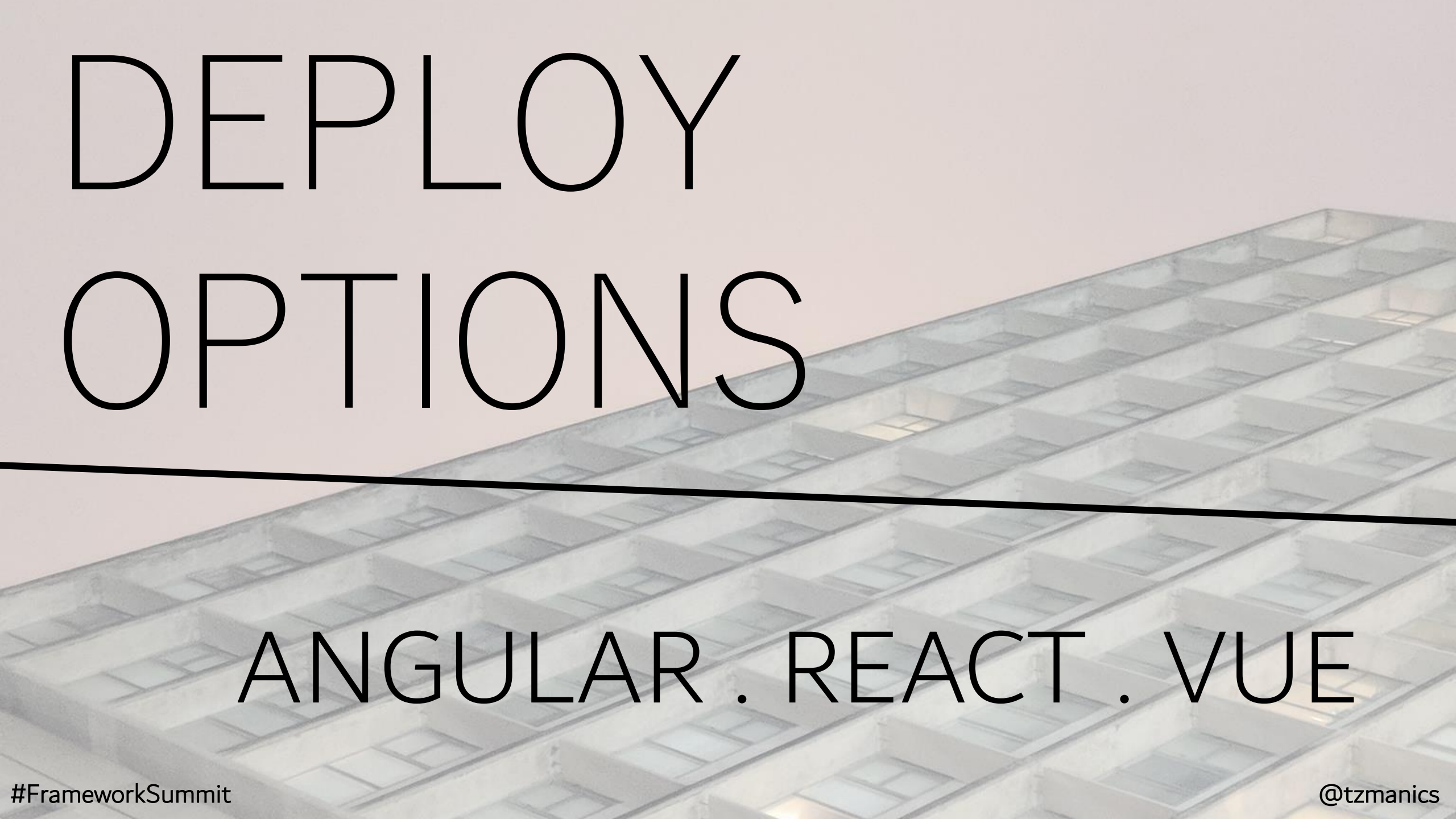

DEPLOY
OPTIONS
ANGULAR . REACT . VUE

AGENDA

i. Deployment Standards
ii. Command Line Deployment
iii. Deploying from a Dashboard
iv. Containerizing for Deploying

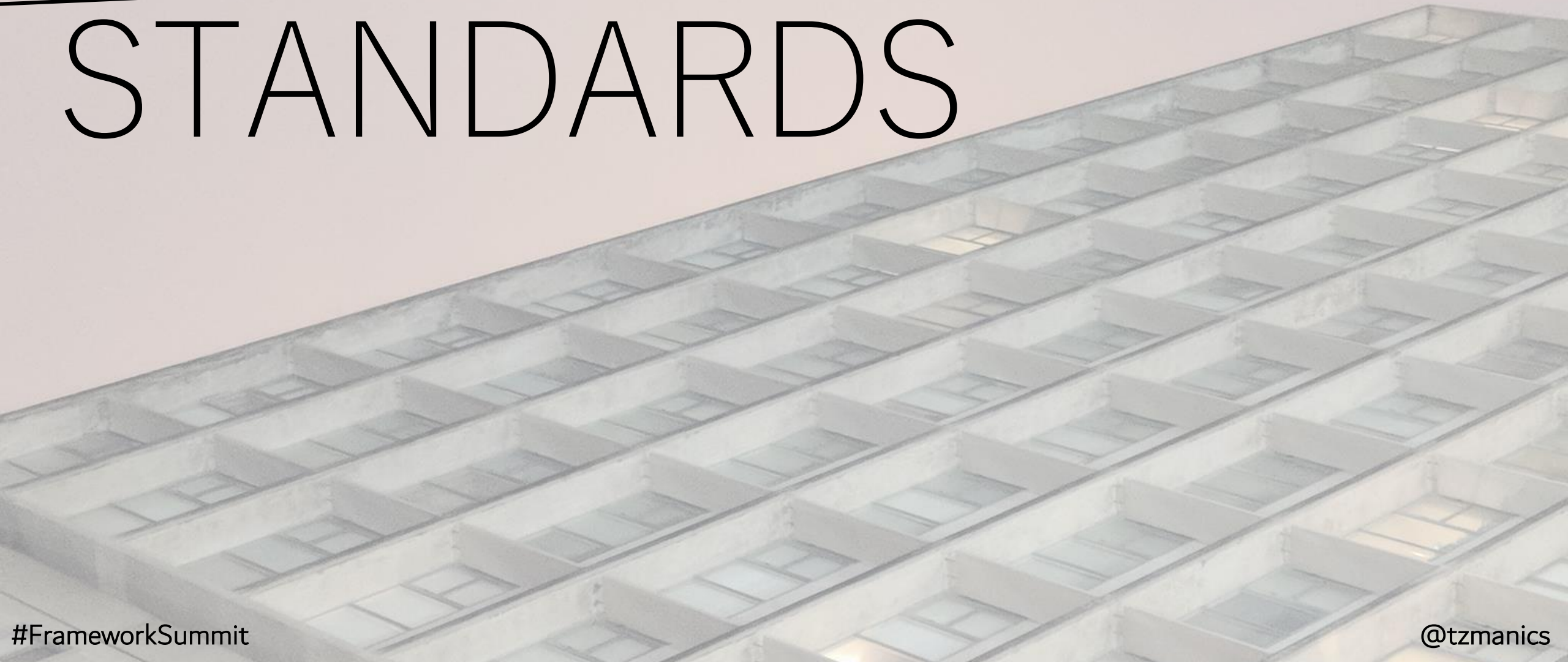
Options
Benefits & Pitfalls
Deploying an App

TARA Z. MANICSIC

- Developer Advocate at **Progress**
- **Google** Developer Expert
- Cincy **Women Who Code**
- Cincy **NodeSchool**
- **Always Forward** w dshaw

@tzmanics

DEPLOYMENT STANDARDS



#FrameworkSummit

@tzmanics

Deployment

This page describes techniques for deploying your Angular application to a remote server.

Simplest deployment possible

For the simplest deployment, build for development and copy the output directory to a web server.

1. Start with the development build

```
ng build
```

2. Copy *everything* within the output folder (`dist/` by default) to a folder on the server.

3. If you copy the files into a server *sub-folder*, append the build flag, `--base-href` and set the `<base href>` appropriately.

For example, if the `index.html` is on the server at `/my/app/index.html`, set the *base href* to

Deployment
Simplest deployment possible
Optimize for production
Build with *--prod*
Enable production mode
Lazy loading
Measure performance
Inspect the bundles
The `base` tag
build vs. *serve*
Server configuration
Routed apps must fallback to `index.html`
Requesting services from a different server (CORS)

https://angular.io/guide/deployment

Deployment

`npm run build` creates a `build` directory with a production build of your app. Set up your favorite HTTP server so that a visitor to your site is served `index.html`, and requests to static paths like `/static/js/main.<hash>.js` are served with the contents of the `/static/js/main.<hash>.js` file.

Static Server

For environments using Node, the easiest way to handle this would be to install serve and let it handle the rest:

```
npm install -g serve
serve -s build
```

The last command shown above will serve your static site on the port **5000**. Like many of serve's internal settings, the port can be adjusted using the `-p` or `--port` flags.

Run this command to get a full list of the options available:

```
serve -h
```

https://github.com/facebook/create-react-app/

Other Solutions

Tracking Runtime Errors

Single File Components

Unit Testing

TypeScript Support

Scaling Up

Routing

State Management

Server-Side Rendering

Internals

Reactivity in Depth

Migrating

Migration from Vue 1.x

Migration from Vue Router 0.7.x

Migration from Vue 1.x to 2.0

Production Deployment

Turn on Production Mode

During development, Vue provides a lot of warnings to help you with common errors and pitfalls. However, these warning strings become useless in production and bloat your app's payload size. In addition, some of these warning checks have small runtime costs that can be avoided in production mode.

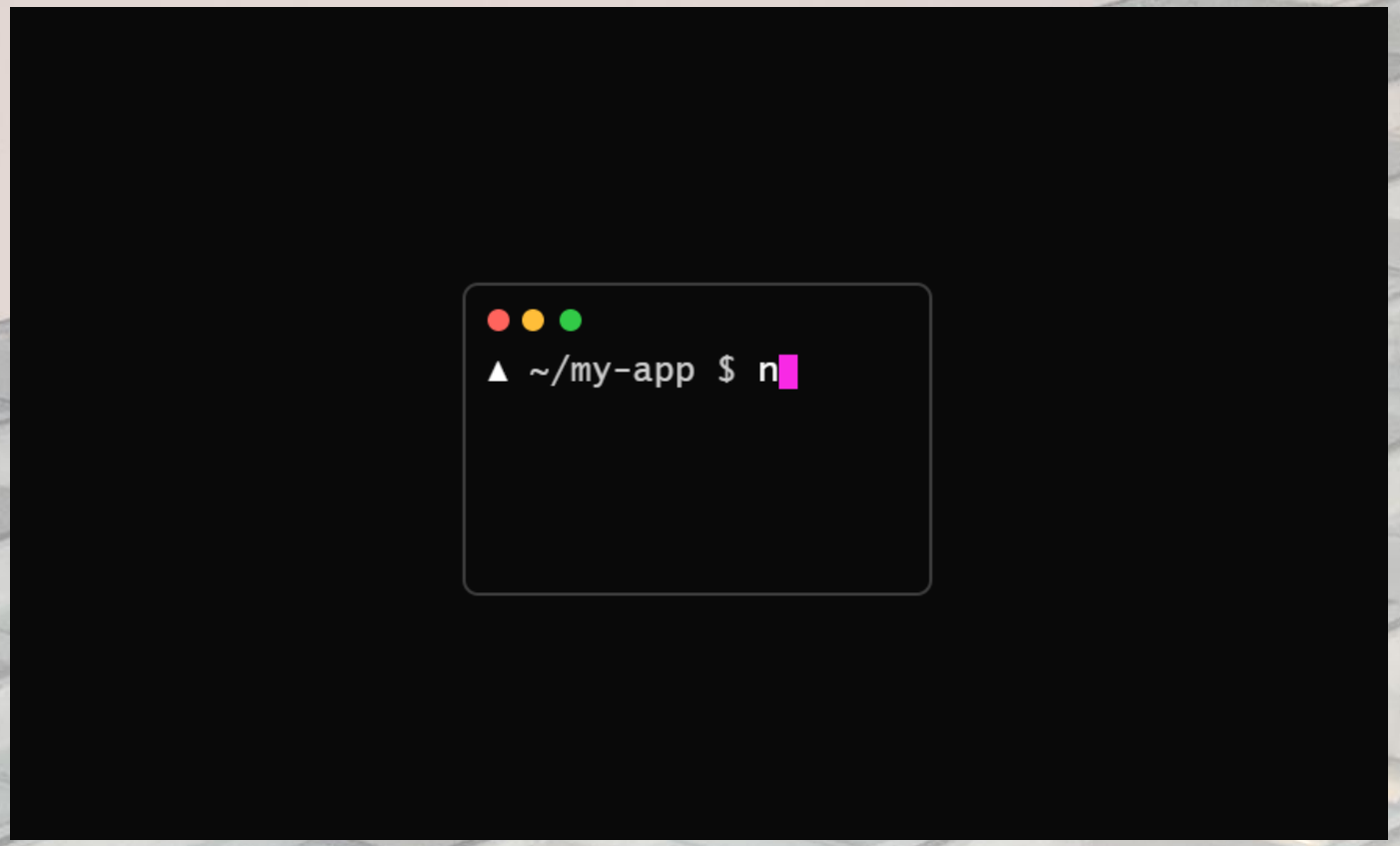
Without Build Tools

If you are using the full build (i.e. directly including Vue via a script tag without a build tool, make sure to use the minified version (`vue.min.js`) for production. Both versions can be found in the Installation guide.

https://vuejs.org/v2/guide/deployment.html

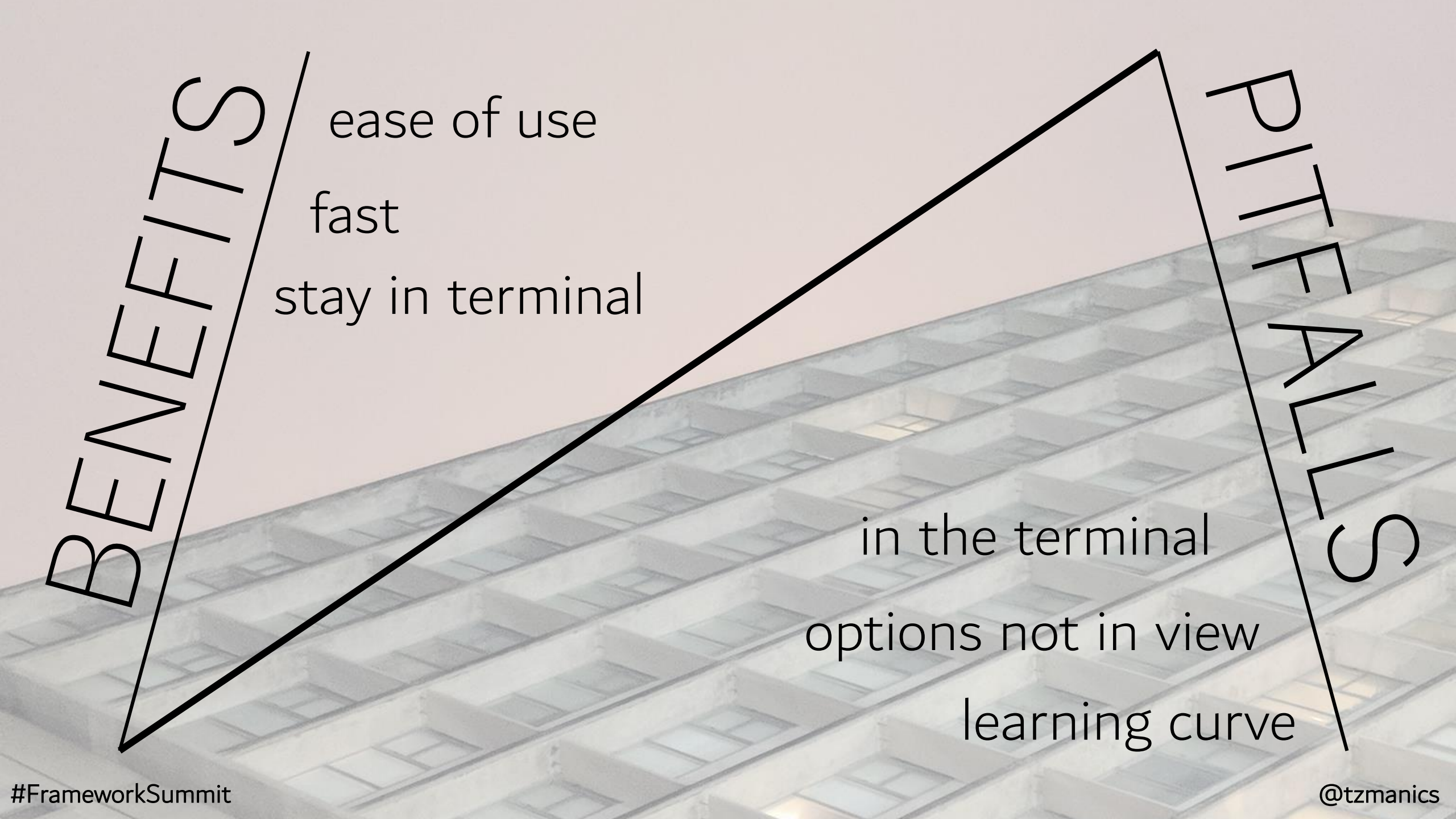
https://cli.vuejs.org/guide/deployment.html

COMMAND LINE



OPTIONS

- Google Firebase
- GitHub Pages
- Heroku
- Microsoft Azure
- Netlify
- Surge
- Zeit Now


BENEFITS
ease of use
fast
stay in terminal
PITFALLS
in the terminal
options not in view
learning curve

ZEIT NOW

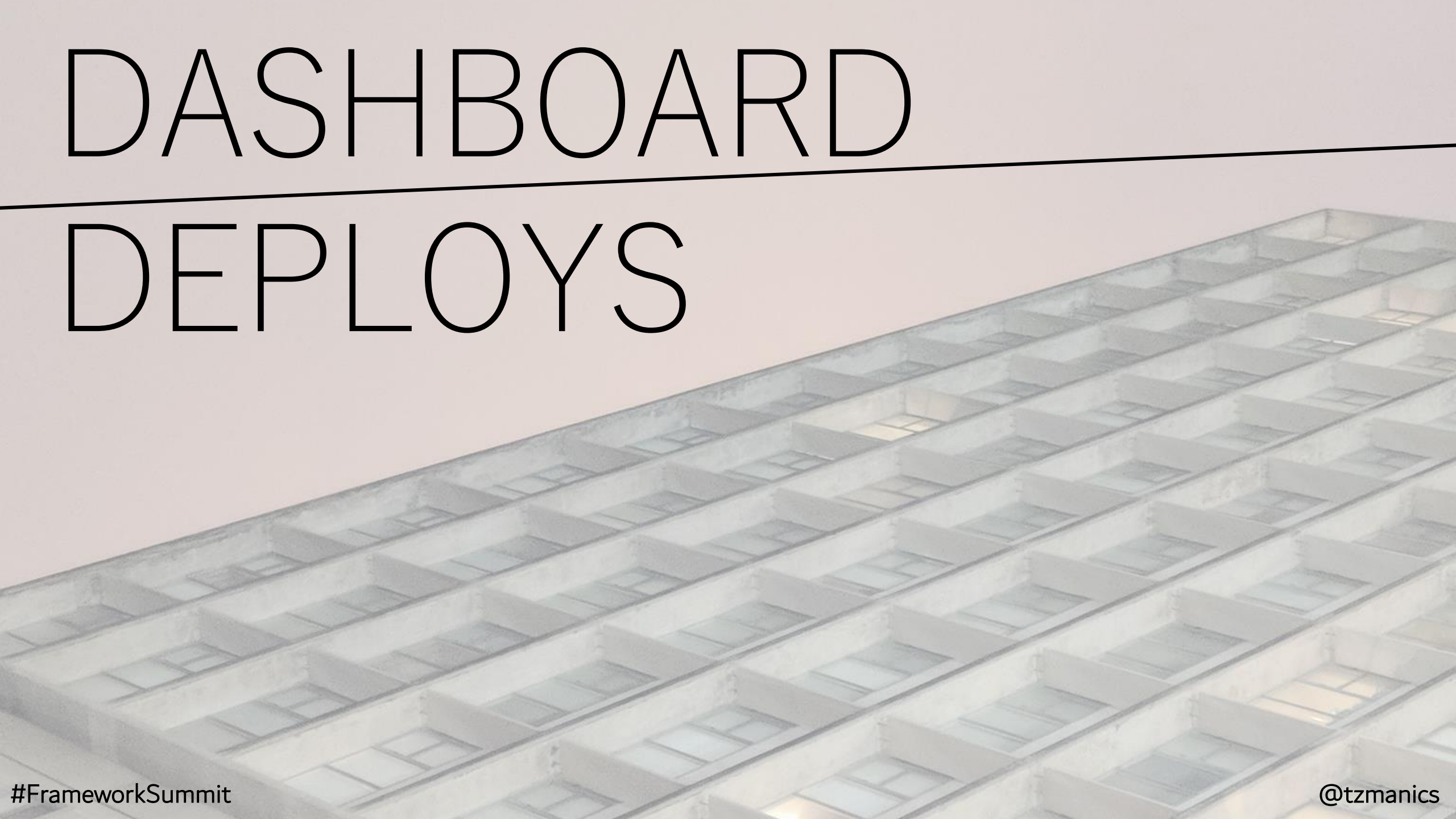
VUE.JS

#FrameworkSummit

@tzmanics

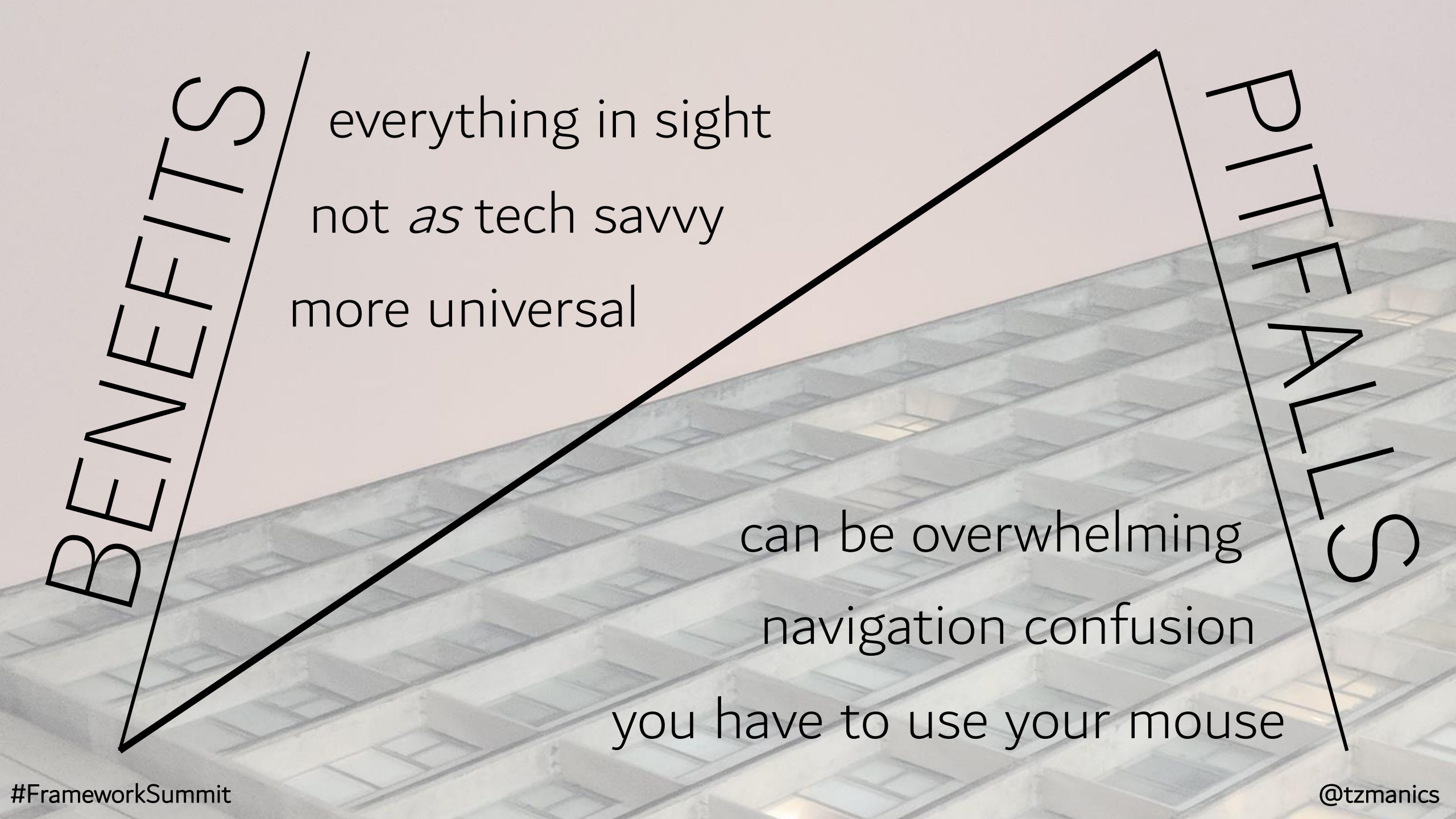
TARA ZVEZDA MANICSIC
CONTACT
RESUME
WEBLOG
VIDEOS
COME SEE ME AT DEVFEST ATLANTA 9/22 in ATL!

DASHBOARD DEPLOYS

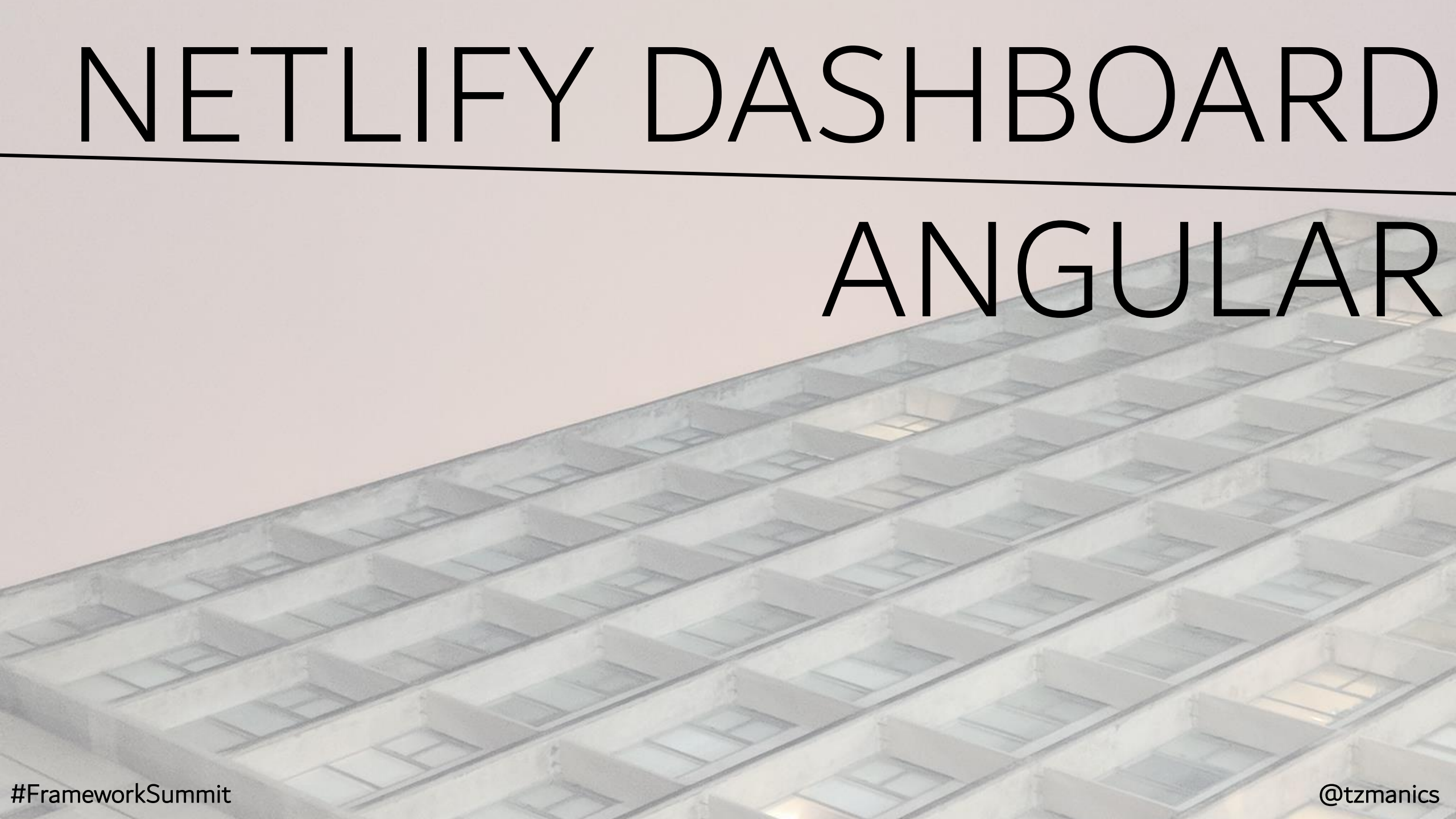


OPTIONS

- AWS S3/CloudFront
- Google Firebase
- Heroku
- Microsoft Azure
- Netlify


BENEFITS
everything in sight
not *as* tech savvy
more universal
PITFALLS
can be overwhelming
navigation confusion
you have to use your mouse

NETLIFY DASHBOARD ANGULAR



#FrameworkSummit

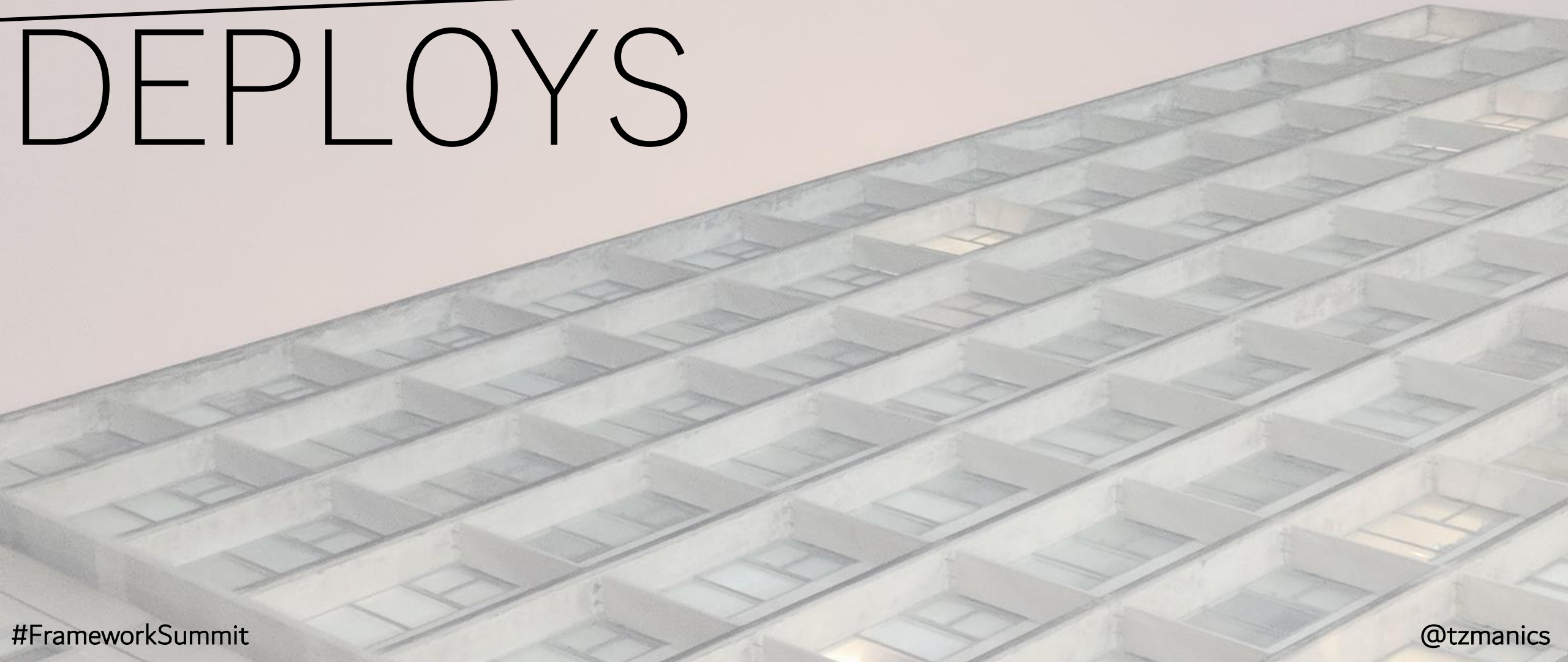
@tzmanics

Build, deploy, and manage modern web projects

An all-in-one workflow that combines global deployment, continuous integration, and automatic HTTPS. And that's just the beginning.

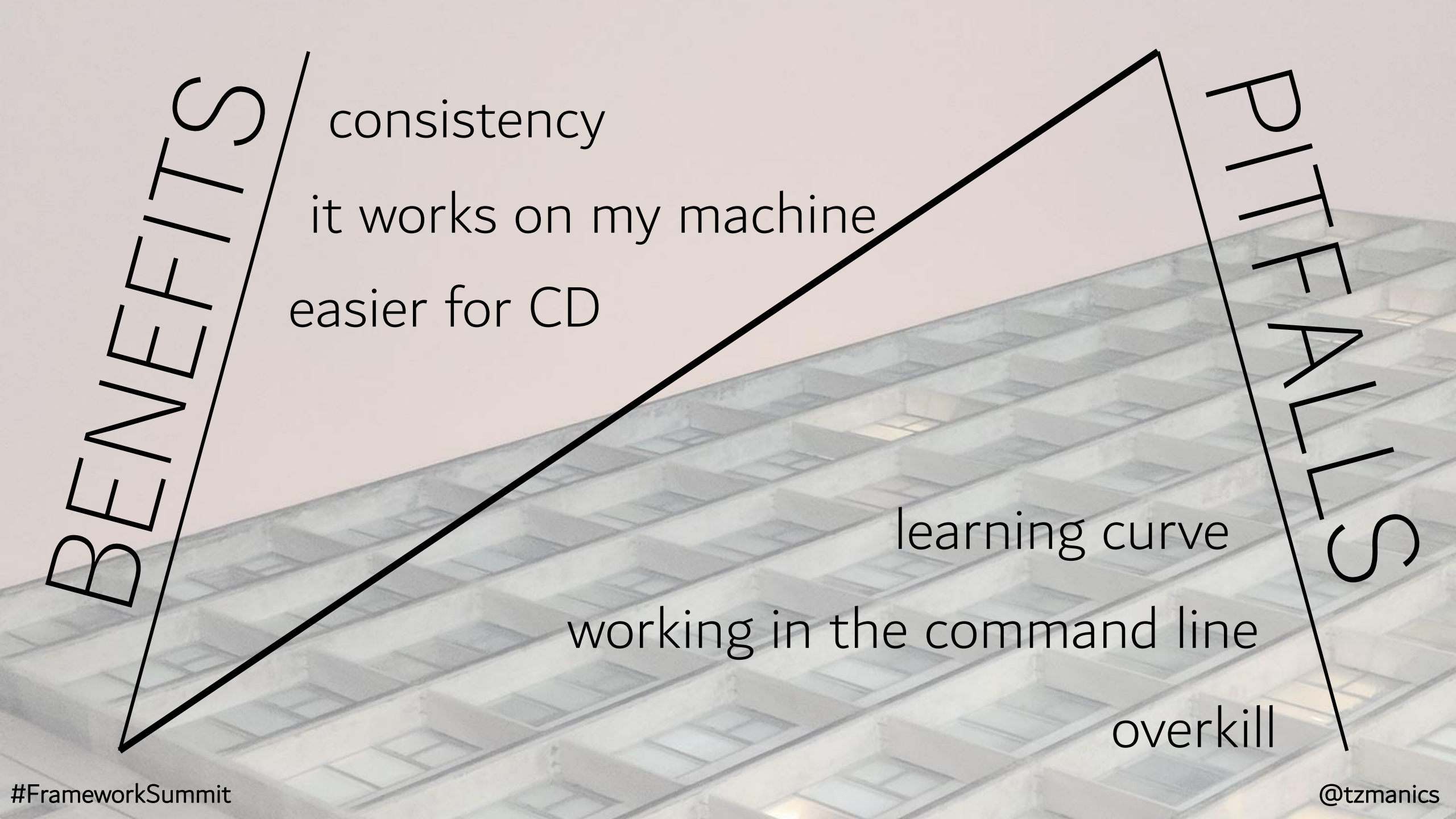
Get started for free

CONTAINERIZED DEPLOYS



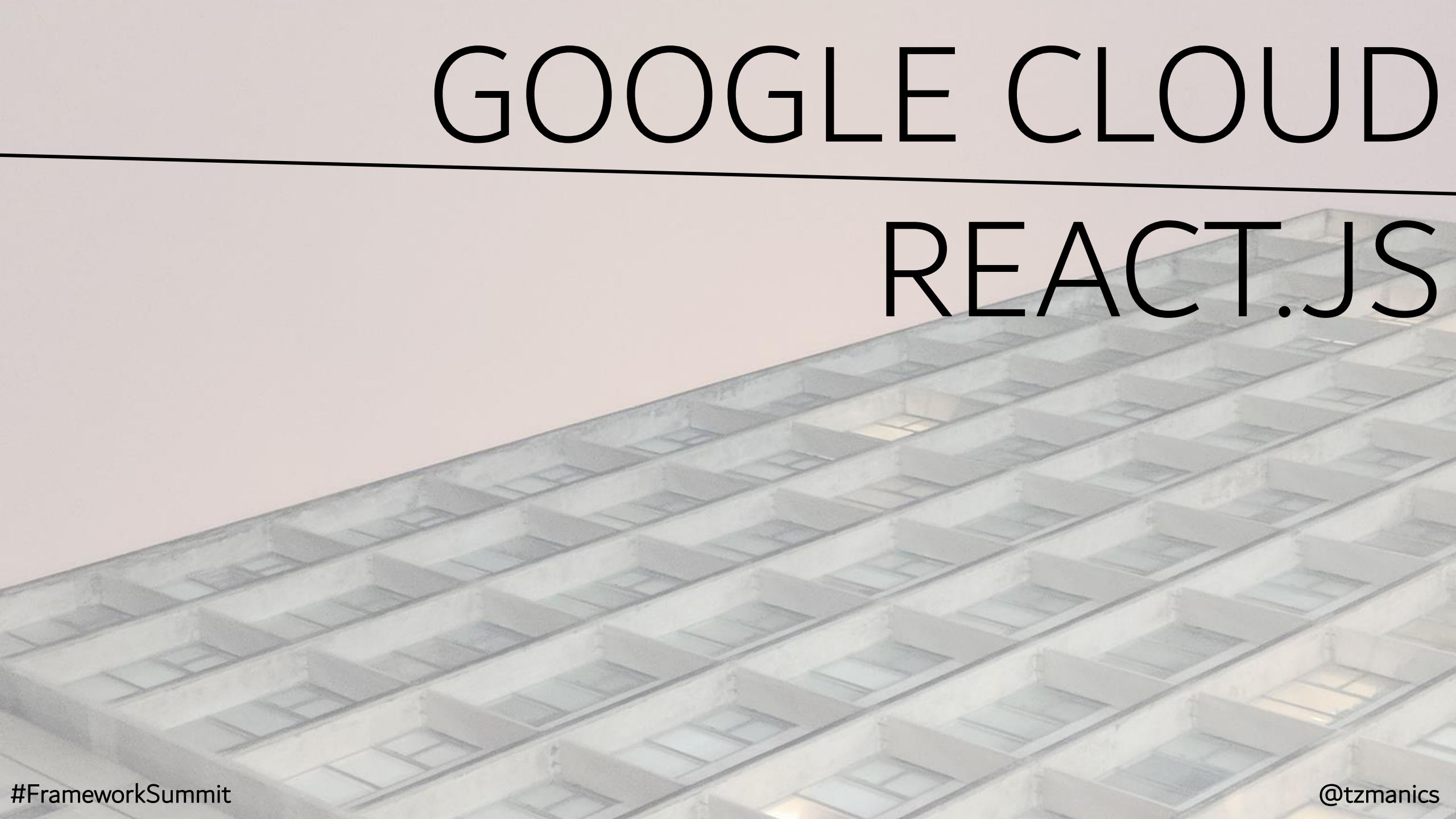
OPTIONS

- AWS S3/CloudFront
- Google Cloud
- Heroku
- Microsoft Azure
- Zeit Now


BENEFITS
consistency
it works on my machine
easier for CD
PITFALLS
learning curve
working in the command line
overkill

GOOGLE CLOUD

REACT.JS



#FrameworkSummit

@tzmanics

Deploying a containerized web application

☆ ☆ ☆ ☆ ☆
SEND FEEDBACK

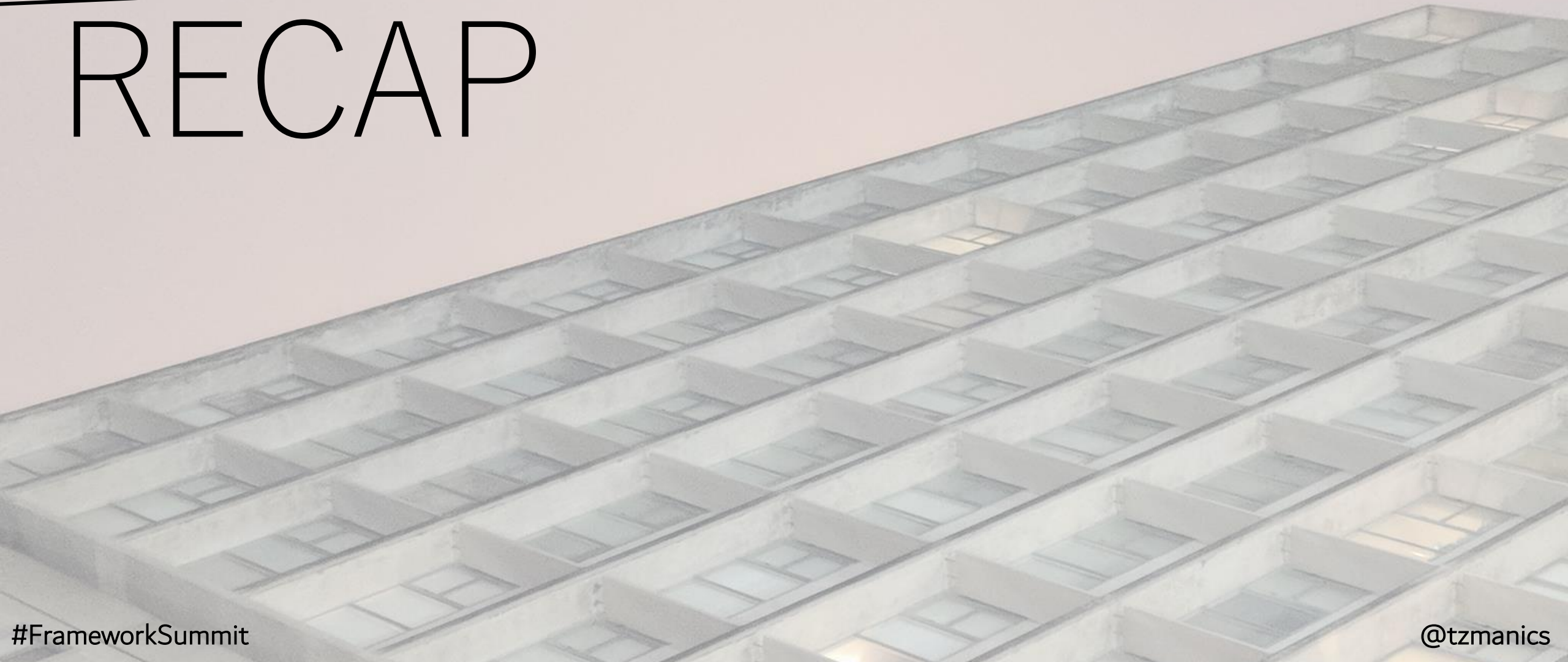
This tutorial shows you how to package a web application in a Docker container image, and run that container image on a Google Kubernetes Engine cluster as a load-balanced set of replicas that can scale to the needs of your users.

Objectives

To package and deploy your application on GKE, you must:

1. Package your app into a Docker image
2. Run the container locally on your machine (optional)
3. Upload the image to a registry
4. Create a container cluster
5. Deploy your app to the cluster
6. Expose your app to the Internet
7. Scale up your deployment

OPTIONS RECAP



Amazon S3

Object storage built to store and retrieve any amount of data from anywhere

Get started with Amazon S3 | Request more information

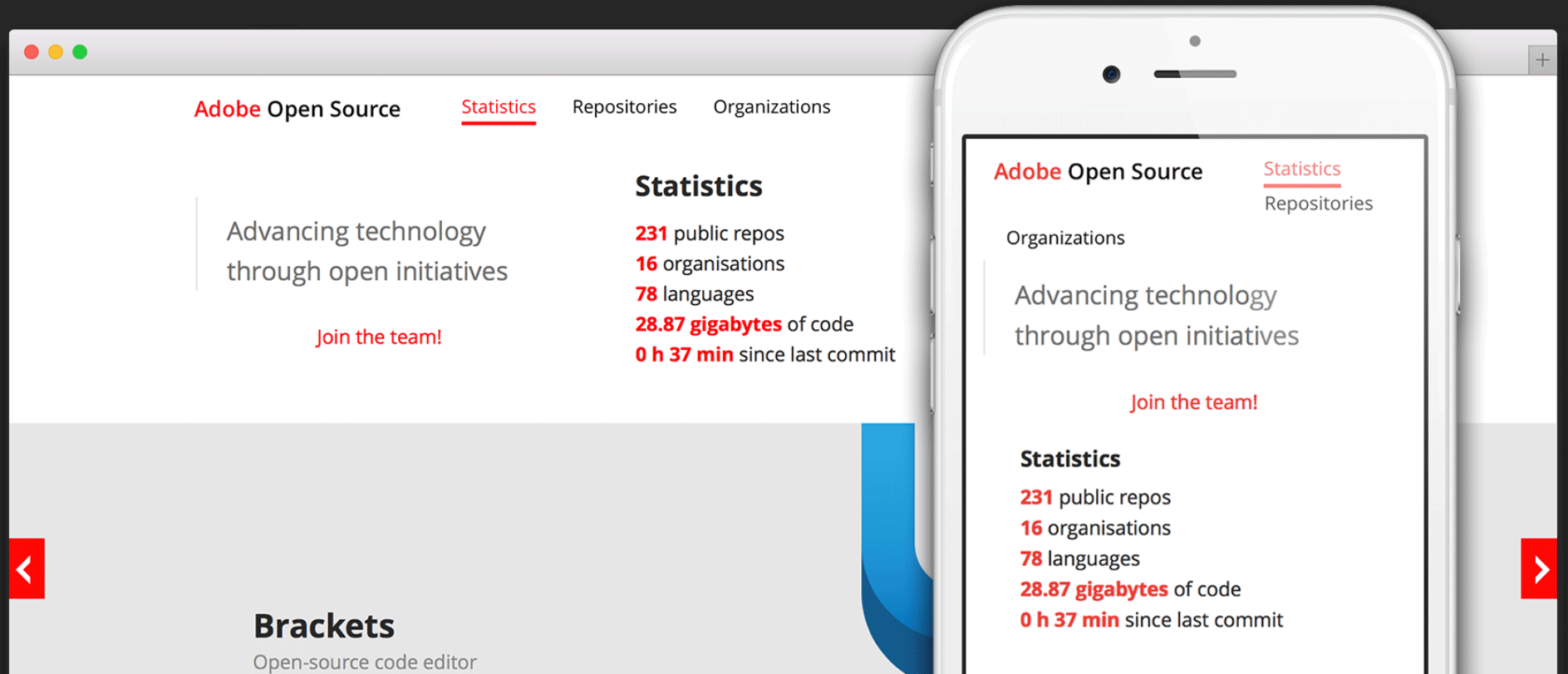
Companies today need the ability to simply and securely collect, store, and analyze their data at a massive scale. Amazon S3 is object storage built to store and retrieve any amount of data from anywhere – web sites and mobile apps, corporate applications, and data from IoT sensors or devices. It is designed to deliver 99.999999999% durability, and stores data for millions of applications used by market leaders in every industry. S3 provides comprehensive security and compliance capabilities that meet even the most stringent regulatory requirements. It gives customers flexibility in the way they manage data for cost optimization, access control, and compliance. S3 provides query-in-place functionality, allowing you to run powerful analytics directly on your data at rest in S3. And Amazon S3 is the most supported cloud storage service available, with integration from the largest community of third-party solutions, systems integrator partners, and other AWS services.

Introduction to Amazon S3 (4:32)

GitHub Pages

Websites for you and your projects.

Hosted directly from your GitHub repository. Just edit, push, and your changes are live.



Firebase Crashlytics Prioritize and fix issues with powerful, realtime crash reporting. Learn more

Firebase helps mobile app teams succeed.

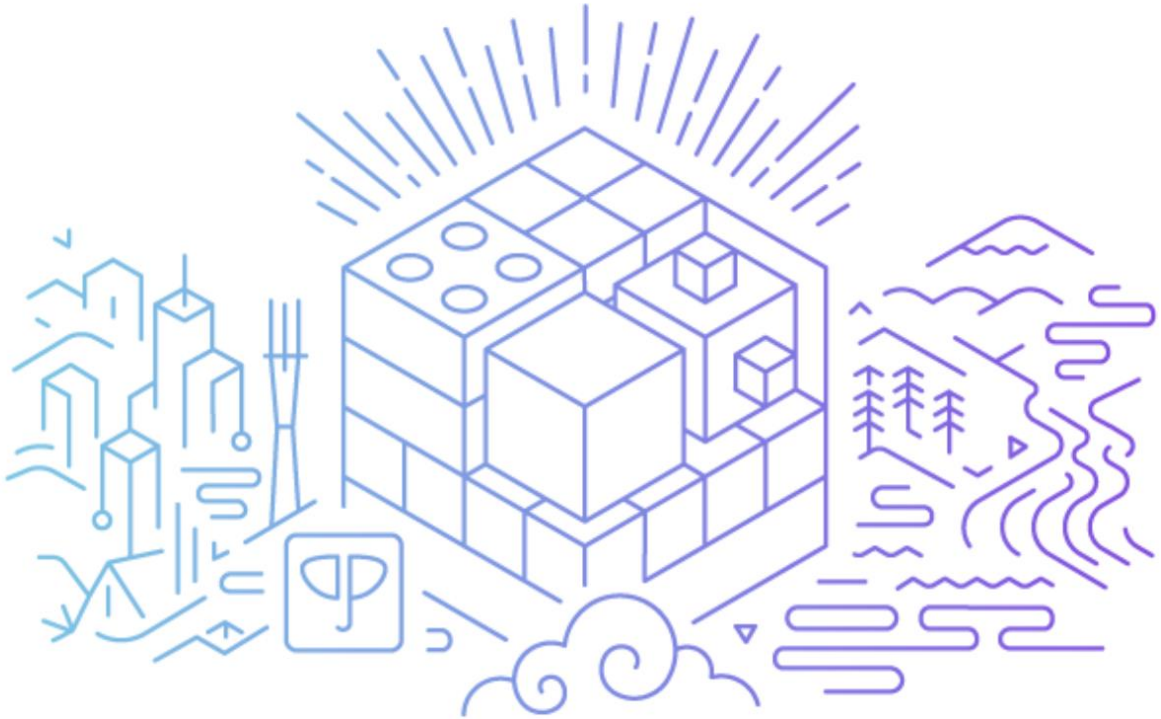
GET STARTED

WATCH THE VIDEO

Build apps fast, without managing infrastructure

Backed by Google, trusted by top apps

One platform, with products that work better together



NEW

Heroku Postgres PGX: New Plans, More Possibilities

We're excited to announce our new lineup of Postgres production plans. PGX Plans introduce larger database sizes, more generous resource allocations, and a broader set of options to suit your needs and to help your applications scale more smoothly.

SIGN UP FOR FREE

Explore Heroku Postgres

Read our Announcement

Microsoft Azure

Get started with 12 months of free services

Start free >

Or buy now >

Build, deploy, and manage modern web projects

An all-in-one workflow that combines global deployment, continuous integration, and automatic HTTPS. And that's just the beginning.

Get started for free

Deploy your site in seconds*

surge

Static web publishing *for* Front-End Developers

Simple, single-command web publishing. Publish HTML, CSS, and JS for free, without leaving the command line.

3,055,074 deployments

33.89 TB published

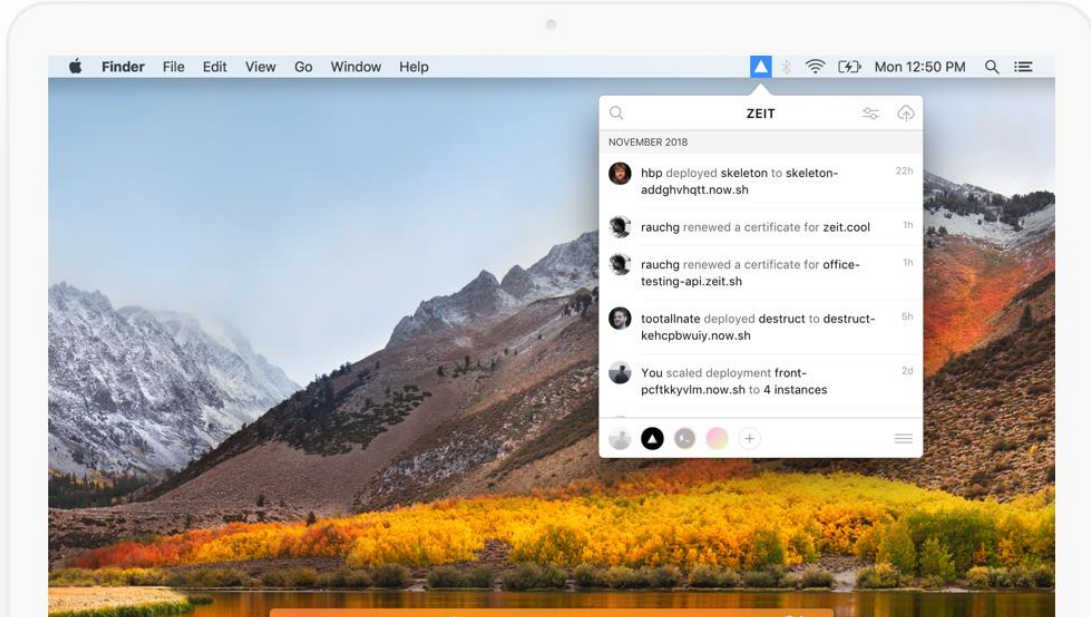
374,592 projects

```
$ npm install --global surge
# In your project directory, just run…
$ surge
```

Now Desktop

Our desktop application is **the easiest way** to get started with Now

DOWNLOAD



PSA

PUBLIC SERVICE ANNOUNCEMENT

PPSA

PARENTAL PUBLIC SERVICE ANNOUNCEMENT

THANK YOU!

SLIDES:
@tzmanics

#FrameworkSummit