ANGULAR

Angular, Bazel, CLI

Modern Web Meetup
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Keen Yee Liau
@liauky

Keen Yee Liau

Software Engineer

- Tooling team
- SSR, Language Service, Bazel + CLI

@liauky

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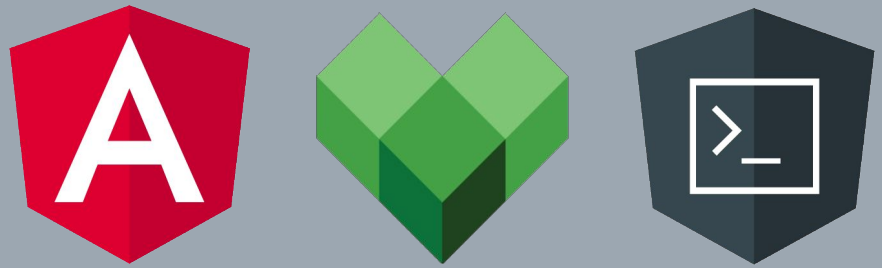


Angular Bazel CLI

Bazel

What

Why

How

Bazel

- Systematically builds and tests software
- Easily extensible via rules and macros (Starlark)
- Speed, correctness, and reproducibility
- Parallel execution is even faster with remote build
- Cache intermediate outputs
- Open source

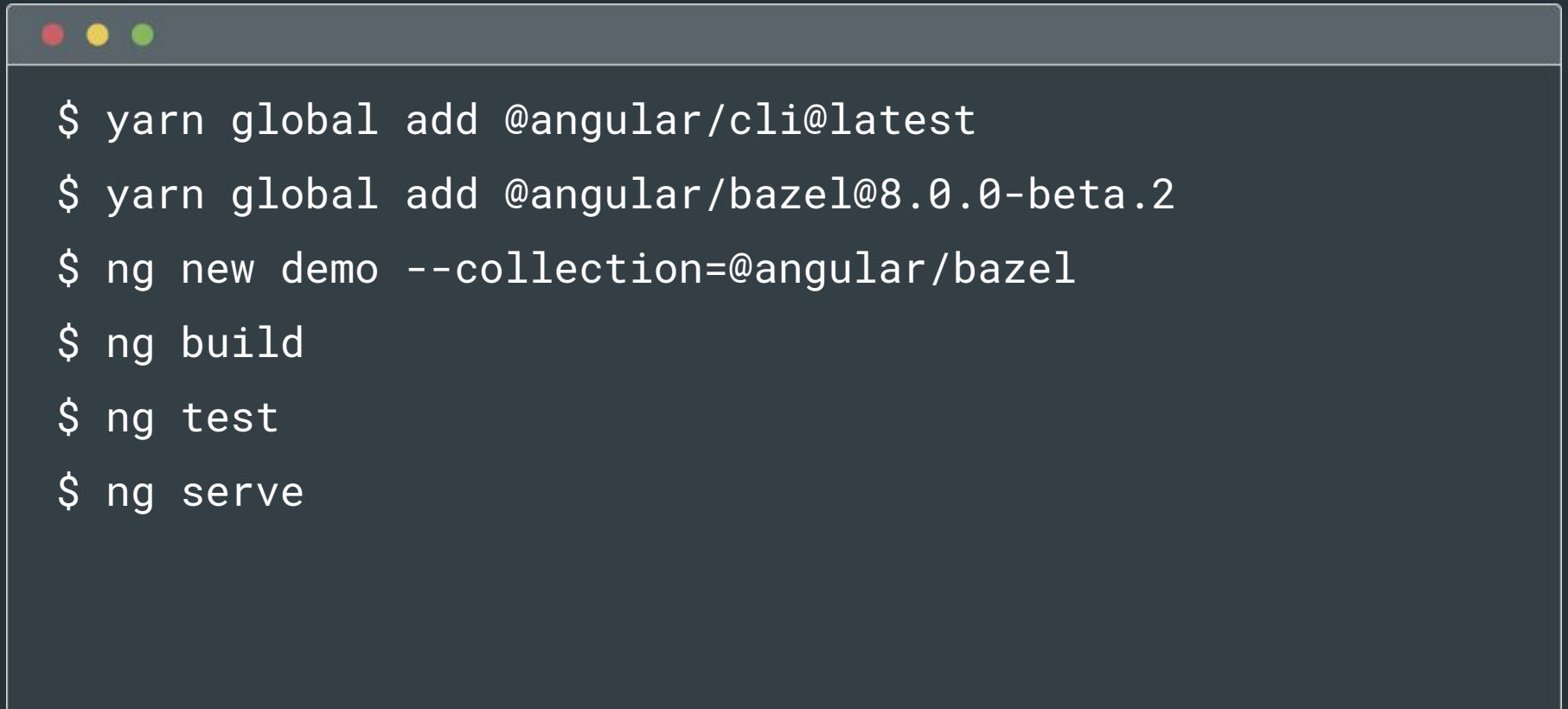
Why Angular + Bazel?

- Scalability
- True ABC: Angular Buildtools Convergence
- Much easier configuration with composable rules
- Automatic switchover for existing users

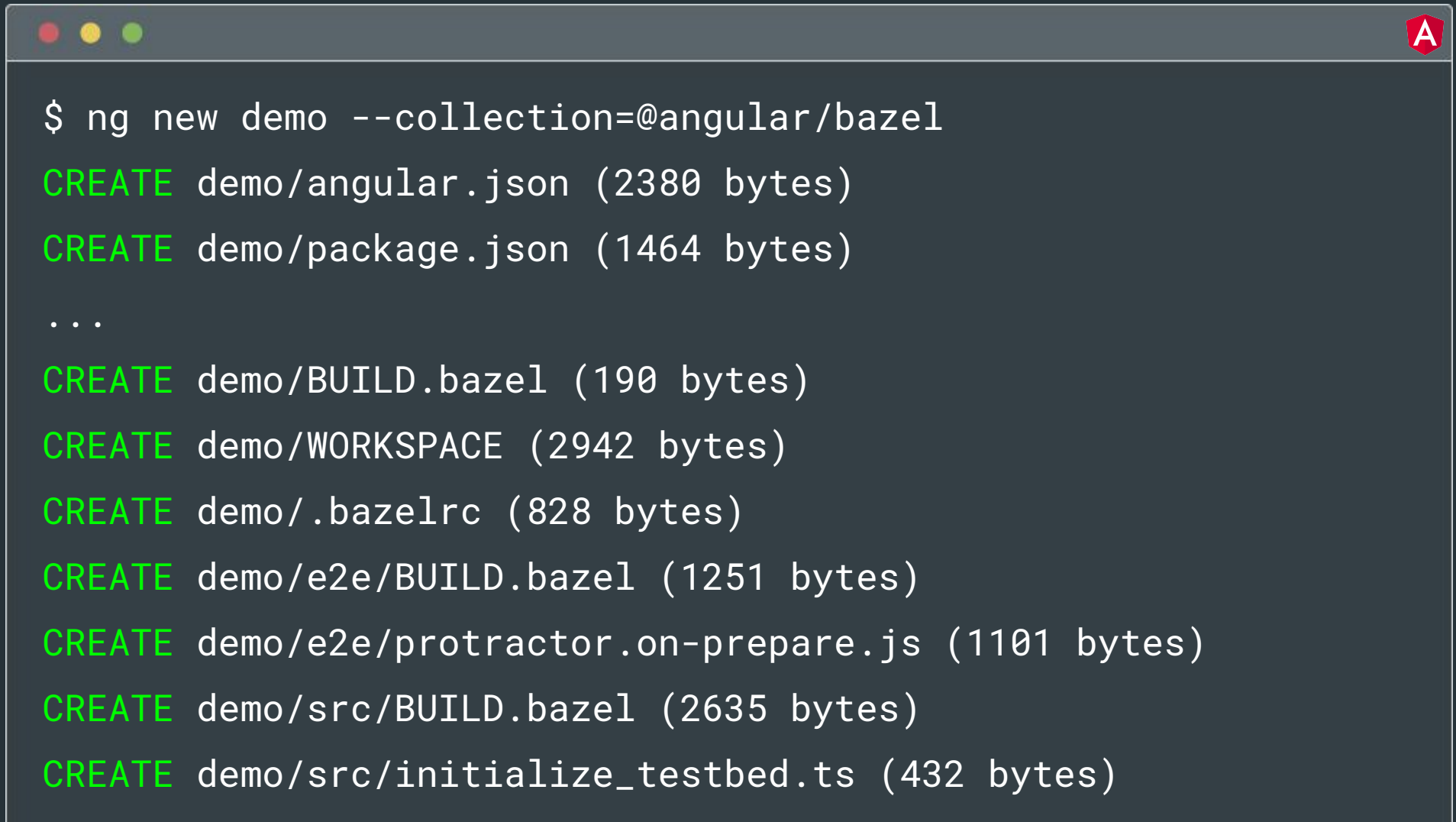
How to get started?

- Angular CLI >= v7.3.x
- `@angular/bazel` schematics >= v8.0.x
- `ng new` for new projects
- `ng add` for existing projects
- Option to “eject” Bazel files
- Option to revert

Demo



```
$ yarn global add @angular/cli@latest
$ yarn global add @angular/bazel@8.0.0-beta.2
$ ng new demo --collection=@angular/bazel
$ ng build
$ ng test
$ ng serve
```


$ ng new demo --collection=@angular/bazel
CREATE demo/angular.json (2380 bytes)
CREATE demo/package.json (1464 bytes)
...
CREATE demo/BUILD.bazel (190 bytes)
CREATE demo/WORKSPACE (2942 bytes)
CREATE demo/.bazelrc (828 bytes)
CREATE demo/e2e/BUILD.bazel (1251 bytes)
CREATE demo/e2e/protractor.on-prepare.js (1101 bytes)
CREATE demo/src/BUILD.bazel (2635 bytes)
CREATE demo/src/initialize_testbed.ts (432 bytes)

Timeline

- Q1 2019
  - Make Bazel work for small apps
  - Support existing apps
  - Still in labs!
- Preview in 8.0 release
- Mid-year: Graduate from labs along with Bazel 1.0
- Opt-in in 9.0 release

Thank You!

Slides | https://github.com/kyliau/slides/raw/master/ModernWebABC.pdf
Bazel | https://bazel.build
ABC | http://g.co/ng/abc
Demo | https://github.com/kyliau/bazel-demo

Keen Yee Liau
@liauky