



AN INTRODUCTION TO
SANE OPERATIONS

WHO?

- James Nugent - Hashicorp, Boundary, EventStore
- Paul Stack - BMC, OpenTable
- Zachary Schneider - BMC, Boundary, Rackspace
- Seth Paskin - BMC, Entrepreneur, DELL

ALL YOU NEED TO KNOW.

- My dog's middle name is: DevOps

AMERICAN KENNEL CLUB	
NAME	NUMBER
KLAUSE DEVOPS SCHNEIDER	RN26756109
BREED	SEX
AIREDALE TERRIER	MALE
COLOR	DATE OF BIRTH
BLACK & TAN	JUNE 3, 2014
SIRE	
C&C SIR DUKE FOR DAISY RN22105912 07-12	
DAM	
SIMPSON'S EMMA RN20640503 11-13	
BREEDER	
SHERRY CARTER	



SO, WHEN CAN I HAVE THAT?





WHY IS THIS THE STATUS QUO?

- Lack of a **CURRENT** comp-sci curriculum that marries theories and principles with **MODERN** development and operations practices
- Humans are vulnerable to **HYPE**
- Pervasive focus on **“Just Make it Work”**

WE ARE HERE TO HELP!

- This is a no **HYPE** zone
- Please be ready to think differently
- Be ready, you are not your tools, we are going to tear apart over hyped and hipster tech

CREATE A NEW AND DIFFERENT TECH COMMUNITY

- You will be exposed to (possibly) new ideas, technology, practices, and attitudes
- You will be equipped to put out the **TIRE FIRE!**



AREAS OF FOCUS

- DevOps
- HYPE
- Sane Architecture / Design



DEVOPS: WHAT IS IT?

- What is DevOps About?
- **QUALITY PRODUCT**
- You write it. You run it. You are on call.
- Everything else is a distraction (tools, delivery, etc)

DEVOPS: VISUAL REFERENCE

RESPONSIBILITY



PRODUCT

THE ROLE OF OPERATIONS

The background of the slide is a dramatic photograph of an offshore oil rig engulfed in a massive fire. Thick black smoke billows from the top of the inferno. Several fireboats are positioned around the base of the rig, directing powerful jets of water onto the burning structure. The scene is set at night or in low light, emphasizing the intensity of the fire.

- No such thing as a **DevOps Engineer**
- Provide and maintain an environment where work can be easily accomplished
- Performance Engineering and Capacity Planning
- Contributing code relating to operability, as well as adding platform features including product features
- Submitting pull requests for broken things, yes yours too

HYPE: TECH IS AKIN TO FASHION

The background image is a dramatic scene of an oil rig engulfed in a massive fire. A large, billowing plume of black smoke rises from the center of the inferno. Several fireboats are positioned around the burning rig, directing powerful jets of water onto the flames from multiple angles. The scene is set at night or in low light, with the fire providing the primary illumination.

- IT'S THE **FUTURE!!!**
- Do you remember?
 - SOAP Web Services
 - Rich Internet Applications
 - CORBA
 - Java Applets
 - OSGI
 - OpenStack / Private Cloud
 - Silverlight
 - Windows

HYPE: THIS YEAR'S INSANITY

- IOT
- Docker
- UniKernels
- Cloud Native
- Micro Services



HYPE: NOT WELCOME

- Popularity does not equal **MERIT**
- The adoption of **HIPSTER TECH** will always result in a **TIRE FIRE**
- Why? Because the foundations of Hipster Tech are not rooted in research and the analysis of prior art

ARCHITECTURE & DESIGN: THE AGE OF SOFTWARE ASSEMBLY

- You can't expect to be able to toss a bunch of components together and have a solution to emerge
- This is akin to showing up to a garbage dump and expecting to be able to assemble a **Rolls Royce**

ARCHITECTURE & DESIGN: THE RESULT OF SOFTWARE ASSEMBLY

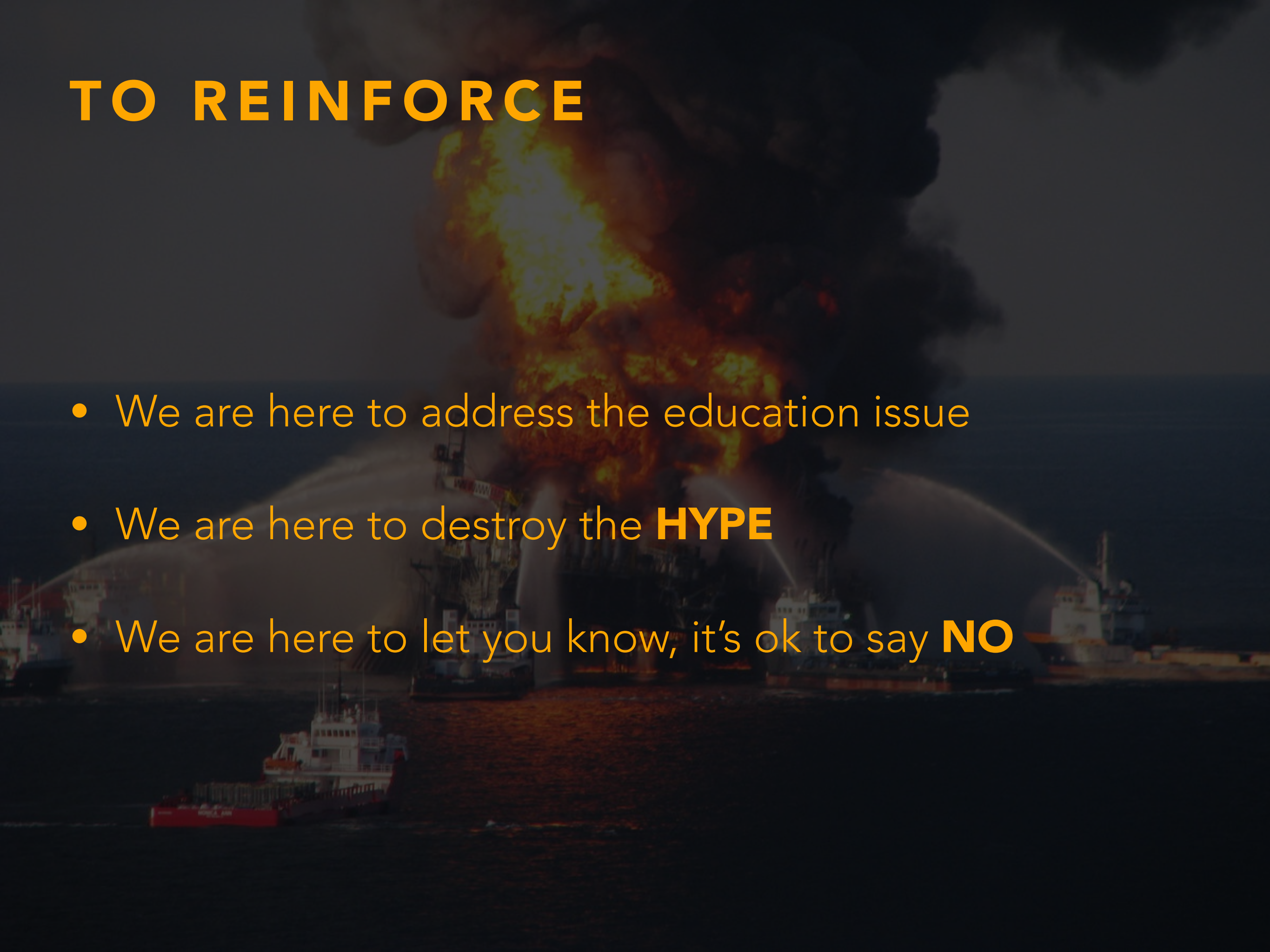
- If you do show up to a garbage dump to do assembly you are going to get what one would expect!
- More **GARBAGE!**
- You are also going to end up with a talent acquisition problem
- Who wants to work in a garbage dump?
 - People who are **OK** with **GARBAGE**

ARCHITECTURE & DESIGN: THE PRINCIPLES

- Great architecture is rooted in these **FUNDAMENTAL** principles:
 - Separation of Concerns
 - Single Responsibility Principle
 - Principle of Least Knowledge
 - Composition
- Violating these principles will result in a **TIRE FIRE**

TO REINFORCE

- We are here to address the education issue
- We are here to destroy the **HYPE**
- We are here to let you know, it's ok to say **NO**



Z, DO THE PULSE DEMO

- Why is Pulse important to this community?



HOW ONE WEIRD GRAPH THEORY TRICK WILL IMPROVE YOUR INFRASTRUCTURE PROVISIONING.

- James Nugent

