

Angular, Bazel, CLI

NG-MY
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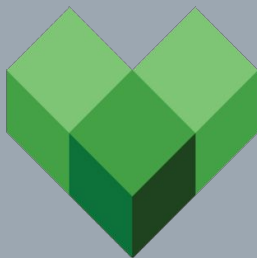
Software Engineer @ Google

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

Angular, Bazel, CLI



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





What

Why

How

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 `>= v8.0.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
```


A terminal window with a dark gray background. The title bar at the top is light gray and contains three colored window control buttons (red, yellow, green) on the left and a red shield icon with a white 'A' on the right. The terminal text is as follows:

```
$ 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

- Preview in 8.0 release
 - Make Bazel work for small apps
 - Support existing apps
 - Still in labs!
- Later this year: Graduate from labs along with Bazel 1.0





Thank You!

Slides | <https://github.com/kyliu/slides/raw/master/NgMY-ABC.pdf>

Bazel | <https://bazel.build>

ABC | <http://g.co/ng/abc>

Demo | <https://github.com/kyliu/bazel-demo>



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