

THE BEGINNING.

The end to my last talk

All
gems
start with a namespace

No
Rails app
starts with a namespace

Rails



Gems

(a gorgeous and
infinite nothingness)

Rails



Gems

(a gorgeous and
infinite nothingness
with all the bells and
whistles of active*)

Rails



Gems

Try this!

Namespace everything
in your next app

Give yourself a box so
you can start thinking
outside of it

Component-based Ruby and Rails Architectures

Stephan Hagemann



Let's talk about large apps

Never build large apps.



Your app wants to kill you!

Sandi Metz



[HTTP://WWW.FLICKRIVER.COM/PHOTOS/REXY85/263649949/](http://www.flickriver.com/photos/rexy85/263649949/)



[HTTP://WWW.PBASE.COM/SIGMADSLR/IMAGE/34745521](http://www.pbase.com/sigmadslr/image/34745521)



The secret to building large apps is **never build large apps.**

Justin Meyer

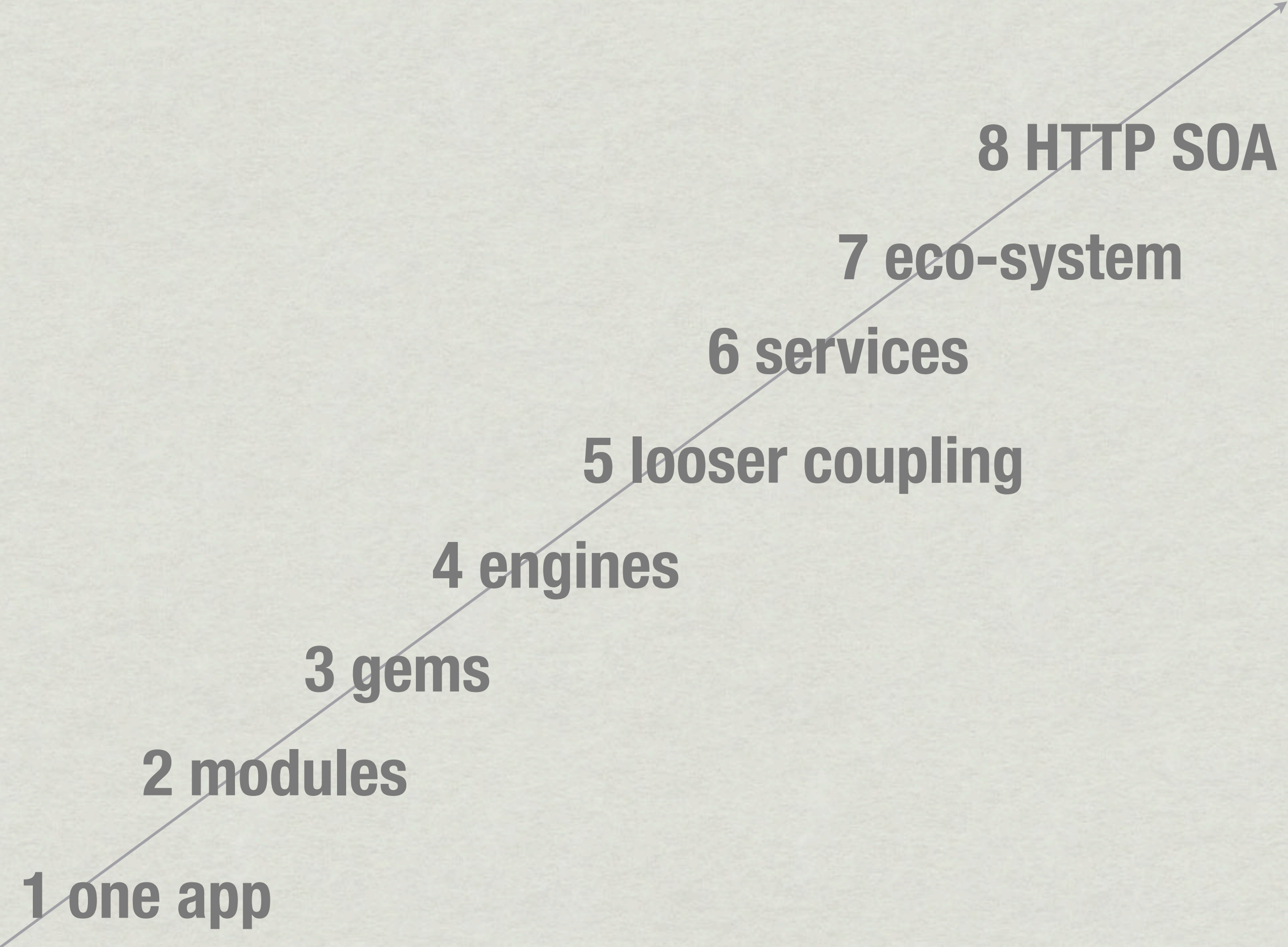
The secret to building large apps is **never build large apps**. Break your applications into small pieces. Then, assemble those testable, bite-sized pieces into your big application

Justin Meyer

But how?

github.com/shageman/the_next_big_thing





1 one app

2 modules

3 gems

4 engines

5 looser coupling

6 services

7 eco-system

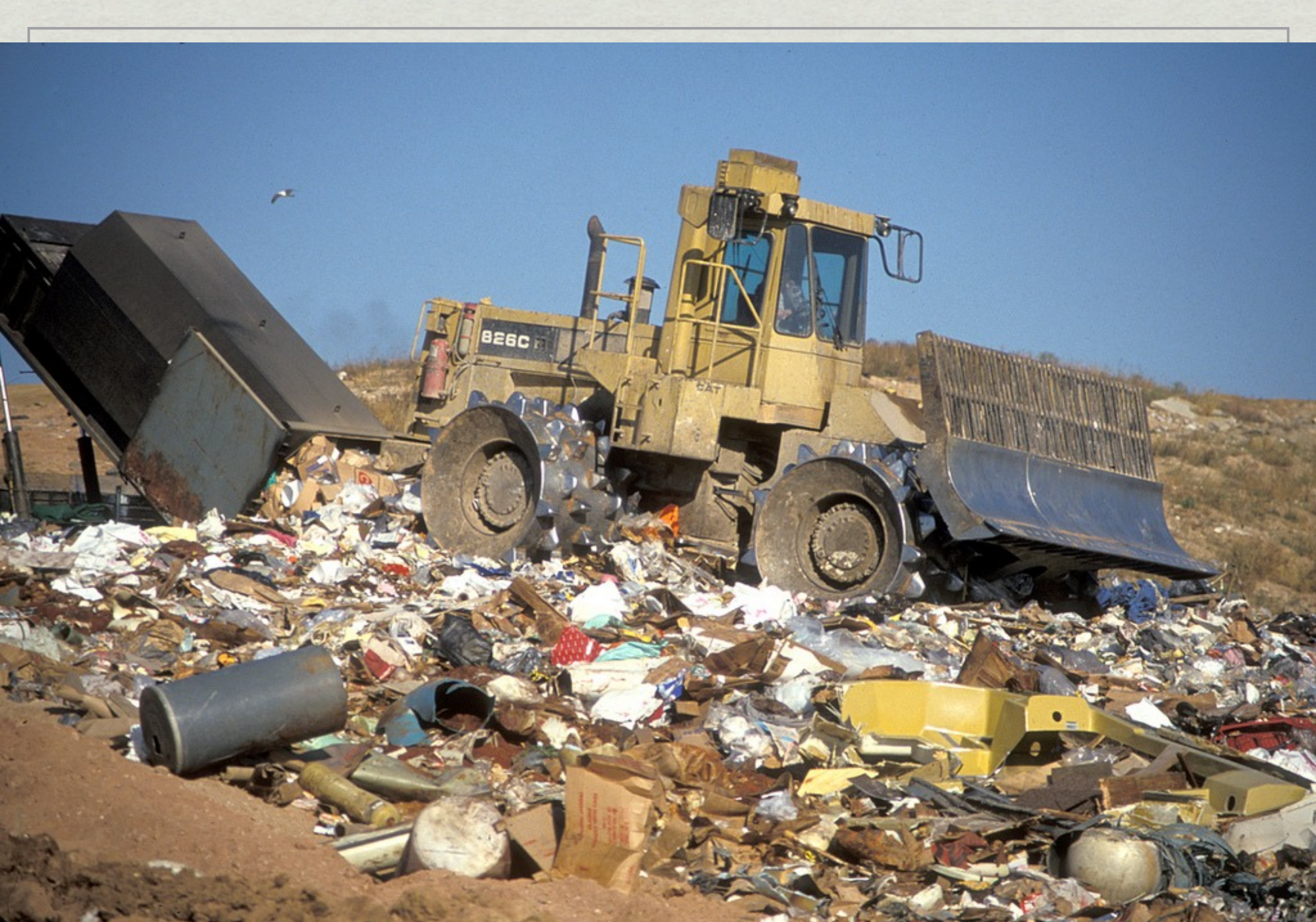
8 HTTP SOA



The one app

Remember!

a gorgeous and infinite
nothingness
with all the bells and
whistles of active*

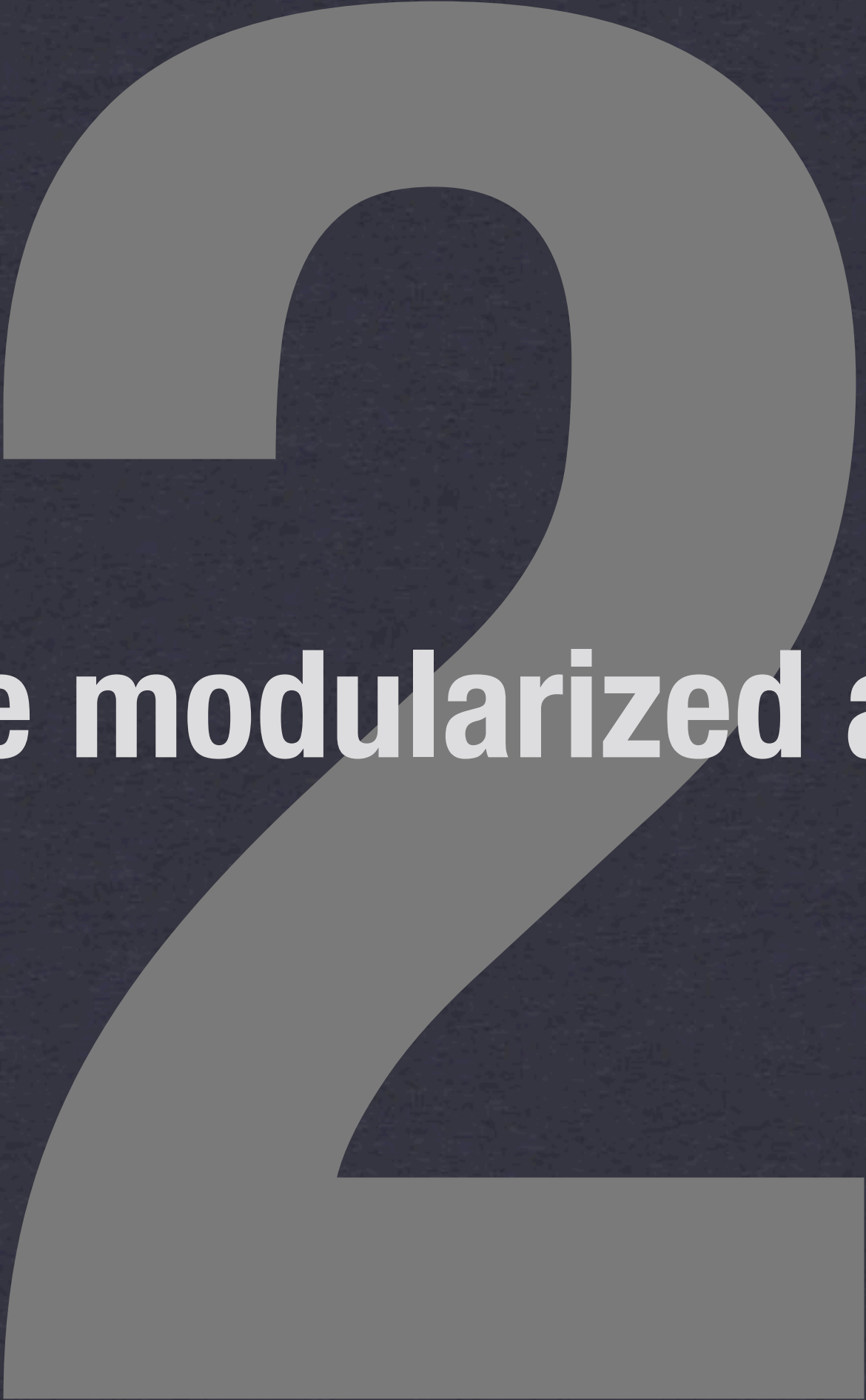


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STRUCTURE

ENTRY

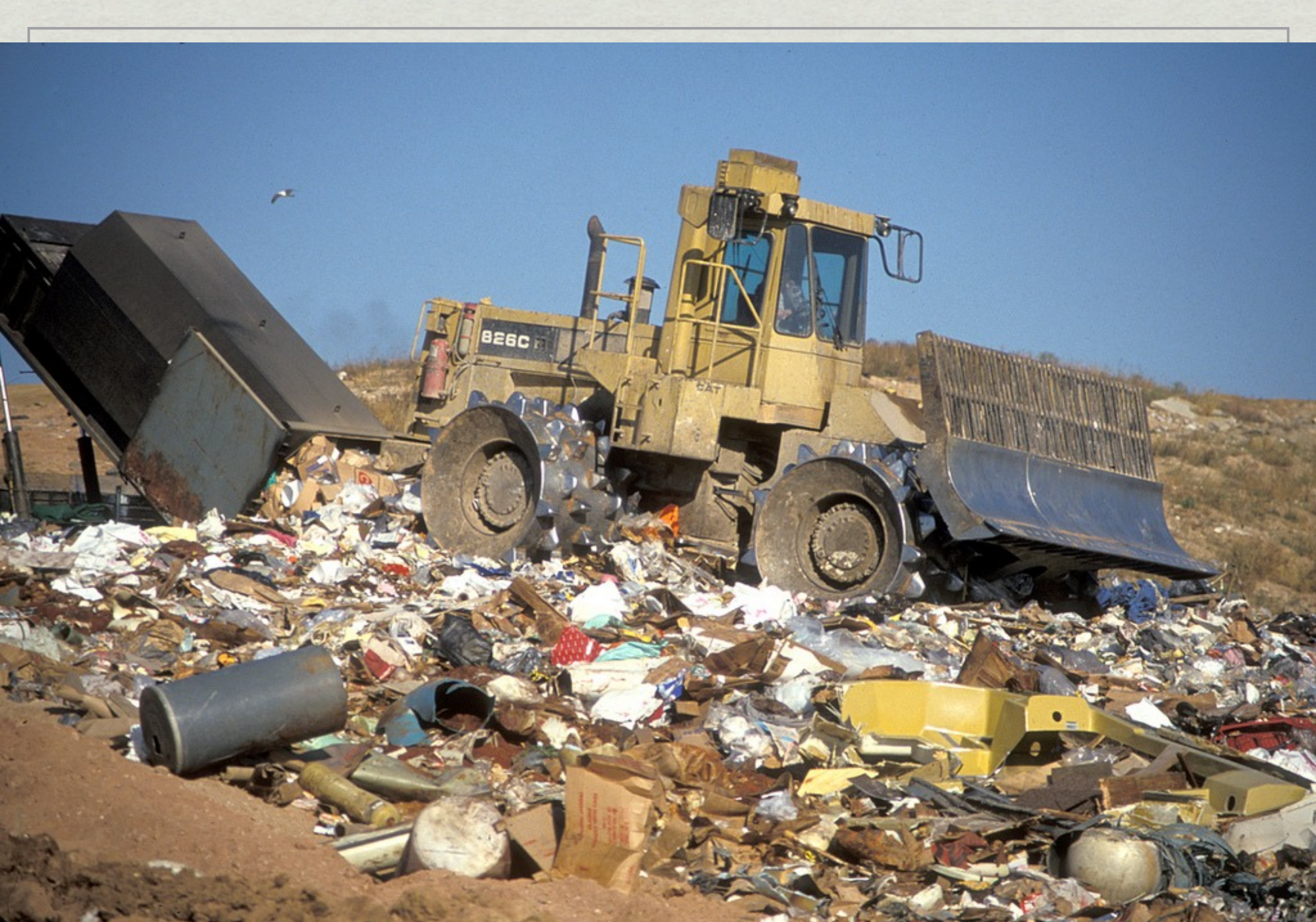
ANNOYANCE



The modularized app



A higher level structure

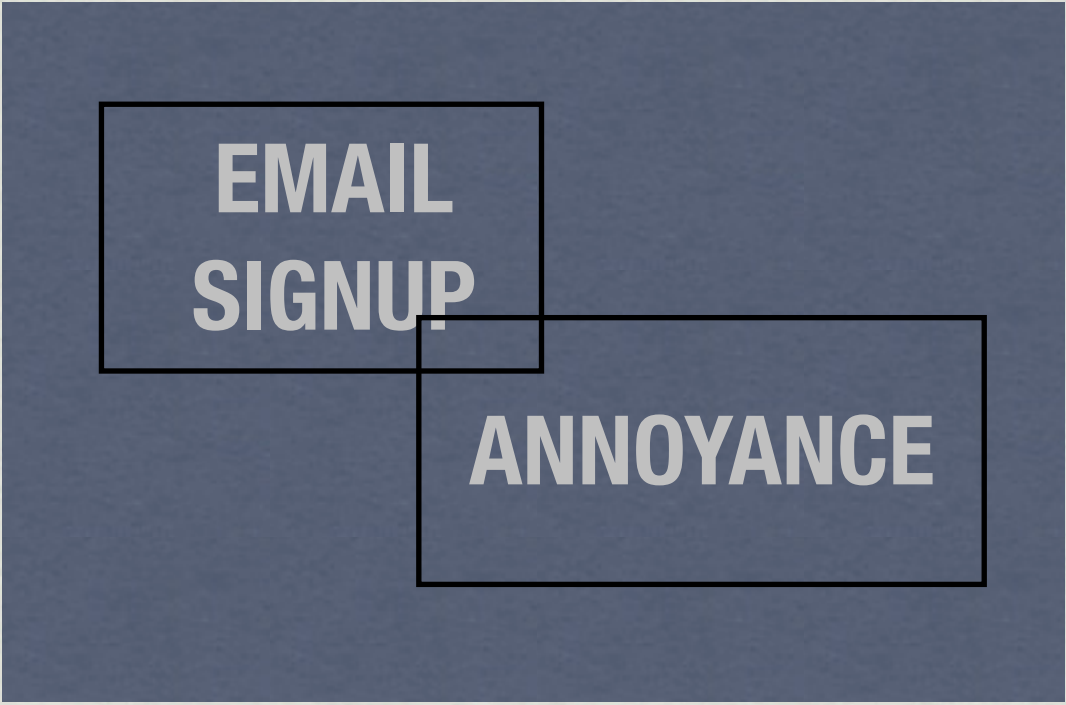


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[HTTP://EECUE.COM/P/31426/METAL-RECYCLING-YARD.HTML](http://eecue.com/p/31426/metal-recycling-yard.html)

STRUCTURE



A diagram illustrating the relationship between two concepts. A large dark blue rectangle serves as the background. Inside it, there are two smaller rectangles with black borders. The first rectangle, on the left, is labeled 'EMAIL SIGNUP'. The second rectangle, on the right, is labeled 'ANNOYANCE'. The two rectangles overlap, with the 'ANNOYANCE' rectangle positioned slightly lower and to the right of the 'EMAIL SIGNUP' rectangle.

**EMAIL
SIGNUP**

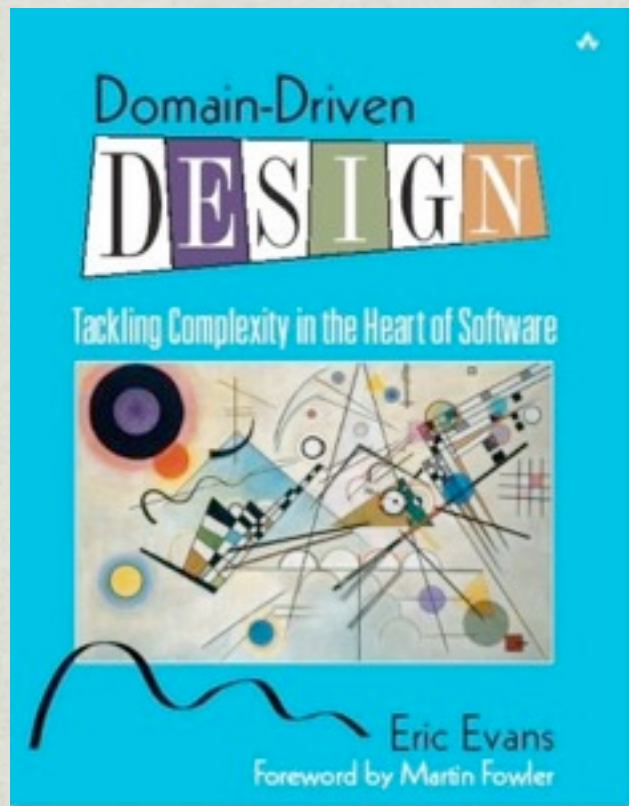
ANNOYANCE

A large, light gray, stylized letter 'S' serves as a background logo, centered on the slide. It has a thick, rounded stroke.

The gem component app



Provably independent tests



Choose modules that **tell the story of the system** and contain a **cohesive set of concepts**

Eric Evans





STRUCTURE

```
graph TD; A[EMAIL SIGNUP] --> B[ANNOYANCE]
```

**EMAIL
SIGNUP**



ANNOYANCE



The Rails component app



Provable structure for Rails

Rails Engines

Engines are not just for
pagination, generic
admin, and authentication

Engines are not just
kaminari, generic admin,
and authentication

Engines are not just
kaminari, **active admin**,
and authentication

Engines are not just
kaminari, active admin,
and **devise**

Rails::Engine allows you to wrap a specific Rails application or subset of functionality and **share it with other applications or within a larger packaged application.**

<http://edgeapi.rubyonrails.org/classes/Rails/Engine.html>

STRUCTURE



What code smell did
you see?

Single Responsibility

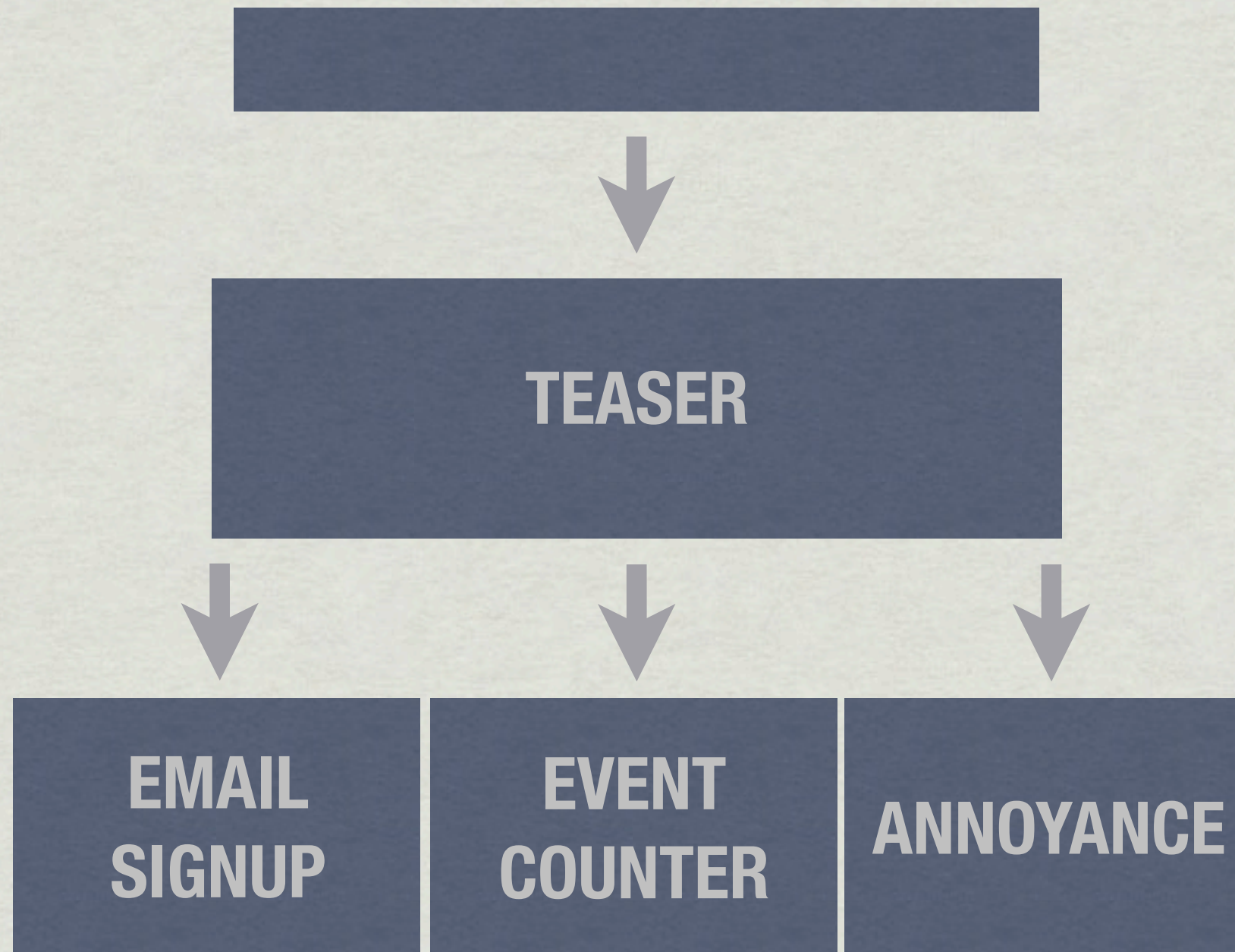
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The loosely-coupled app

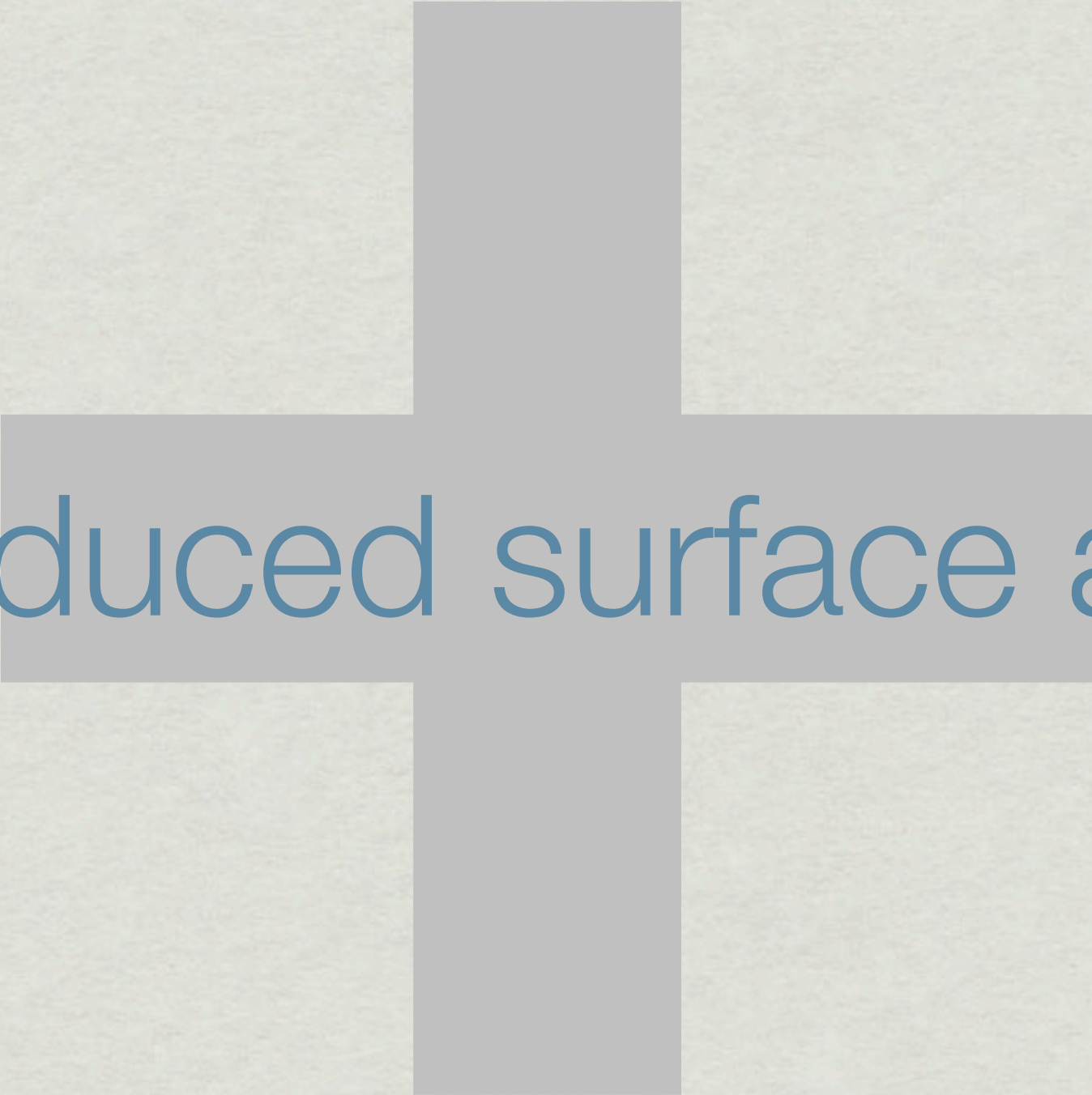


Clearer responsibilities

STRUCTURE



The service-oriented app



Reduced surface area

EVENTCOUNTER::*.METHODS.COUNT

LOGGER::COUNT

588 361

LOGGER

194 115

EVENTCOUNTER::*.METHODS.COUNT

LOGGER::COUNT

588 361

LOGGER

194 115

- OBJECT.METHODS

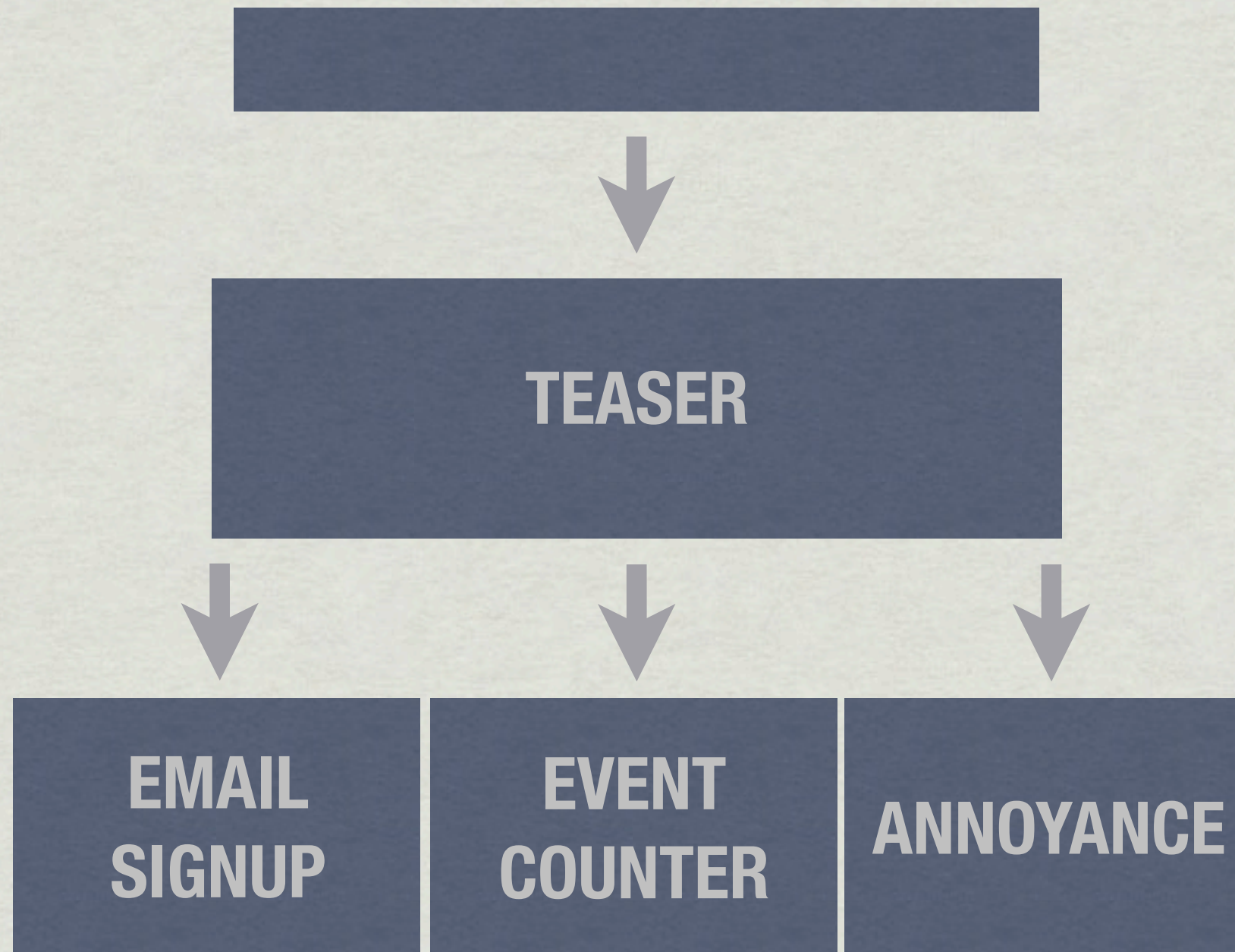
LOGGER::COUNT

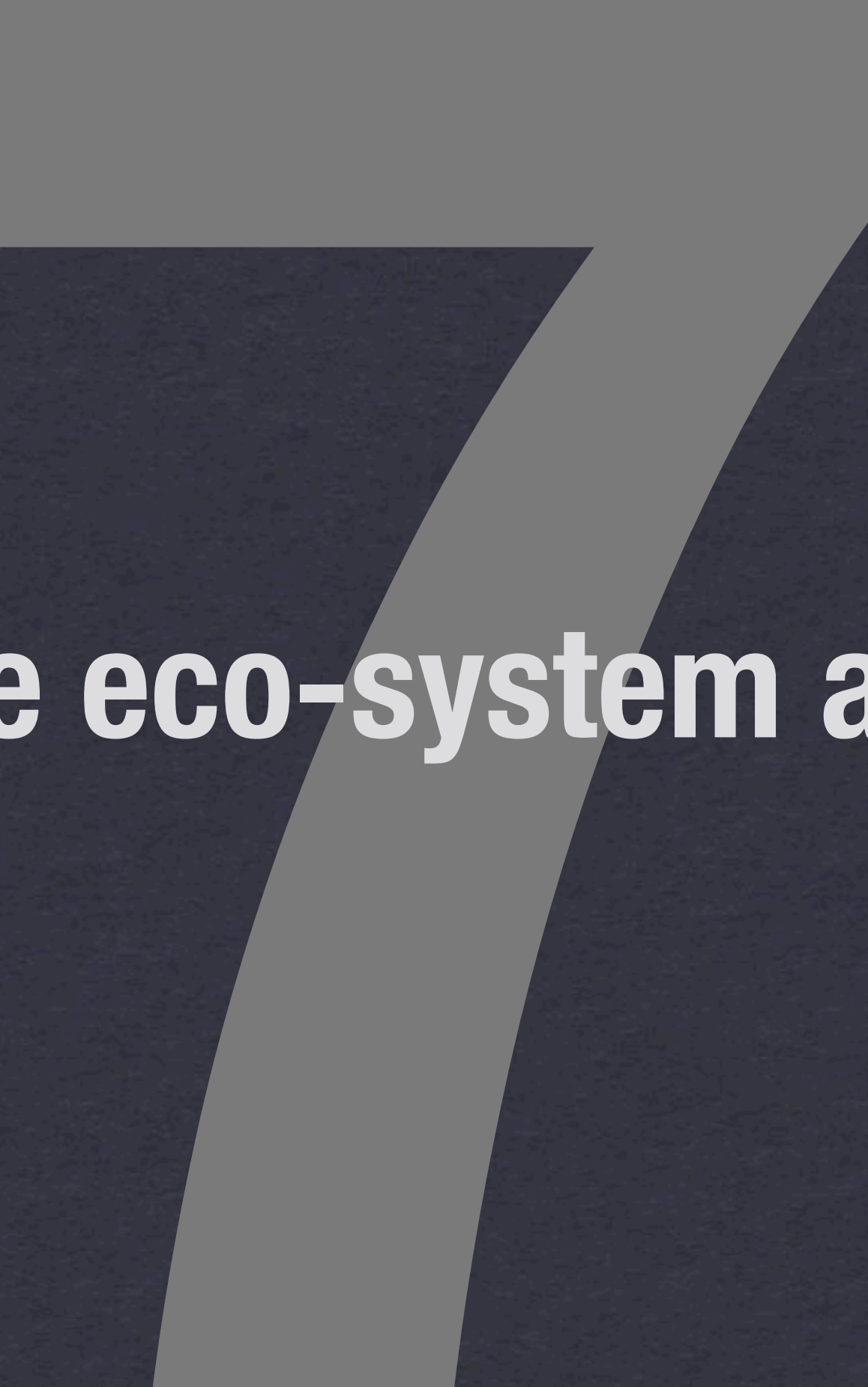
394 247

LOGGER

0 1

STRUCTURE





The eco-system app

gem build event_counter..

gem push event_counter..

event_counter 0.0.1

This engine is part of a rails-architecture-sample app, which you can find at https://github.com/shageman/the_next_big_thing

INSTALL > `gem install event_counter`



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Authors

Stephan Hagemann

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total downloads

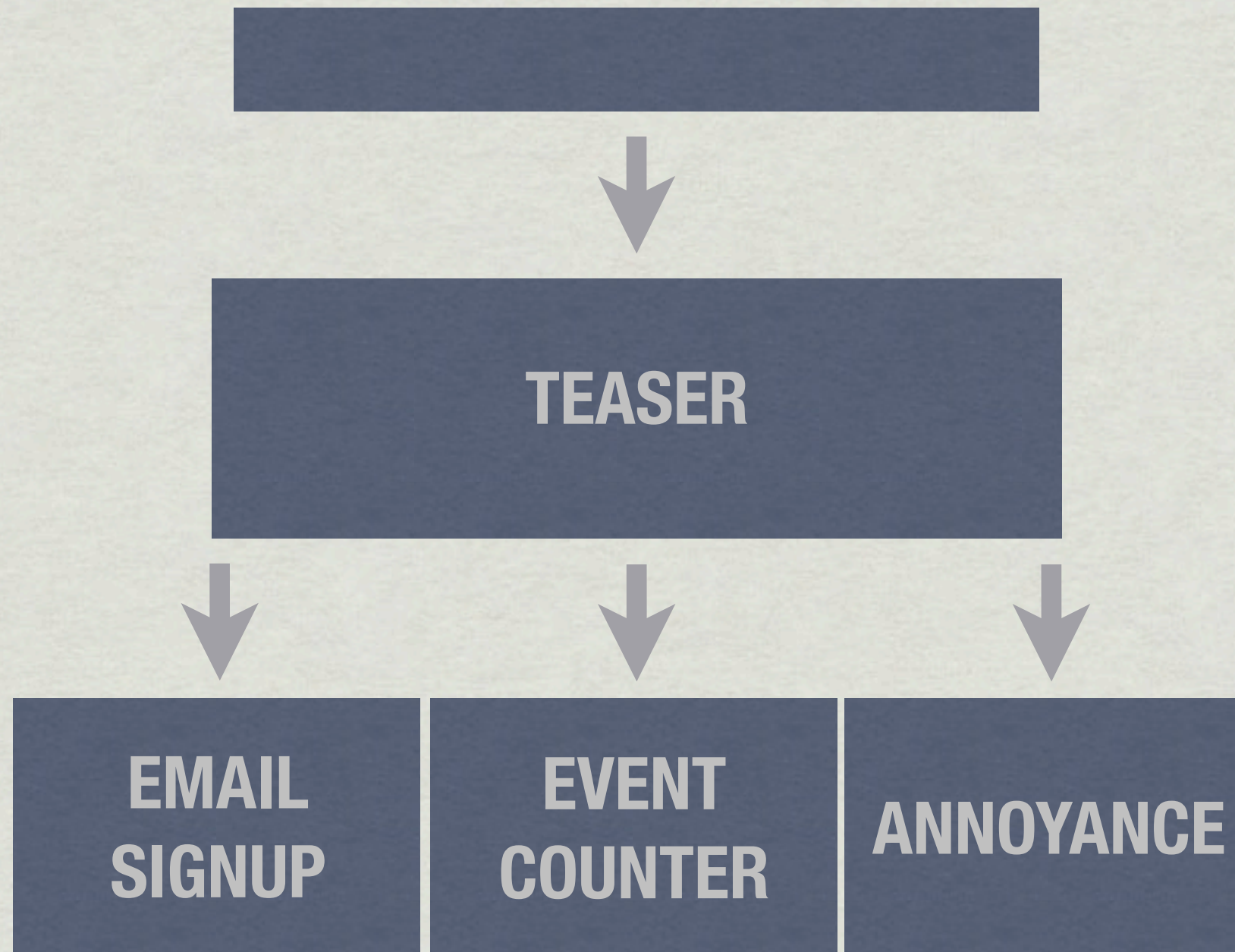
8

for this version

Owners



STRUCTURE



A large, light gray watermark consisting of two overlapping circles, resembling the letters 'O' and 'O', is centered in the background of the slide.

The HTTP SOA app



Marty Haught @mghaught

16 Mar

For those curious, we have plenty of talks submissions on 'how to split your mega rails app into services'. #railsconf

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1

RETWEET



8:00 PM - 16 Mar 13 · Details

Reply to @mghaught



Joshua Timberman @jtimberman

16 Mar

@mghaught and testing?

[Expand](#)



Marty Haught @mghaught

16 Mar

@jtimberman yep, it's funny to see different submissions for essentially the same talk. Makes narrowing it down quite the task.

[Expand](#)



Dan Hopkins @boulderDanH

17 Mar

@mghaught shows that's rails has entered the enterprise. Great news!

[Expand](#)



Marty Haught @mghaught

17 Mar

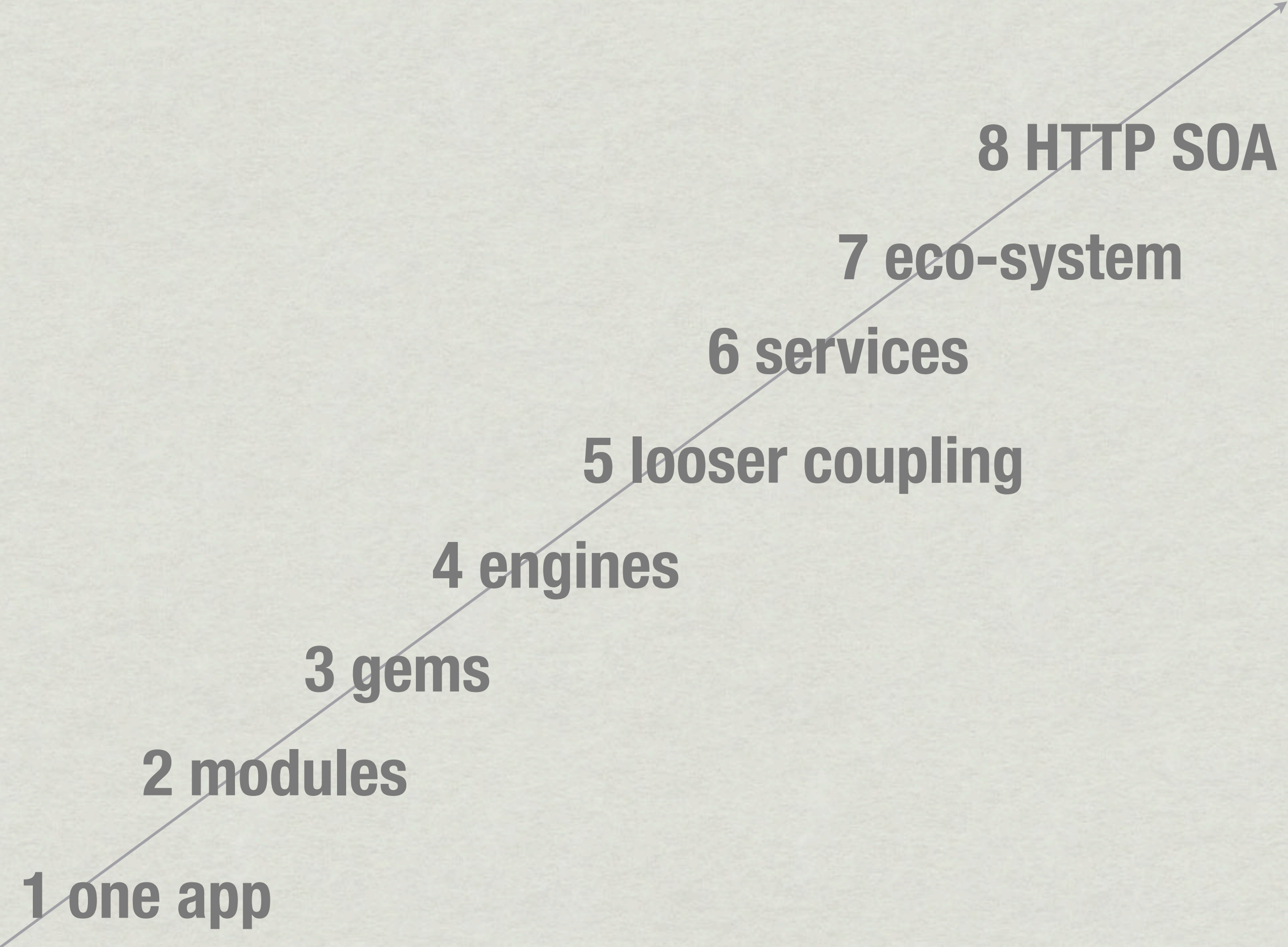
@boulderDanH it definitely has. Many submissions of enterprise

STRUCTURE



A close-up photograph of a concrete curb. The words "THE END." are carved in a simple, blocky font into the top surface of the curb. Above the curb is a wall made of reddish-brown bricks. Below the curb are several horizontal concrete steps or a drainage channel. The concrete is light grey and shows some signs of wear and discoloration.

THE END.



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3 gems

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6 services

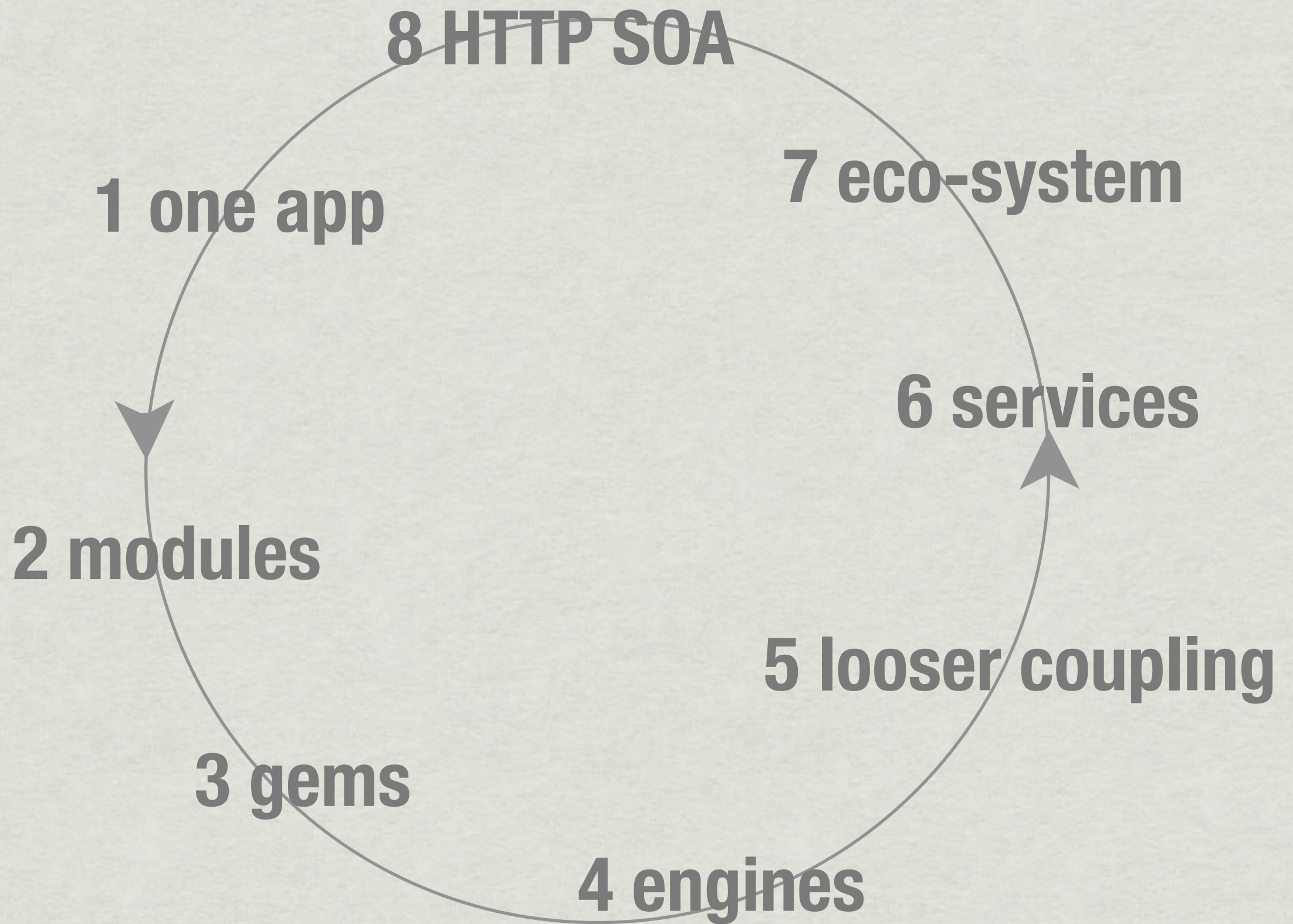
7 eco-system

8 HTTP SOA



Saturday, April 6, 13





Thanks!

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