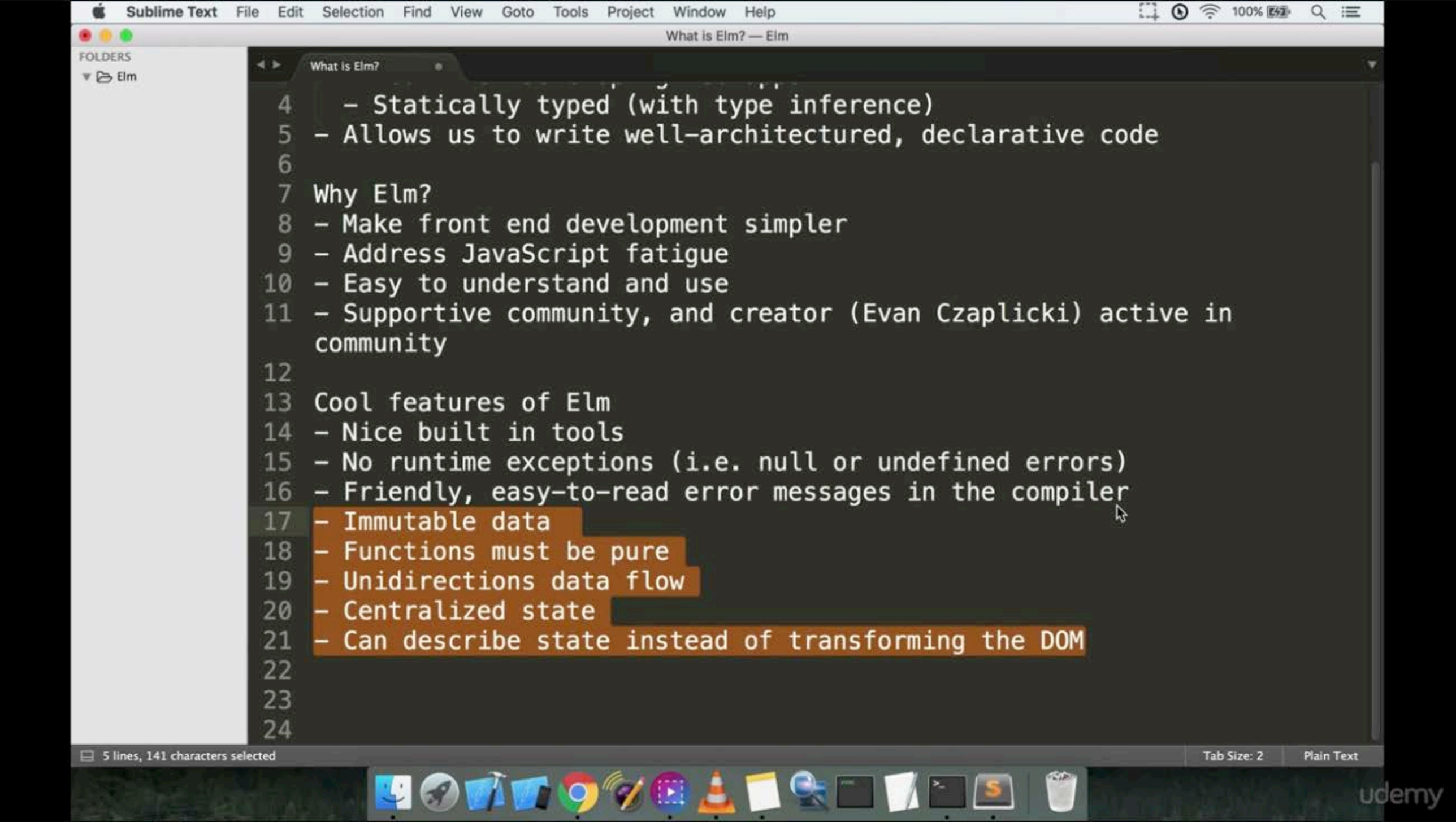
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5 lines, 141 characters selected
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Plain Text
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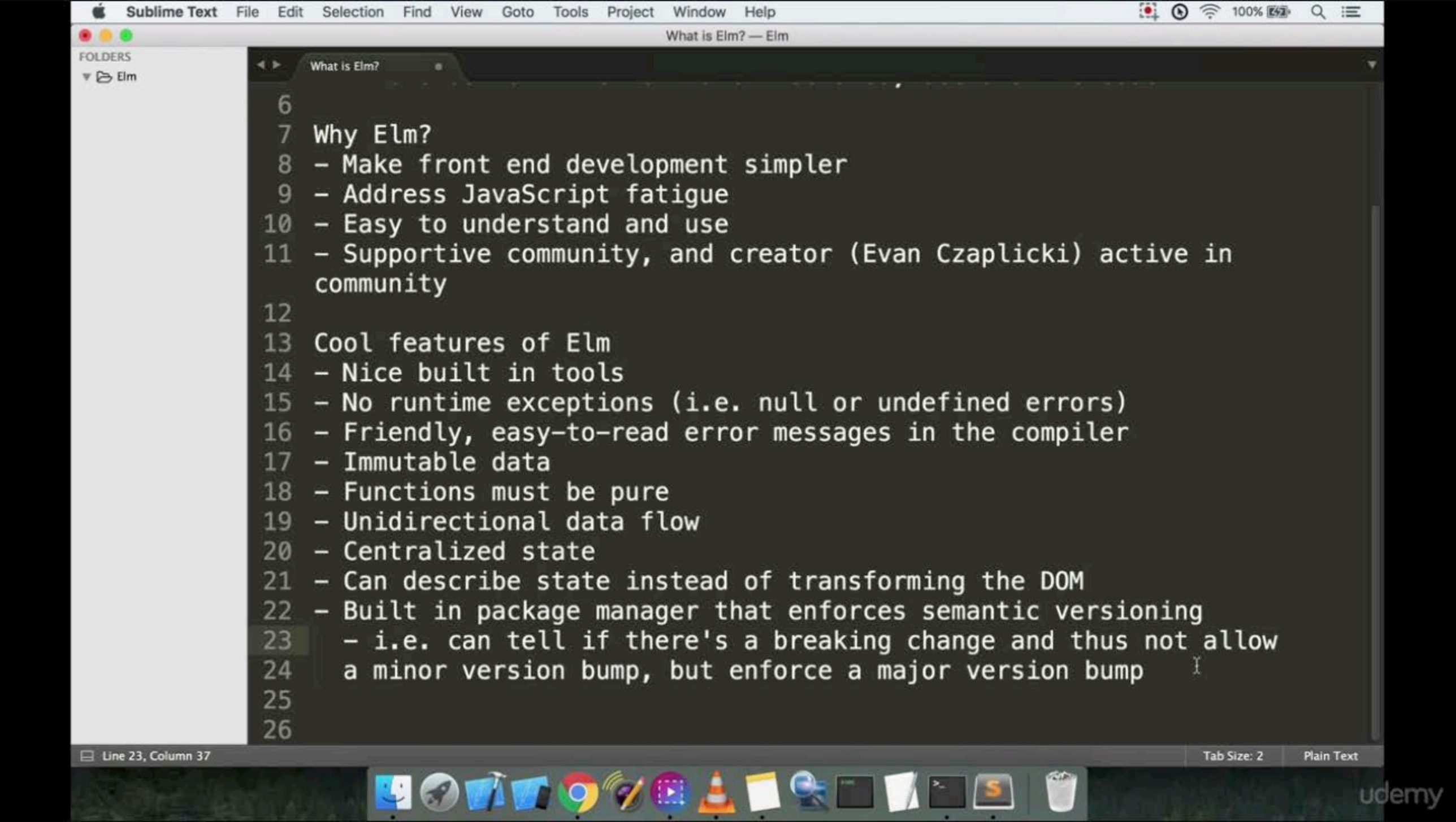
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- Built in package manager that enforces semantic versioning
- i.e. can tell if there's a breaking change and thus not allow a minor version bump, but enforce a major version bump
Line 23, Column 37
Tab Size: 2
Plain Text
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INTRO TO ELM

INSTALLING ELM

Install · An Introduction to Elm

Secure https://guide.elm-lang.org/install.html

> **Note:** If you do not want to install yet, you can follow along in this guide with the online editor and the online REPL.

Install

- Mac — installer
- Windows — installer
- Anywhere — npm installer or build from source

After installing through any of those routes, you will have the following command line tools:

- `elm-repl` — play with Elm expressions
- `elm-reactor` — get a project going quickly
- `elm-make` — compile Elm code directly
- `elm-package` — download packages

We will go over how they all work in more detail right after we get your editor set up!

> **Troubleshooting:** The fastest way to learn *anything* is to talk with other people in the Elm community. We are friendly and happy to help! So if you get stuck during installation or encounter something weird, visit the Elm Slack and ask about it. In fact, if you run into something confusing at any point while learning or using Elm, come ask us about it. You can save yourself hours. Just do it!

Chrome File Edit View History Bookmarks People Window Help

Install · An Introduction to Elm | elm

NPM, Inc. [US] https://www.npmjs.com/package/elm

next() Packaged Middleware

npm Enterprise features pricing documentation support

npm

find packages

sign up or log in

elm

public

Install the Elm Platform via npm.

Installing

Run this to get the binaries:

```
$ npm install -g elm
```

Installing behind a proxy server

If you are behind a proxy server, set the environment variable "HTTPS_PROXY".

```
$ export HTTPS_PROXY=$YourProxyServer$
$ npm install -g elm
```

Use this within your firewall

Combine open-source packages with your private code and publish to a private registry behind the firewall. npm ♥ enterprise developers

npm install -g elm

how? learn more

rtfeldman published 5 months ago

0.18.0 is the latest of 25 releases

github.com/elm-lang/elm-platform

BSD-3-Clause

Collaborators list

the online REPL.

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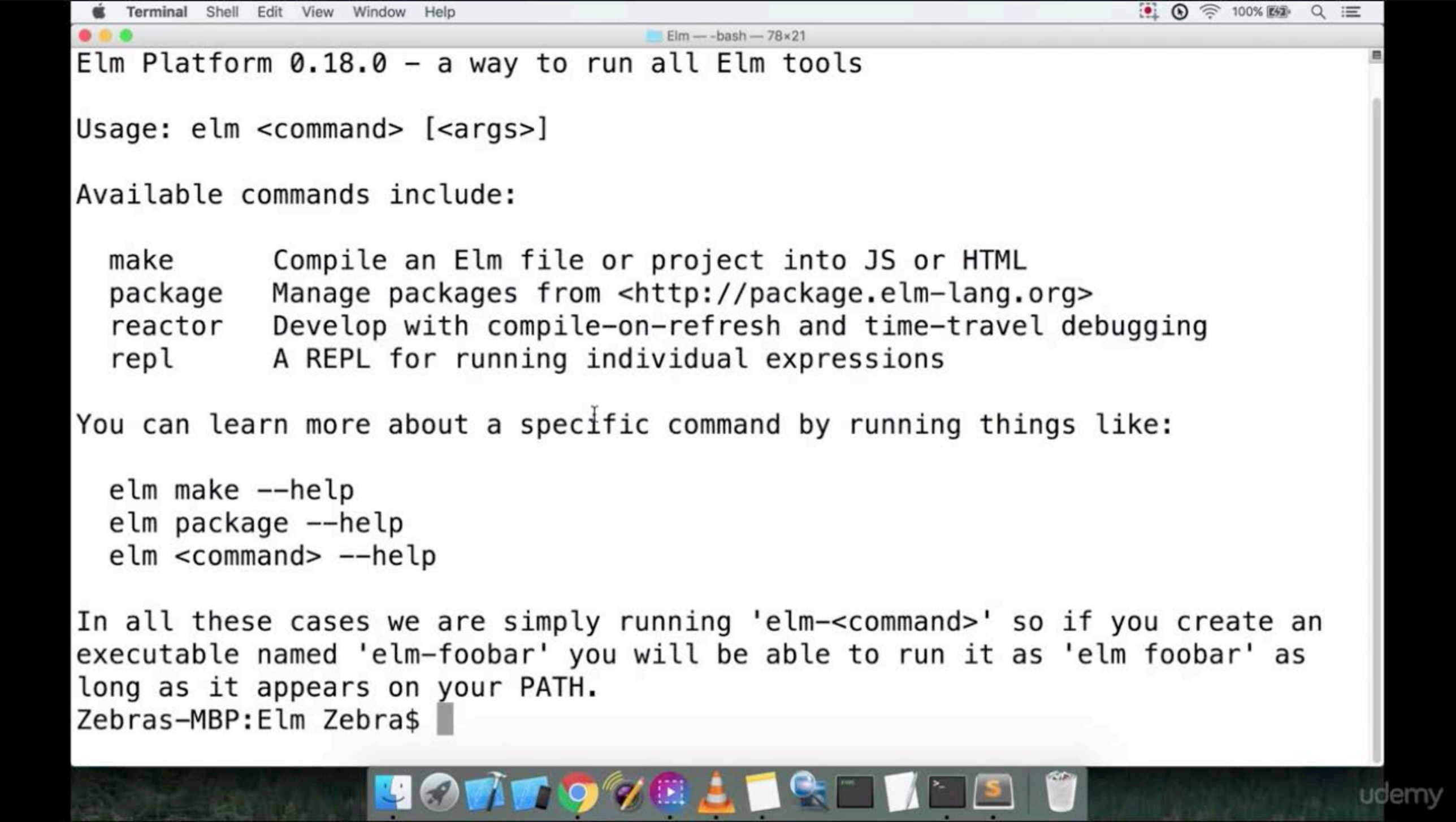
Configure Your Editor


Terminal Shell Edit View Window Help
Elm — -bash — 78×21
Elm Platform 0.18.0 - a way to run all Elm tools
Usage: elm <command> [<args>]
Available commands include:
make Compile an Elm file or project into JS or HTML
package Manage packages from <http://package.elm-lang.org>
reactor Develop with compile-on-refresh and time-travel debugging
repl A REPL for running individual expressions
You can learn more about a specific command by running things like:
elm make --help
elm package --help
elm <command> --help
In all these cases we are simply running 'elm-<command>' so if you create an executable named 'elm-foobar' you will be able to run it as 'elm foobar' as long as it appears on your PATH.
Zebras-MBP:Elm Zebra$

any point while learning or using Elm, come ask us about it. You can save yourself hours. Just do it!

Configure Your Editor

Using Elm is way nicer when you have a code editor to help you out. There are Elm plugins for at least the following editors:

- Atom
- Brackets
- Emacs
- IntelliJ
- Light Table
- Sublime Text
- Vim
- VS Code

If you do not have an editor at all, Sublime Text is a great one to get started with!

You may also want to try out elm-format which makes your code pretty!

The Command Line Tools

So we installed Elm, and it gave us `elm-repl`, `elm-reactor`, `elm-make`, and `elm-package`. But what do they all do exactly?

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elm-repl

`elm-repl` lets you play with simple Elm expressions.

```
$ elm-repl
---- elm-repl 0.18.0 -----------------------------------------------------
```

Chrome File Edit View History Bookmarks People Window Help

Install · An Introduction to Elm | elm | avh4/elm-format: elm-format

GitHub, Inc. [US] https://github.com/avh4/elm-format

This repository Search Pull requests Issues Gist

avh4 / elm-format

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Code Issues 93 Pull requests 5 Projects 0 Wiki Pulse Graphs

elm-format formats Elm source code according to a standard set of rules based on the official Elm Style Guide

elm formatter code-style

998 commits 7 branches 13 releases 29 contributors BSD-3-Clause

Branch: master New pull request Create new file Upload files Find file Clone or download

avh4 Add CommonMark test suite Latest commit afbde0c 3 days ago

ci	Add Concourse CI scripts for windows and linux	a year ago
img	Update JetBrains setup screenshot to reflect new layout	5 days ago
markdown	Remove unused files from markdown/	24 days ago
package	Merge pull request #341 from mattjbray/archlinux-pgp	15 days ago
parser	Extract Parse.Markdown	24 days ago
src-cli	Remove the elm-format-0.16 executable	a month ago
src	HTML blocks in markdown should be followed by a blank line	23 days ago

Connecting...

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> `elm-format` is still in alpha. If you run into any problems, please report them.
>
> **The format produced by elm-format may change significantly before the 1.0.0 release.** If this will cause problems for you, please refrain from using elm-format during the alpha- and beta-test periods.

You will need to download the version appropriate for your OS, unzip it, and place `elm-format` or `elm-format.exe` (windows) on your `PATH`. Simpler installation options will be available once there is a stable release of elm-format.

If you need to verify the downloads, see the releases page for the PGP signatures and keybase.io/avh4 for the PGP keys.

For Elm 0.18

(To upgrade your Elm 0.17 project to Elm 0.18, see the Elm 0.18 upgrade guide.)

- Mac: download
- Linux: download
- Windows: download

For Elm 0.17

- Mac: download
- Linux: download
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Editor integration


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INTRO TO ELM

ELM FORMAT IN PATH

Installation version 0.6.1-alpha

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- Mac: download
- Linux: download
- Windows: download

For Elm 0.17

- Mac: download
- Linux: download
- Windows: download

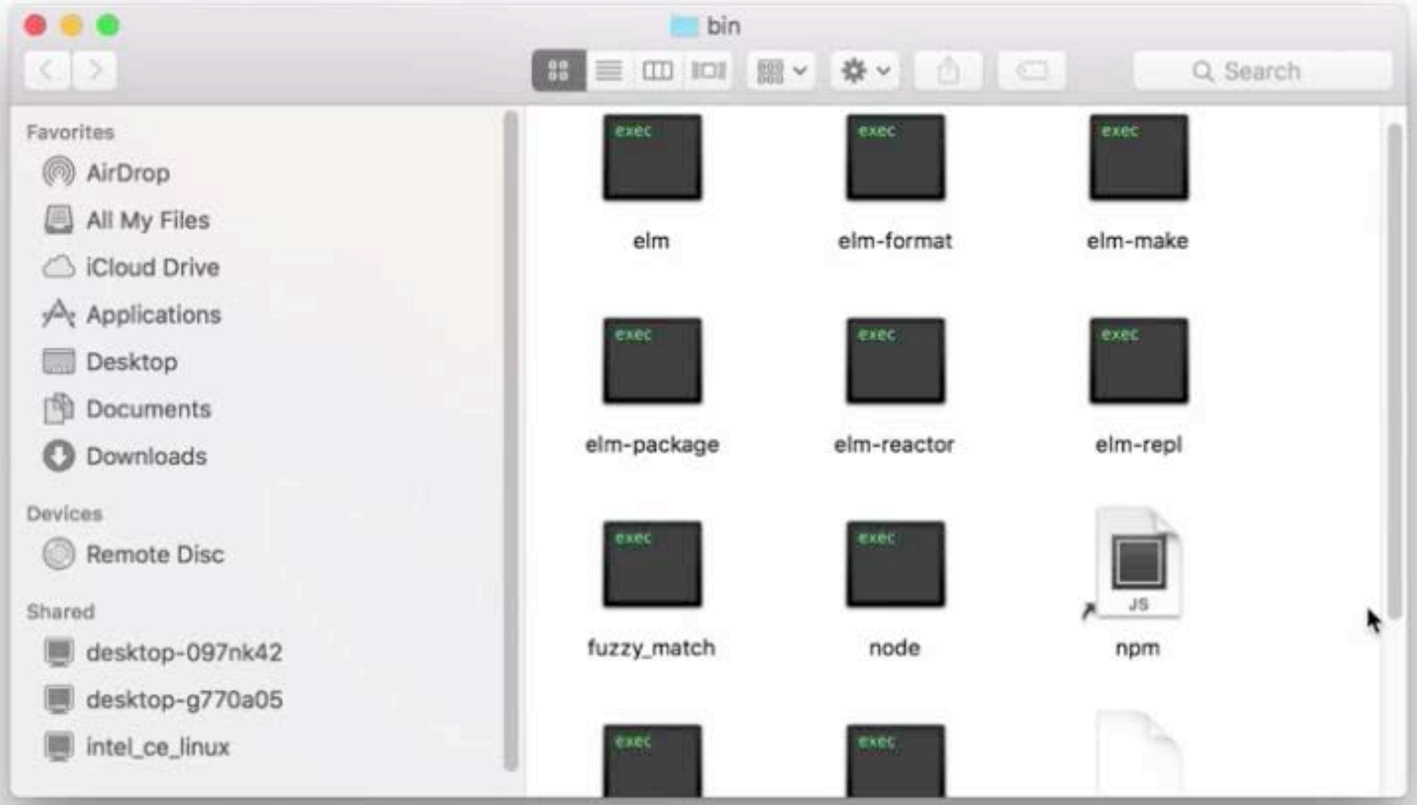
Editor integration

Finder File Edit View Go Window Help

100%

Elm — -bash — 78×21

```
Zebras-MBP:Elm Zebra$ which elm
/usr/local/bin/elm
Zebras-MBP:Elm Zebra$ open /usr/local/bin
Zebras-MBP:Elm Zebra$
```



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```
Available options:
  -h,--help                Show this help text
  --output FILE            Write output to FILE instead of overwriting the giv
en
                           source file.
  --yes                    Reply 'yes' to all automated prompts.
  --validate               Check if files are formatted without changing them.
  --stdin                  Read from stdin, output to stdout.
  --elm-version VERSION    The Elm version of the source files being formatted
.
                           Valid values: 0.16, 0.17, 0.18. Default: 0.18
  --upgrade                Upgrade older Elm files to Elm 0.18 syntax

Examples:
  elm-format Main.elm                        # formats Main.elm
  elm-format Main.elm --output Main2.elm  # formats Main.elm as Main2.elm
  elm-format src/                            # format all *.elm files in the src
directory

Full guide to using elm-format at <https://github.com/avh4/elm-format>
Zebras-MBP:Elm Zebra$
```


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