

# PERFORMANCE

## IN MODERN TIMES

*An Evolutionary Journey*



40TH ANNUAL  
PACIFIC NW SOFTWARE  
QUALITY  
CONFERENCE  
OCT. 10-12, 2022



# WHO ME?

K6 DEVREL



BLOG

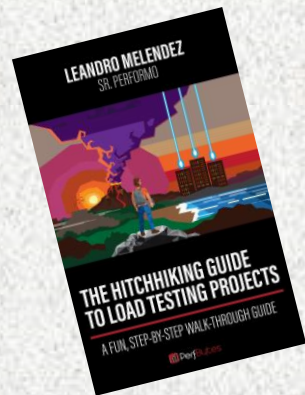


YOUTUBE



PODCAST

BOOK



THANK

YOU!

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PACIFIC NW SOFTWARE  
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CONFERENCE  
OCT. 10-12, 2022





THE MENU

WTF?

CHALLENGE

EVOLVE!

WHAT THE

PERF

?





# DEFINITION

## PERFORMANCE TESTING

VERIFY & VALIDATE

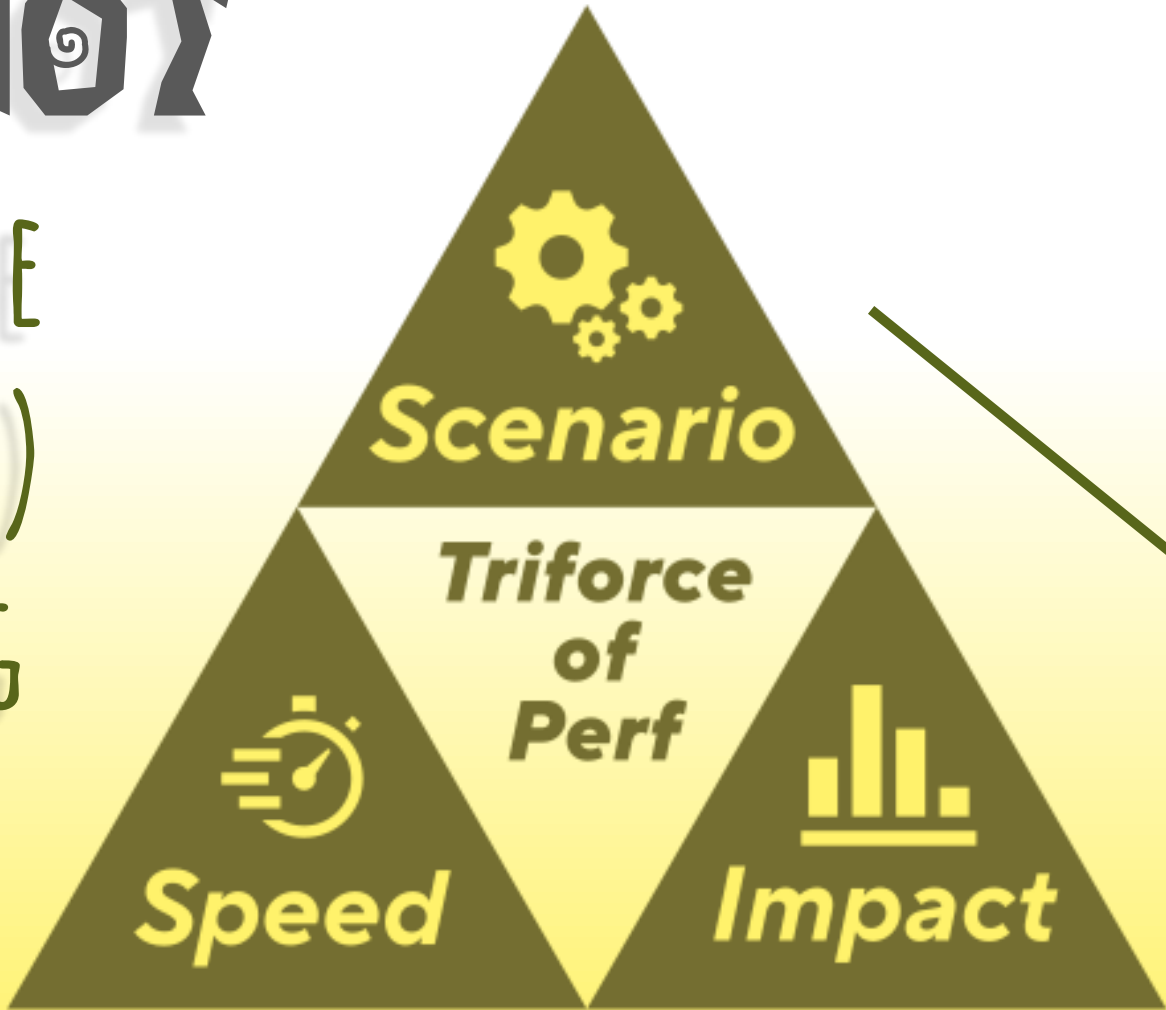
1- SPEED (TIME)

2- EFFICIENCY (RESOURCES)

3- SITUATION (SCENARIO)

# IT'S NOT

PERFORMANCE  
IS NOT (JUST)  
LOAD TESTING



ONE  
NONE  
SOME  
OK... MANY

# WHAT FOR PERF?

KEEP USERS AT MAX!

- CLIENTS & EMPLOYEES
- SALES & PRODUCTIVITY
- AVAILABILITY (SRE)







# MODERN GOALS

ASSURE GREAT:

- RESPONSE TIMES
- EFFICIENT AND STABLE
- IN ALL SITUATIONS

CONTINUO!





# ANCIENT PERF TEST

JUST LOAD

JUST BEFORE RELEASE

MULTIPLE STEP TESTS

ON THE FRONT END

FREEZE ENVIS

TESTER TESTS & AUT

HUGE SCENARIOS

HEAVY / SLOW TEST SW



# ANCIENT PERF TEST2

SILVER BULLET SW  
RESULTS STUCK IN SW  
ONLY QA CAN DO  
AFTER DEV

MONITOR?  
BLACKBOX EVERYTHING  
MUCH MORE...





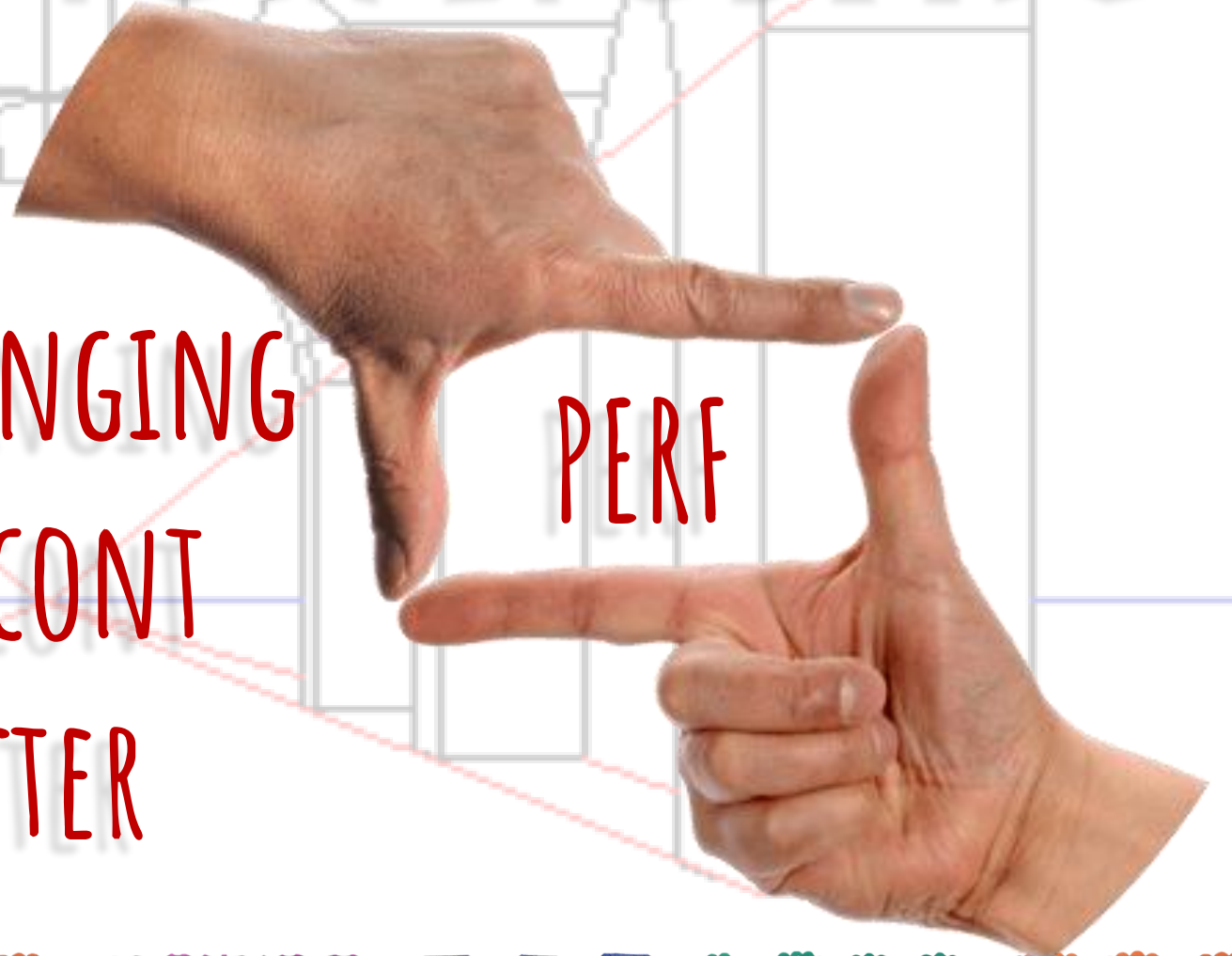
# CHANGE PERSPECTIVE

RELEVANT & TINY

CONTINUOUSLY CHANGING

VERIFY & VALIDATE CONT

BEFORE, DURING, AFTER



ENTER

MODERN

PERFORMANCE





# WARNING!

PERFORMANCE NOT LOAD

GET IT OUT'A MIND!

MUCH MORE TO PERFORMANCE

# RENAISSANCE PEOPLE

NETWROKING

CODING(DEV)

SCRIPTING

INFRASTRUCTURE

PIPELINES CI/CD

PROTOCOLS

MUCH MORE...





# CHARRO VS MARIACHIS

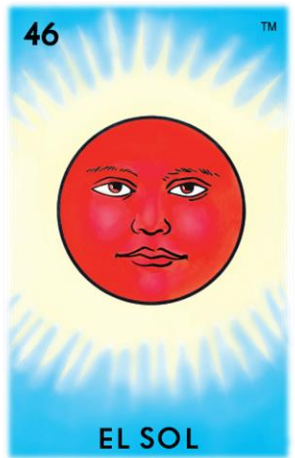


DEVS VS TESTERS  
OR  
TEAMS





# EARLY WAKEY WAKEY!



PERFORMANCE BEFORE START

TOOLS, PRACTICES, STANDARDS

PERFORMANCE EVERY MORNING

MEASUREMENTS, TESTS, INTEGRATIONS





# INTEGRATED OBSERV

INSTRUMENTATION

TELEMETRY

MONITORING

SYNTHETICS





# GRADUAL INCREASE

NEVER STRAIGHT TO LOAD!!!!

1 PROCESS ALONE

1 CONCURRENT PROCESS

DIFFERENTE PROCESSES

LOAD! ... .. MAYBE...



# DEVELOPER POWER!

QA/PERFORMERS DEFINE

WHOEVER MAKES/CHANGES/BREAKS CODE  
AUTOMATES! INTEGRATES! MAINTAINS!





# DEV COOK N TEST!

DEV AUTOMATES

DEV EXECUTES

DEV TESTS





# TURN RIGHT TOO!

TEST IN PRODUCTION PLEASE!

- SYNTHETICS
- BLUE/GREEN
- A-B
- BETA TESTERS
- MANUAL LOAD!
- SRE





THEN...

HOW TO

MODERN PERF?



# DAY ~\ DEFINE

TOOLS, PROCESSES, PRINCIPLES, INFRA, ETC







# CHANGE YOUR WAYS



DIFFERENT AUTOMATIONS

NO MORE E2E OR FRONT END

ENTER SERVICE WORLD

INTEGRABLE TO PIPELINE

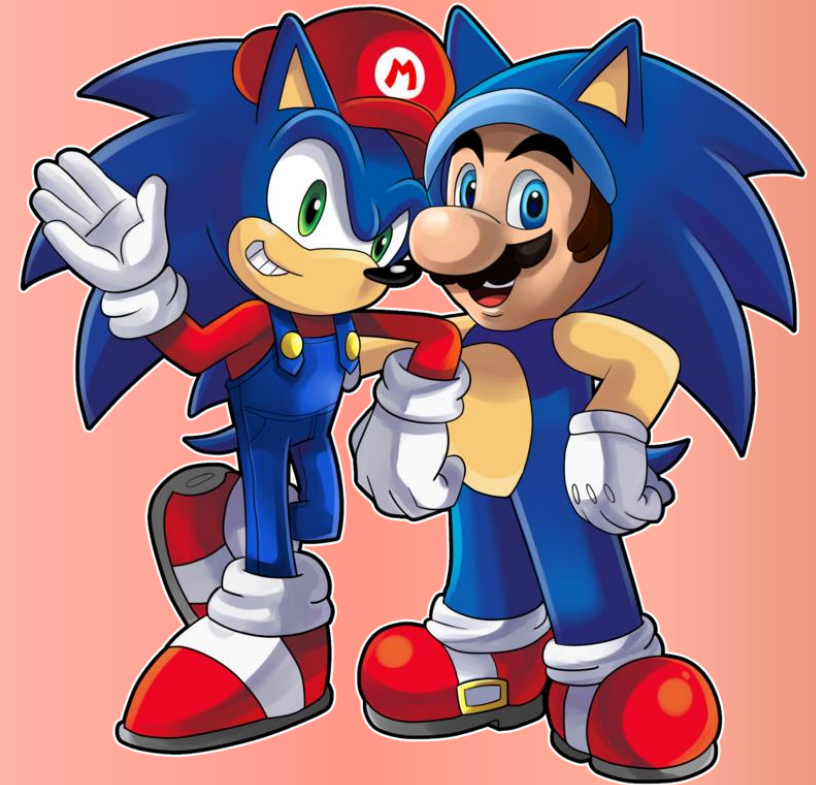
MODULAR!



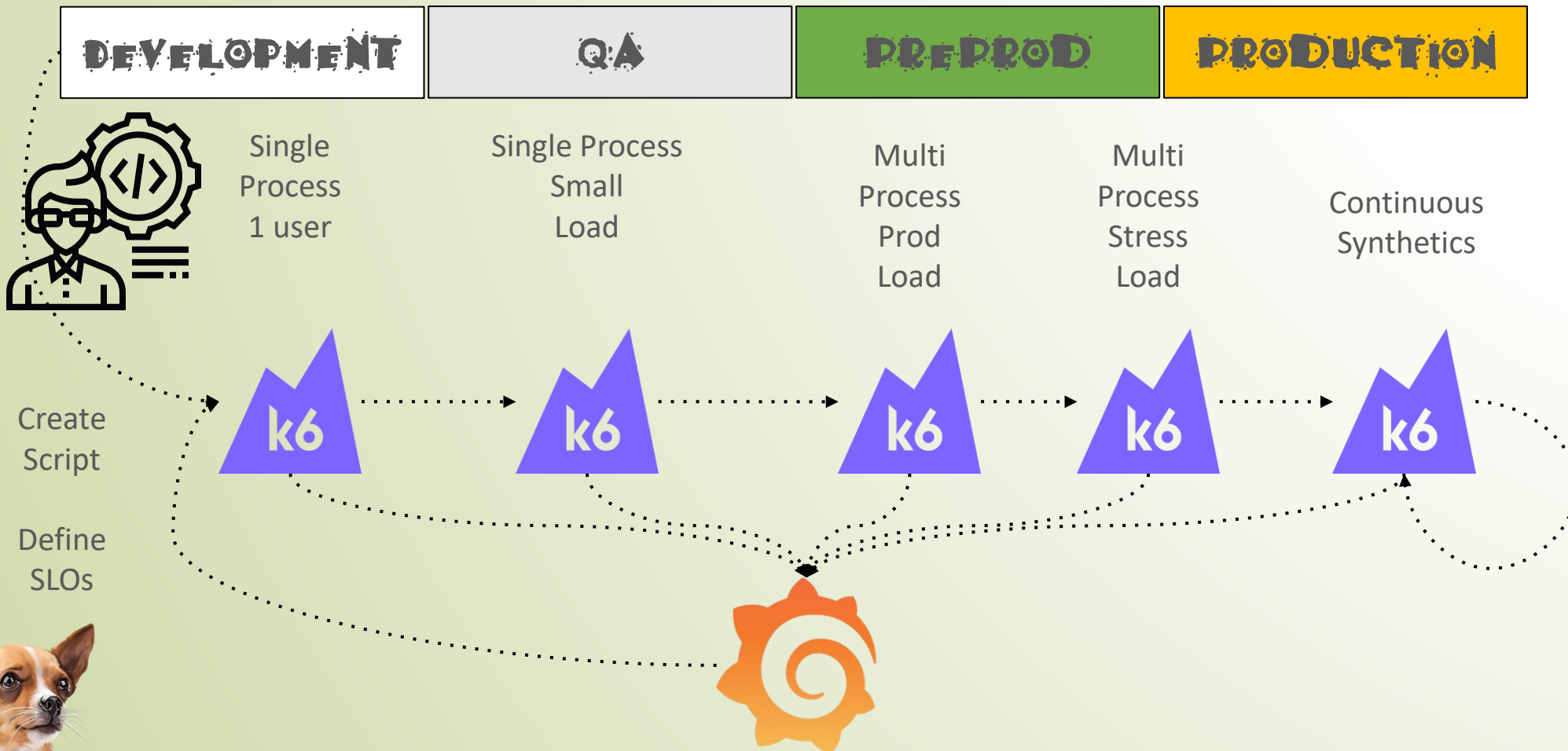
# AND THE BROWSER?



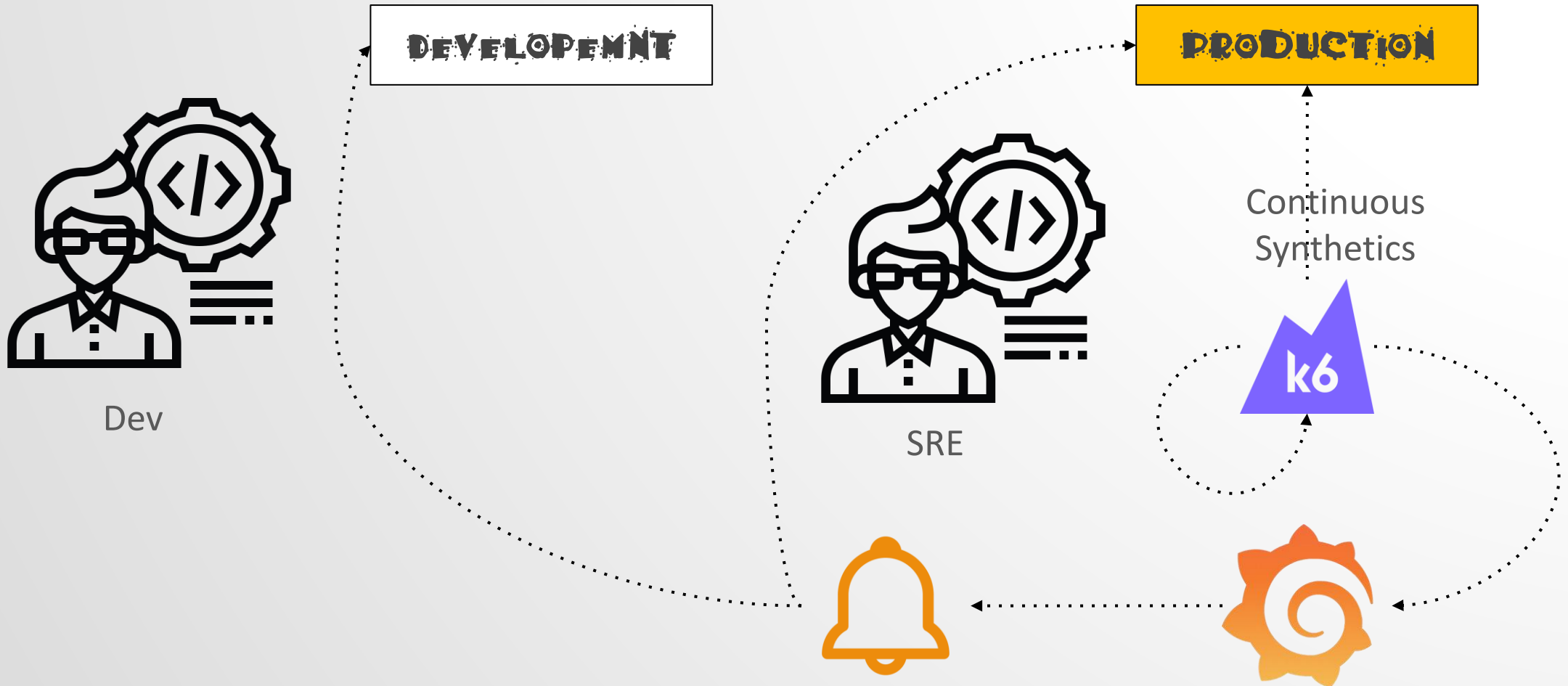
BEWARE! NOT FOR LOAD  
COMBINE WITH HTTP LOAD  
IMPLEMENT RUM  
ASSURE WEB PERF



# ON EVERY SPRINT



# ON YOUR RIGHT!



# SOME LOAD TESTING

RARELY HAPPENS

SMALL LOAD TESTS

CLOUD AND DISTRIBUTED?

OTHER TECHNIQUES

ONLY WHEN NECESSARY!

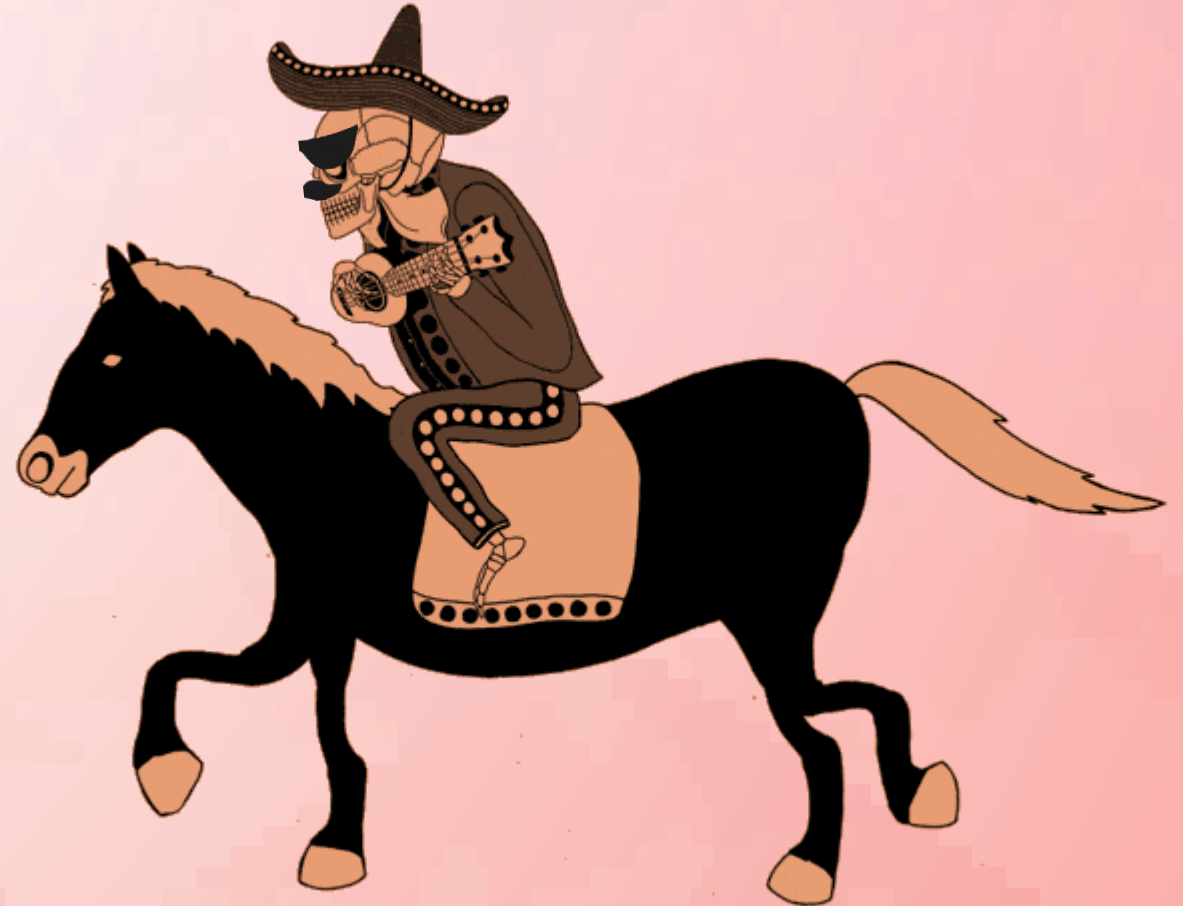


# VAMONOS!

@SRPERF

LEANDRO

MELENDEZ



THANK

YOU!



Q

Z

A



???