SOFTWARE VISUALIZATIONS

For Fun and Profit

Code Freeze 2017
McNamara Alumni Center, MN
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Definition of visualization

1. formation of mental visual images

2. the act or process of interpreting in visual terms or of putting into visible form

3. the process of making an internal organ or part visible by the introduction (as by swallowing) of a radiopaque substance followed by radiography

See visualization defined for kids

See words that rhyme with visualization
Why Visualization?
7 Of The Most Frighteningly Bizarre Ocean Creatures

By Captain Tarek
A Thought Experiment...
Data Exhaust
Data Exhaust
Data Exhaust
How Often?

Laptop Blues
How Often?

Duration?

Laptop Blues
How Often?

Duration?

Configuration?

Laptop Blues
Oops! I Forgot
Oops! I Forgot

Change History?
Results

~/code/efficient (master) $ git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
# # modified:  coefficient-core/pom.xml
# # new file:   coefficient-core/src/main/java/com/example/RowMapper.java
# # new file:   coefficient-core/src/main/java/com/example/ThreadManager.java
# # Recommendations:
# #   - Other developers who changed 'coefficient-core/src/main/java/com/example/ThreadManager.java'
# #     also changed 'coefficient-core/src/main/resources/thread-manager.properties'
# ~/code/efficient (master) $
Where are the bugs?
Where are the bugs?
Where are the bugs?

Comments?
Where are the bugs?

Comments?

Ticket Tracking?
Where are the bugs?

Comments?

Ticket Tracking?

Code History?
Long Test Runs?
Long Test Runs?
Long Test Runs?

Test Duration?
Long Test Runs?

Test Duration?

Brittle Tests?
Long Test Runs?

Test Duration?

False Positives?

Brittle Tests?
Results

- LearnerReceivesCertificate [Brittle, Slow]
- InstructorLaunchILT [Brittle]
- AdministratorLearningPlanProgressReport [Slow]
- AdministratorSearchForCannedContent [Brittle]
- LearnerTextSearch [Slow]
- AdministratorAutoAssignmentOfGroups [Slow]
- AdministratorAutoAssignmentOfCourses [Slow]
- AdministratorAddUser
Can We Increase Velocity?
Can We Increase Velocity?
Can We Increase Velocity?

Personal Capacity?
Can We Increase Velocity?

Interruptions?

Personal Capacity?
Can We Increase Velocity?

- Meetings?
- Interruptions?
- Personal Capacity?
Results
Regression Testing?
Regression Testing?
Regression Testing?

Defect Density?
Results
Others... Yours?
~/code/coefficient (master) $ git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#   modified:   coefficient-core/pom.xml
#   new file:   coefficient-core/src/main/java/com/example/RowMapper.java
#   new file:   coefficient-core/src/main/java/com/example/ThreadManager.java
# Recommendations:
#   - Other developers who changed 'coefficient-core/src/main/java/com/example/ThreadManager.java'
#     also changed 'coefficient-core/src/main/resources/thread-manager.properties'
~/code/coefficient (master) $
~/code/koeficient (master) $ git status
# On branch master
# Changes to be committed:
# (use "git reset HEAD <file>..." to unstage)
#
# modified: coefficient-core/pom.xml
# new file: coefficient-core/src/main/java/com/example/RowMapper.java
# new file: coefficient-core/src/main/java/com/example/ThreadManager.java

# Recommendations:
# - Other developers who changed 'coefficient-core/src/main/java/com/example/ThreadManager.java'
# also changed 'coefficient-core/src/main/resources/thread-manager.properties'

~/code/koeficient (master) $
Learner Receives Certificate [Brittle, Slow]
Instructor Launches ILT [Brittle]
Administrator Learning Plan Progress Report [Slow]
Administrator Search For Canned Content [Brittle]
Learner Text Search [Slow]
Administrator Auto Assignment Of Groups [Slow]
Administrator Auto Assignment Of Courses [Slow]
Administrator Add User
Learn To Spot & Leverage Data Exhaust
Visualize It To Take Your Teams To The Next Level
Want something useful to take back to the office?

Presentations these days are full of pictures and not any words. That’s great for when you’re at the conference taking in the information in person, but they just don’t translate when you come back and explain it to your team.

That’s why we’ve created a shareable version of this presentation, it contains all of the content from the live presentation, but in a more digestible format for taking offline and reviewing and sharing with your colleagues. All you’ve got to do is go to e-mail us at presentation@leantechiniques.co. Once we’ve received your e-mail, you’ll receive the sharable version and any updates we make to the presentation moving forward.

Thanks for attending and let us know how you’ve leveraged data exhaust to improve your overall software delivery performance.

Thanks!
Brandon