



Review Data Analyzer

A Web-based Visualization Tool for Analyzing Modern Code Review Dataset



Patanamon Thongtanunam

Xin Yang, Norihiro Yoshida, Raula Gaikovina Kula,
Ana Erika Camargo Cruz, Kenji Fujiwara, Hajimu Iida



Modern Code Review is a tool-based, and occurs regularly in practice nowadays at companies and OSS projects [Bacchelli et. al.]

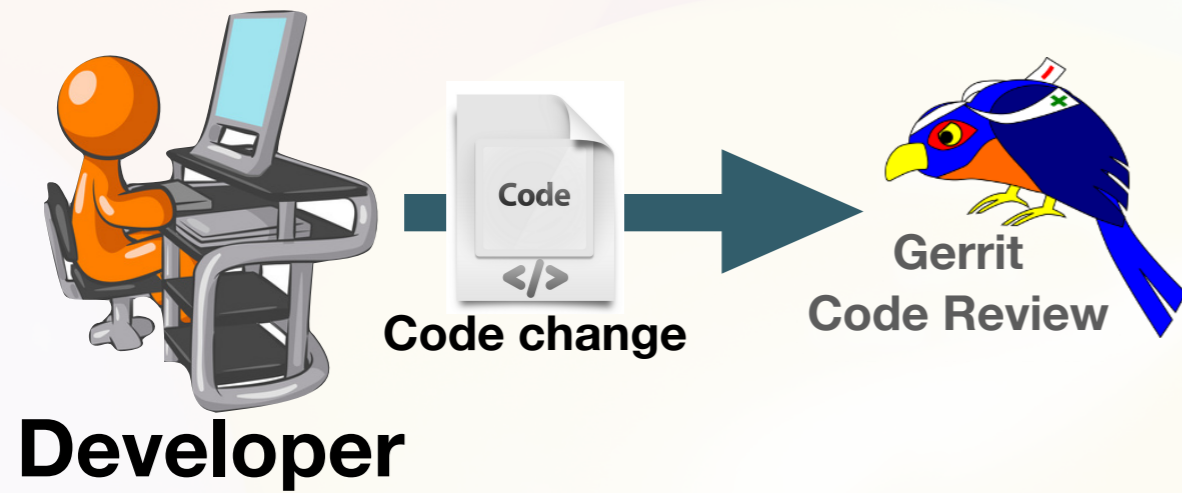


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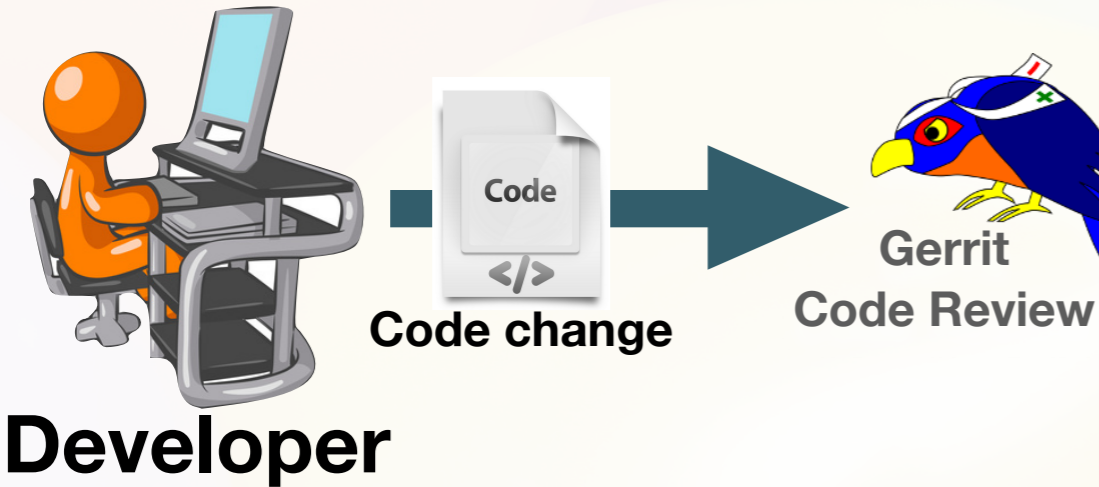


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Change-Id: I8b950220f7cc52fefaed2ee37d97e0789b40a078

Owner: Alistair Buxton

Project: platform/system/core

Branch: master

Topic:

Uploaded: Mar 2, 2013 6:30 AM

Updated: Nov 12, 2013 1:00 PM

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Reviewer	Code-Review	Verified
Colin Cross		
Horacio Spinelli	+1	
Deckard Autoverifier		✓

• Need Code-Review

► **Dependencies**

Reference Version: Base

▼ **Patch Set 1** 024965c5d1ab1150ddc0ea9589eed5e012181c31 (gitiles)

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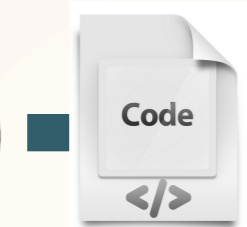
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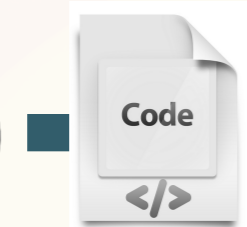
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Uploaded: Mar 2, 2013 6:30 AM

Updated: Nov 12, 2013 1:00 PM

Submit Type: Always Merge

Status: Review in Progress

Commit Message Permalink

Disable CR/LF translation for adb interactive shell.

adb shell uses termios to disable canonical input processing in order to get raw control codes but it does not disable CR/LF translation. The default for Linux terminals is to convert CR to LF unless the running program specifically asks for this to be disabled. Since adb does not, there is no way to send a CR to any program run on adb shell. Many programs do in fact differentiate and so are broken by this behaviour, notably nano. This patch sets the termios flags to disable all line ending translation.

Change-Id: I8b950220f7cc52fefaed2ee37d97e0789b40a078
Signed-off-by: Alistair Buxton <a.j.buxton@gmail.com>

Reviewer	Code-Review	Verified
Colin Cross		
Horacio Spinelli	+1	
Deckard Autoverifier		✓

• Need Code-Review

Name or Email or Group

► **Dependencies**

Reference Version: Base

▼ **Patch Set 1** 024965c5d1ab1150ddc0ea9589eed5e012181c31 (gitiles)

Author	Alistair Buxton <a.j.buxton@gmail.com> Mar 2, 2013 6:16 AM
Committer	Alistair Buxton <a.j.buxton@gmail.com> Mar 2, 2013 6:16 AM
Parent(s)	cc4499b6fa9ad4cbe285d78754edcb6dd30ab893 Merge "adb: use correct header file."
Download	repo download checkout pull cherry-pick
	repo download platform/system/core 52640/1

Review

	File Path	Comments	Size	Diff	Reviewed
►	Commit Message			Side-by-Side Unified	
M	adb/commandline.c		+1, -0	Side-by-Side Unified	
			+1, -0	All Side-by-Side All Unified	

Comments Expand Recent | Expand All | Collapse All

Deckard Autoverifier Patch Set 1: Verified+1 This is an automated message from the Deckard ... Mar 3, 2013

Deckard Autoverifier Patch Set 1: -Verified This is an automated message from the Deckard ... Sep 5 10:51 PM

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Horacio Spinelli Patch Set 1: 1:00 PM

Patch Set 1:

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Modern Code Review

New & Rich source

Code Quality

Popular

ANDROID
Browse Repositories

open source project

Change-Id: I8b950220f7cc52fefaed2ee37d97e0789b40a078

Owner: Alistair Buxton

Project: platform/system/core

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Download: [repo download](#) | [checkout](#) | [pull](#) | [cherry-pick](#)

[repo download platform/system/core 52640/1](#)

	File Path	Comments	Size	Diff	Reviewed
▶	Commit Message			Side-by-Side Unified	
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Comments [Expand Recent](#) | [Expand All](#) | [Collapse All](#)

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open source project

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Owner: Alistair Buxton

Project: [🔍 platform/system/core](#)

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Topic:

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★ **Commit Message** [Permalink](#) [📄](#)

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Download	repo download checkout pull cherry-pick
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Comments [Expand Recent](#) | [Expand All](#) | [Collapse All](#)

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Reliable?

“Publicly available data from support tools is a rich source on mining, various potential perils should also be taken into consideration.”
[Kalliamvakou et. al.]

ANDROID open source project Browse Repositories 

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“Publicly available code is a double-edged sword. It offers the opportunity for peer review, but it also offers the opportunity for malicious actors to exploit vulnerabilities. Consideration.” [Kou et. al.]

Can we easily find a characteristic in the dataset?

ANDROID open source project

Change-Id: I8b950220f7cc52fefaed2ee37d97e0789b40a078

Owner: Alistair Buxton

Project: platform/system/core

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Name or Email or Group:

2013 6:16 AM

Mar 2, 2013 6:16 AM

Merge "adb: use correct header file."

download | checkout | pull | cherry-pick

repo download platform/system/core 52640/1

File Path	Comments	Size	Diff	Reviewed
Commit Message			Side-by-Side	Unified
M adb/commandline.c		+1, -0	Side-by-Side	Unified
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Review | Cherry Pick To

Expand Recent | Expand All | Collapse All

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Add Comment



ReDA is for facilitating researchers

Review Data Analyzer





ReDA is for facilitating researchers
Review Data Analyzer

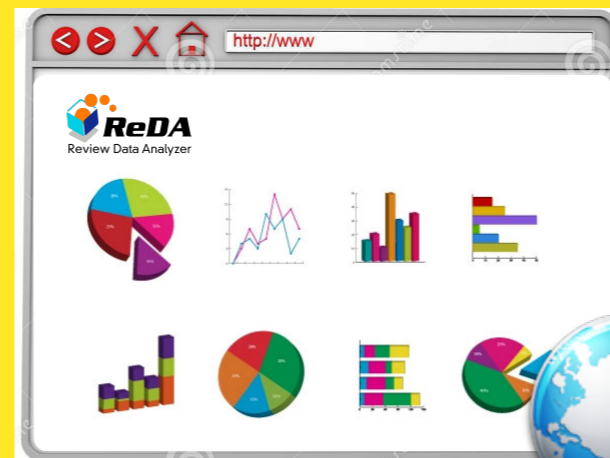
Extracting a dataset





ReDA is for facilitating researchers
Review Data Analyzer

Extracting a dataset

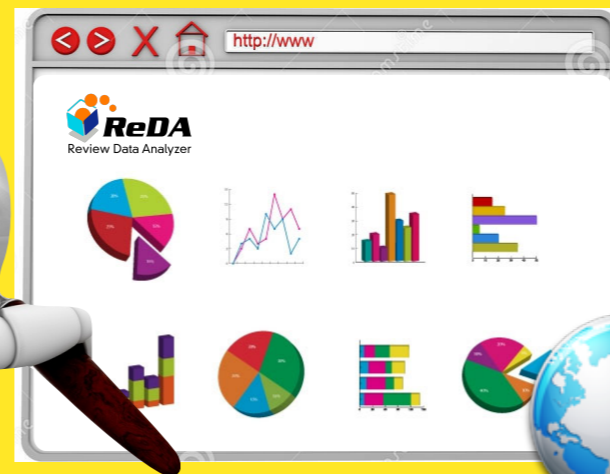


Showing basic
statistical summary



ReDA is for facilitating researchers
Review Data Analyzer

Extracting a dataset



Showing basic
statistical summary

Observing
interesting patterns
& Identify problems





ReDA provides three visualizations

Review Data Analyzer

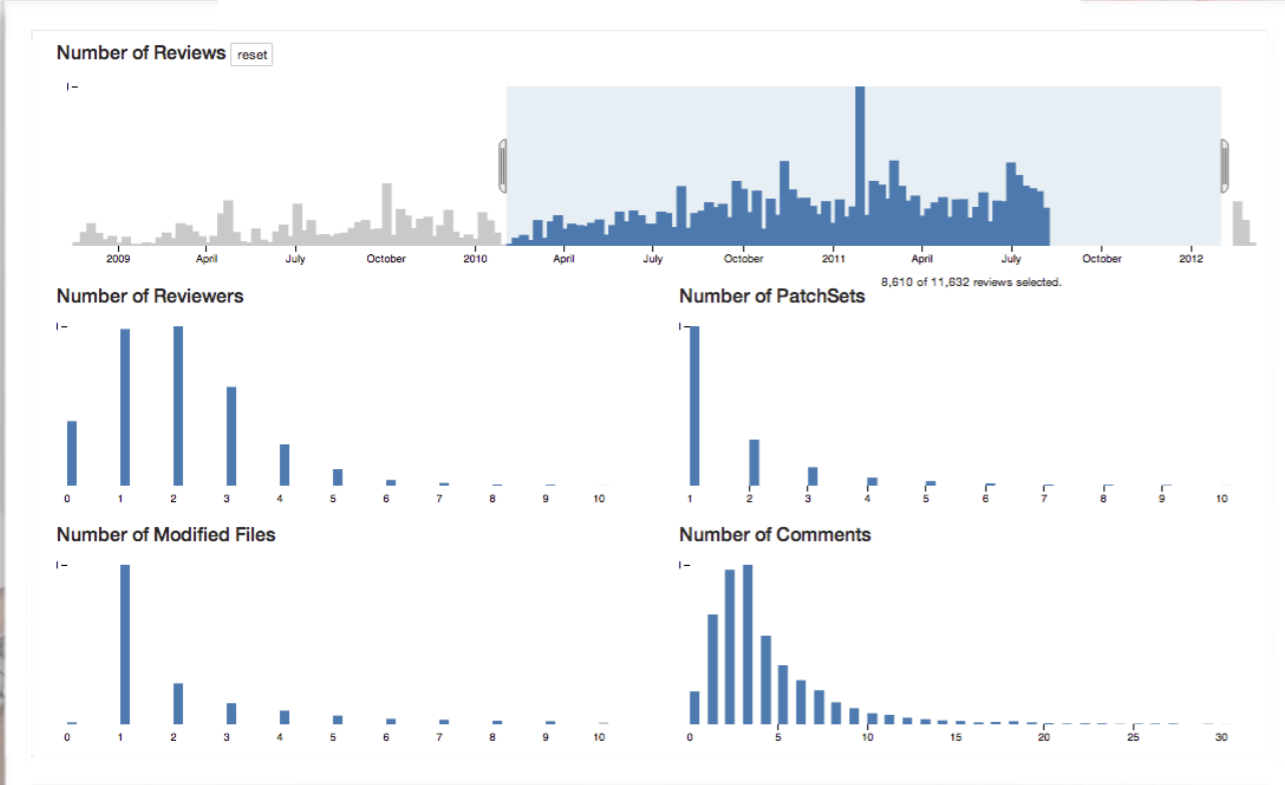




ReDA provides three visualizations

Review Data Analyzer

Review Statistic

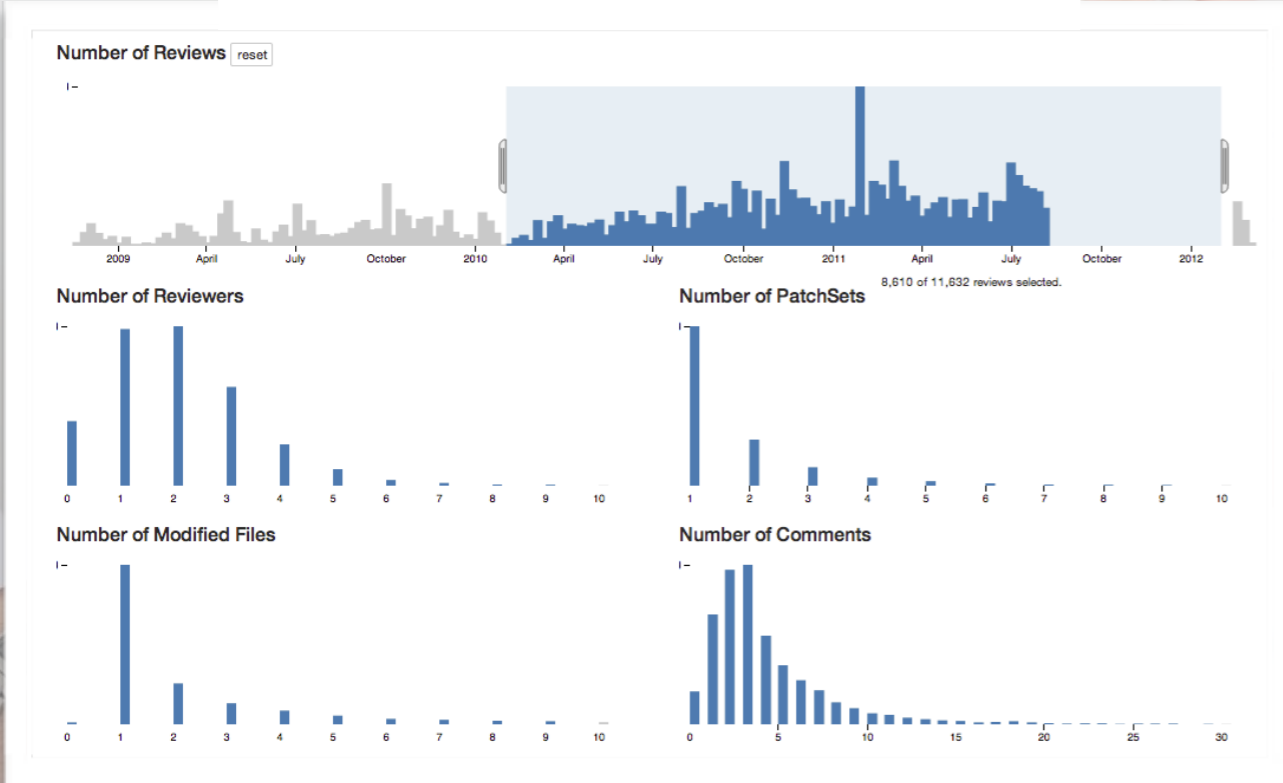




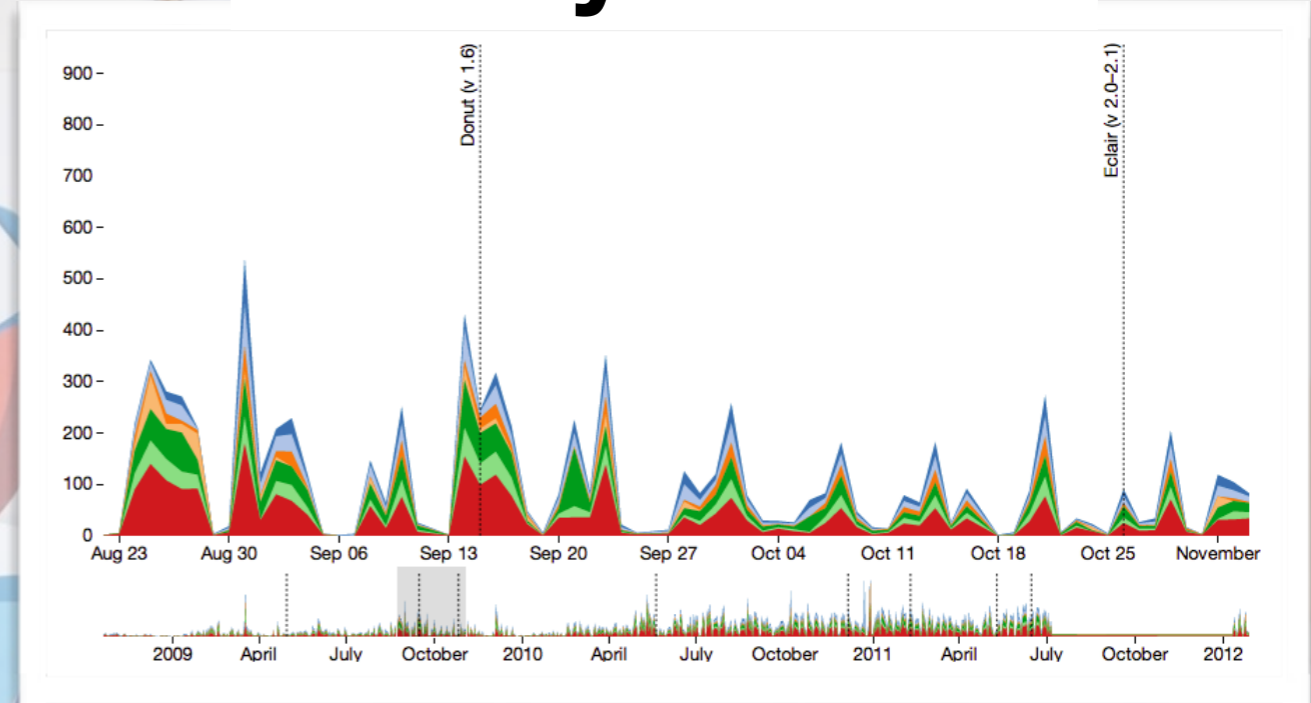
ReDA provides three visualizations

Review Data Analyzer

Review Statistic



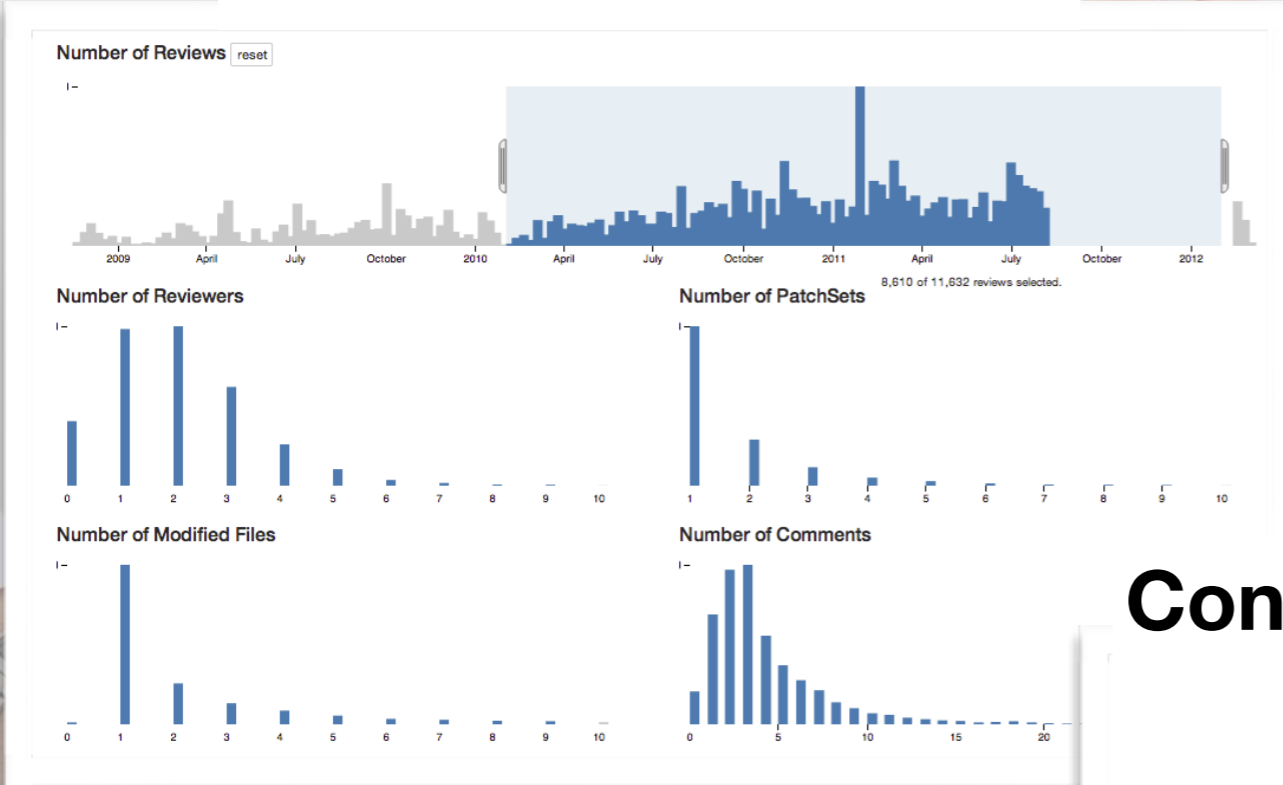
Activity Statistic



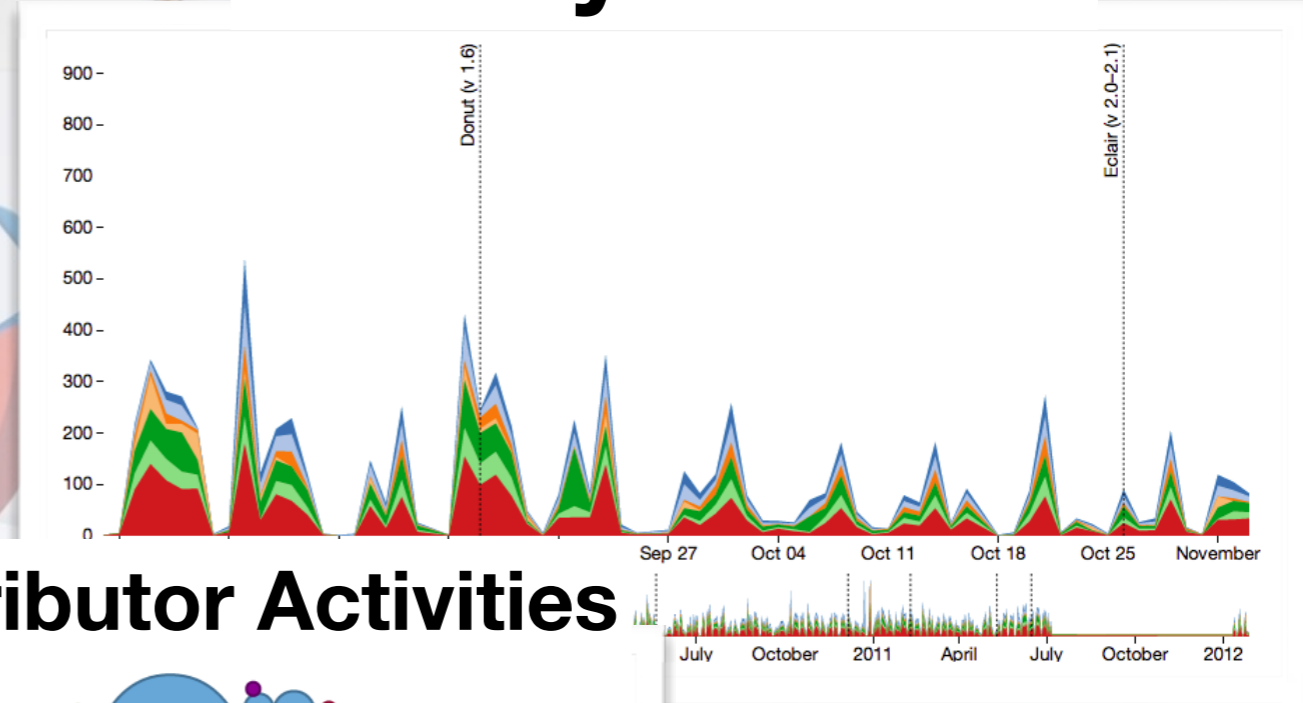


ReDA provides three visualizations
Review Data Analyzer

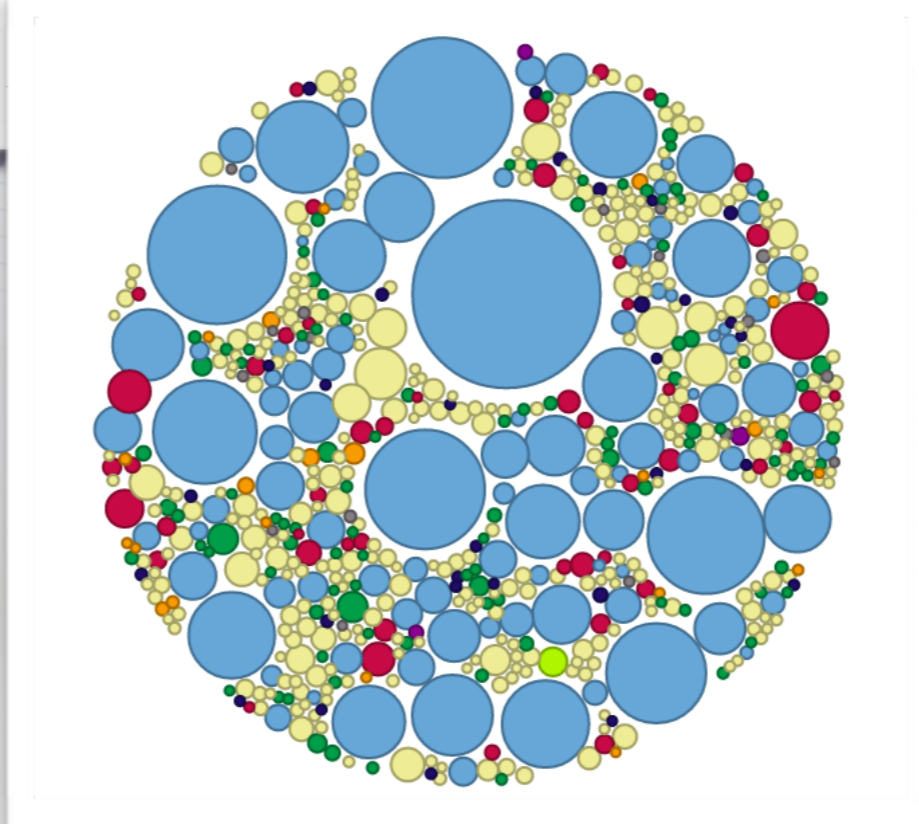
Review Statistic



Activity Statistic

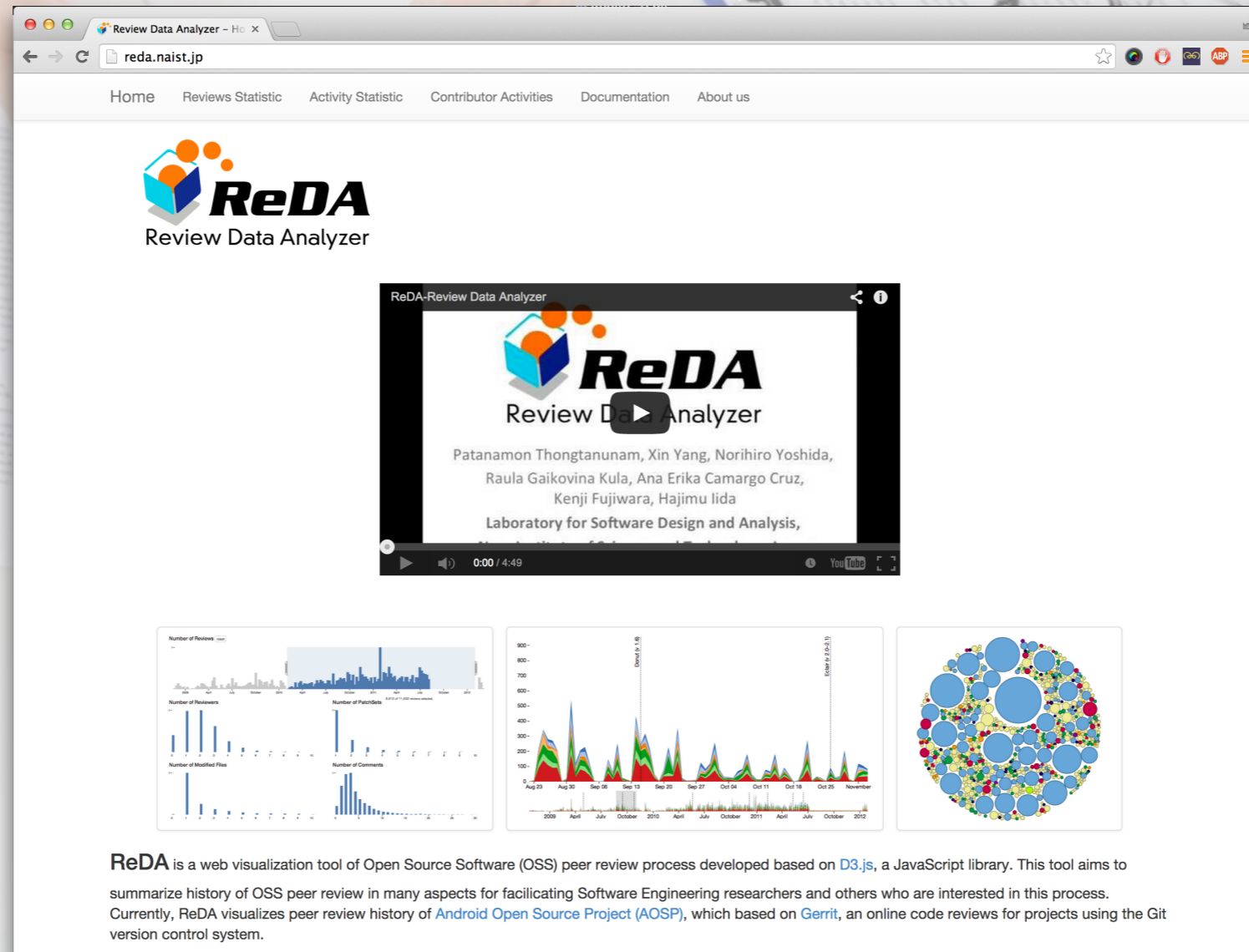


Contributor Activities



Demo

<http://reda.naist.jp>



The screenshot displays the ReDA (Review Data Analyzer) website. At the top, there is a navigation menu with links for Home, Reviews Statistic, Activity Statistic, Contributor Activities, Documentation, and About us. Below the menu is the ReDA logo, which consists of a stylized blue and orange cube icon followed by the text "ReDA Review Data Analyzer".

In the center of the page is a video player showing a video titled "ReDA-Review Data Analyzer". The video content includes the ReDA logo and the following text: "Patanamon Thongtanunam, Xin Yang, Norihiro Yoshida, Raula Gaikovina Kula, Ana Erika Camargo Cruz, Kenji Fujiwara, Hajimu Iida, Laboratory for Software Design and Analysis". The video player shows a progress bar at 0:00 / 4:49.

Below the video player are three data visualization charts:

- A bar chart titled "Number of Reviews" showing the number of reviews over time.
- A line chart showing the number of reviews over time, with a legend indicating different categories.
- A bubble chart showing the distribution of reviews across different categories.

At the bottom of the page, there is a paragraph of text:

ReDA is a web visualization tool of Open Source Software (OSS) peer review process developed based on D3.js, a JavaScript library. This tool aims to summarize history of OSS peer review in many aspects for facilitating Software Engineering researchers and others who are interested in this process. Currently, ReDA visualizes peer review history of [Android Open Source Project \(AOSP\)](#), which based on [Gerrit](#), an online code reviews for projects using the Git version control system.

Android Open Source Software Project (AOSP) dataset

* Data was captured from October 2008 to January 2012





Example Findings

Android Open Source Software Project (AOSP) dataset

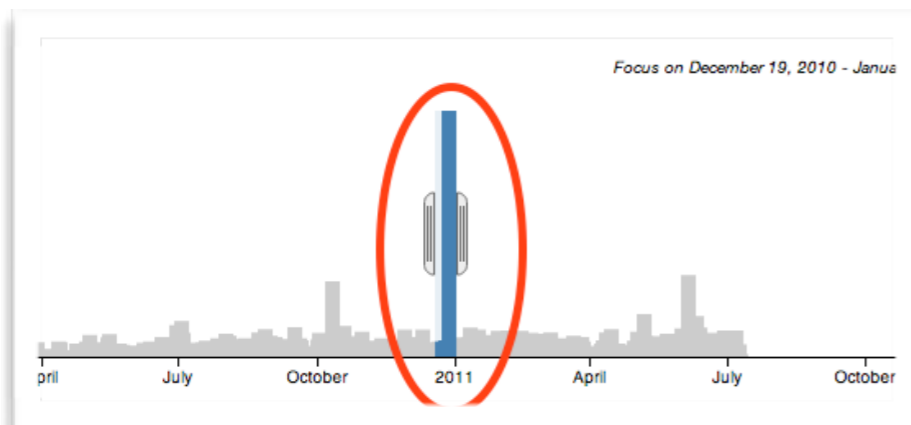


Data Observation using

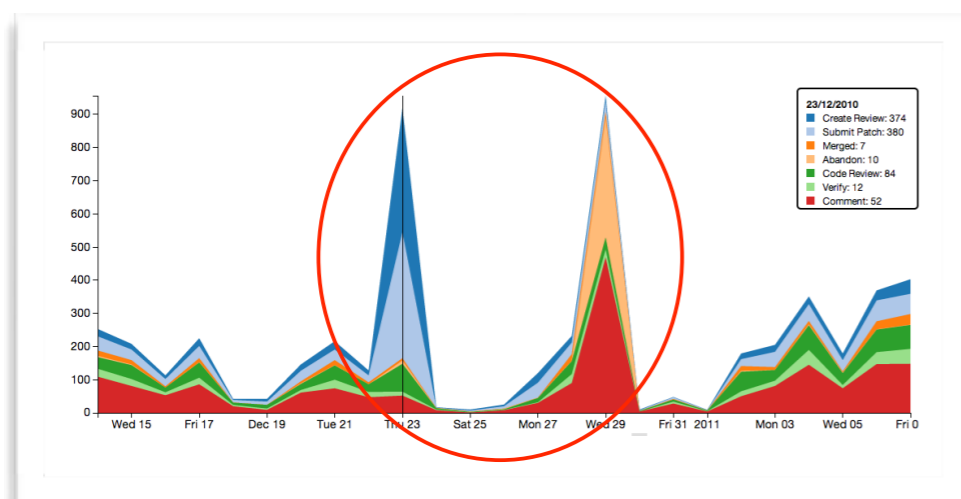


#1

Unusual Peaks in Graphs

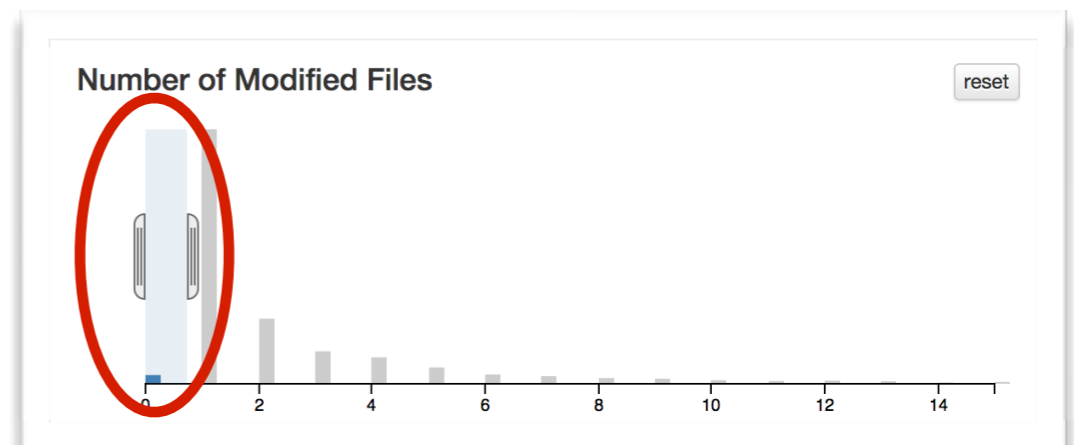


Review Statistic



Activity Statistic

Reviews without code changes



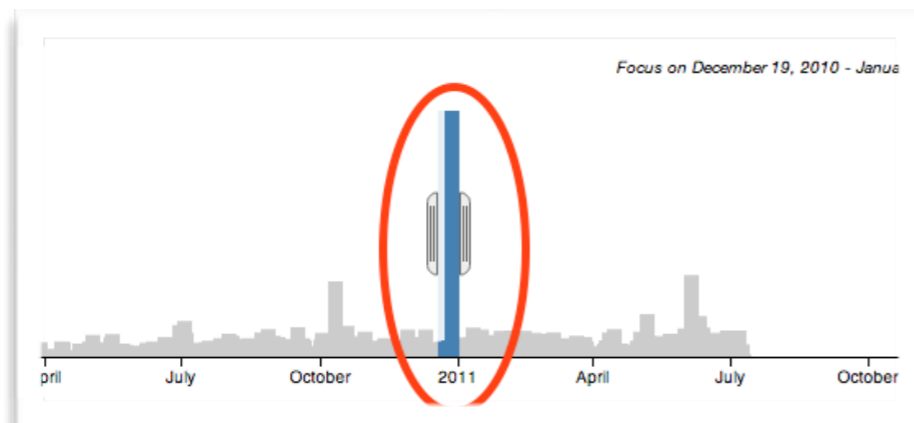
Review Statistic

Data Observation using

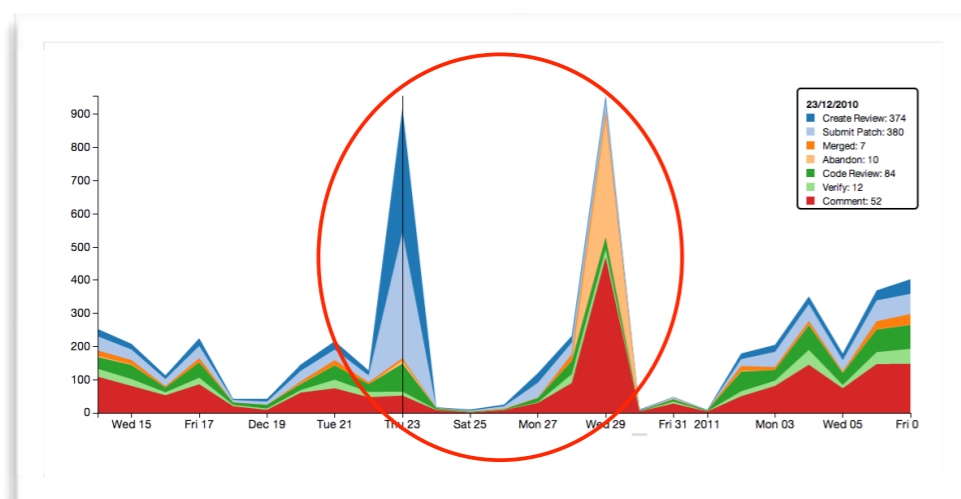


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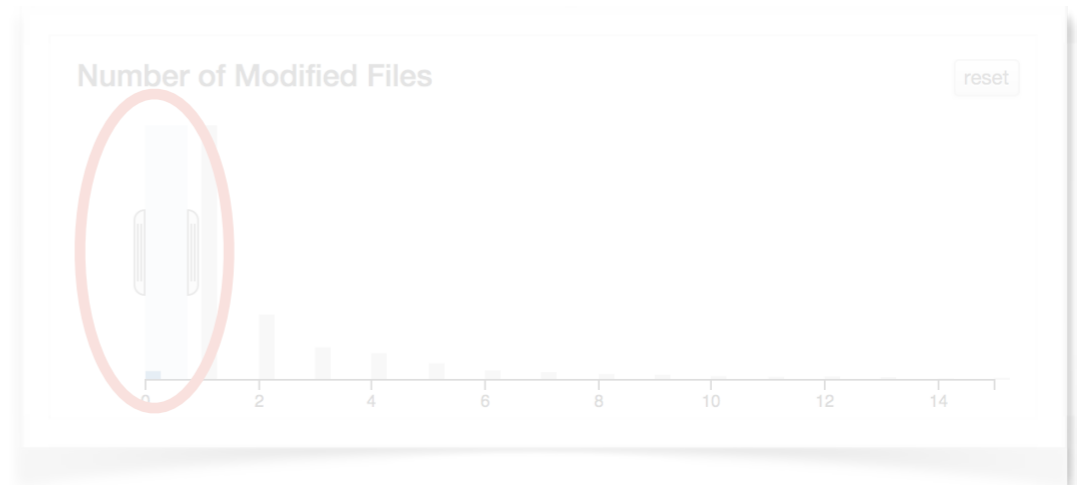


Review Statistic



Activity Statistic

Reviews without code changes

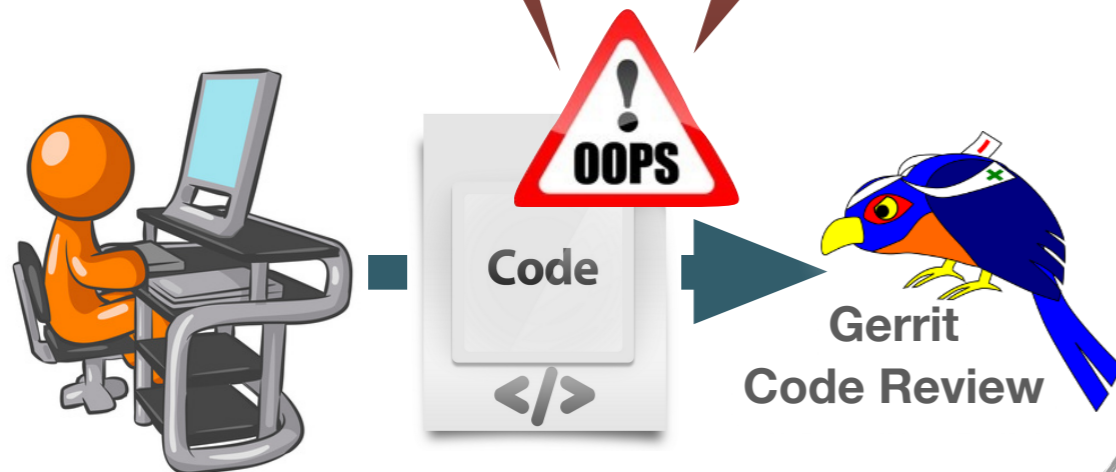


Review Statistic

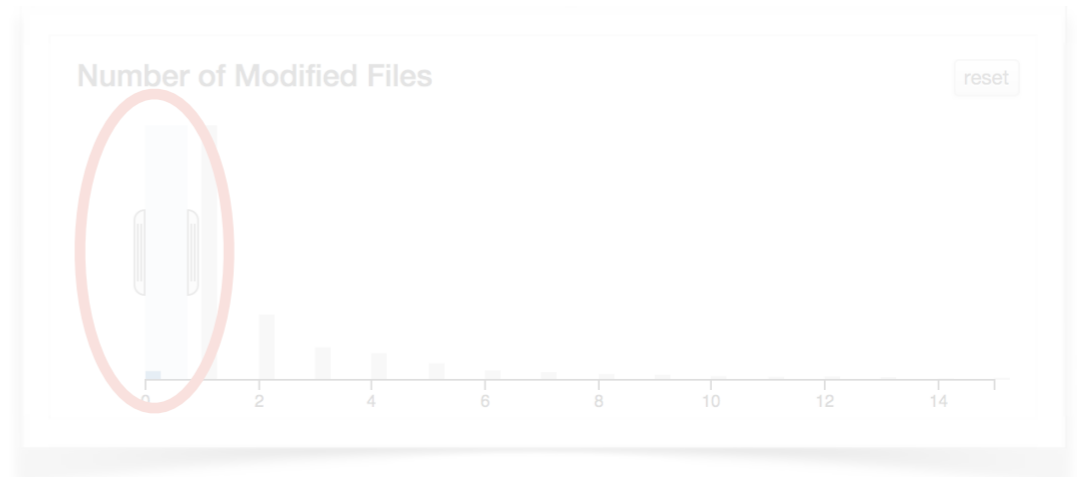
Developers mistakes

Submit wrong
code version

Accidentally
submit changes



Reviews without code changes

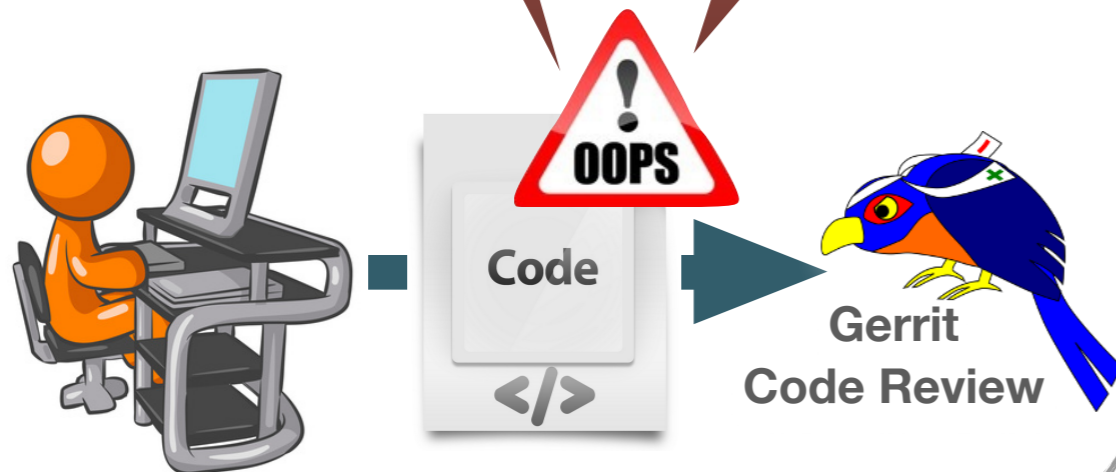


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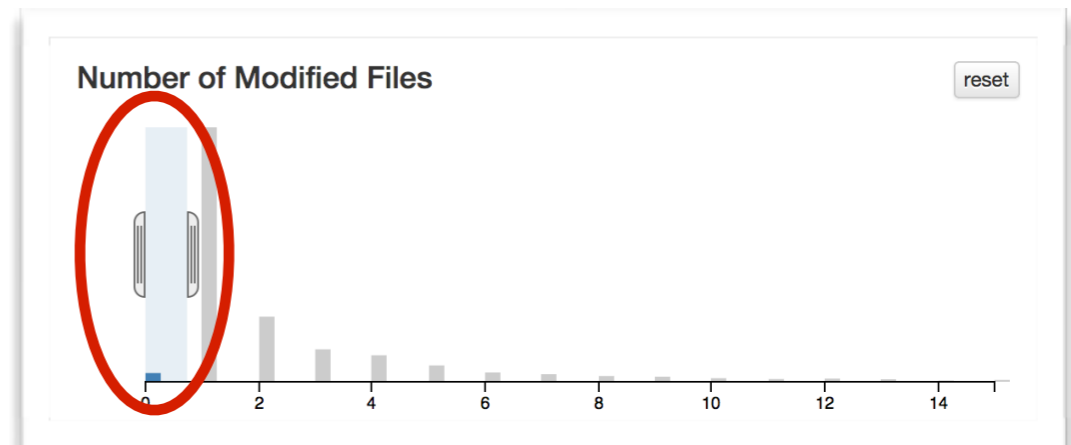
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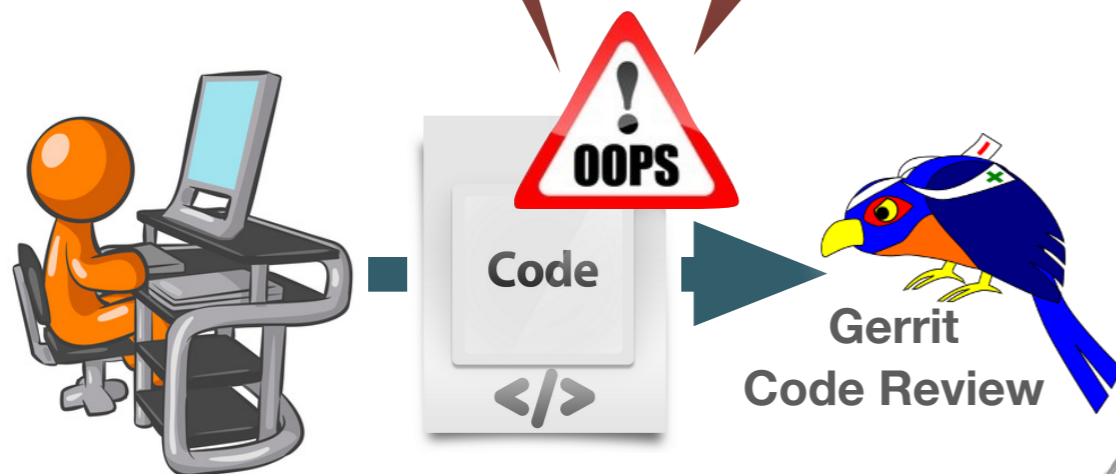


Review Statistic

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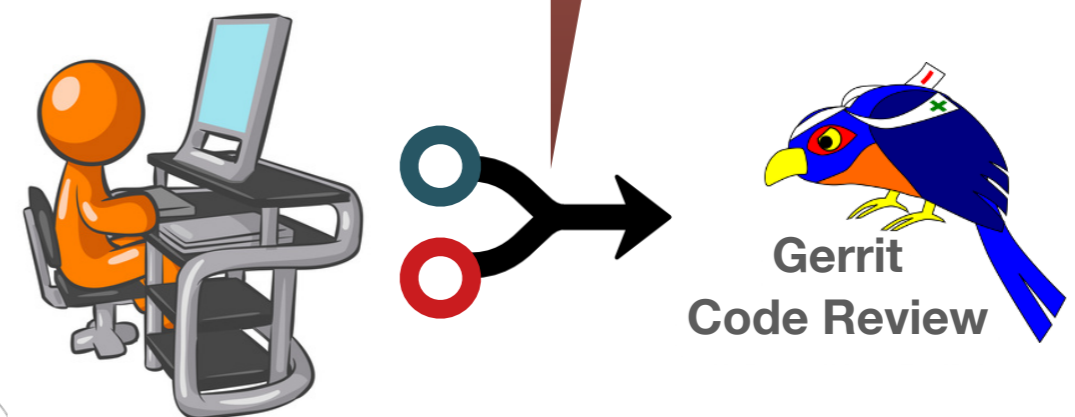
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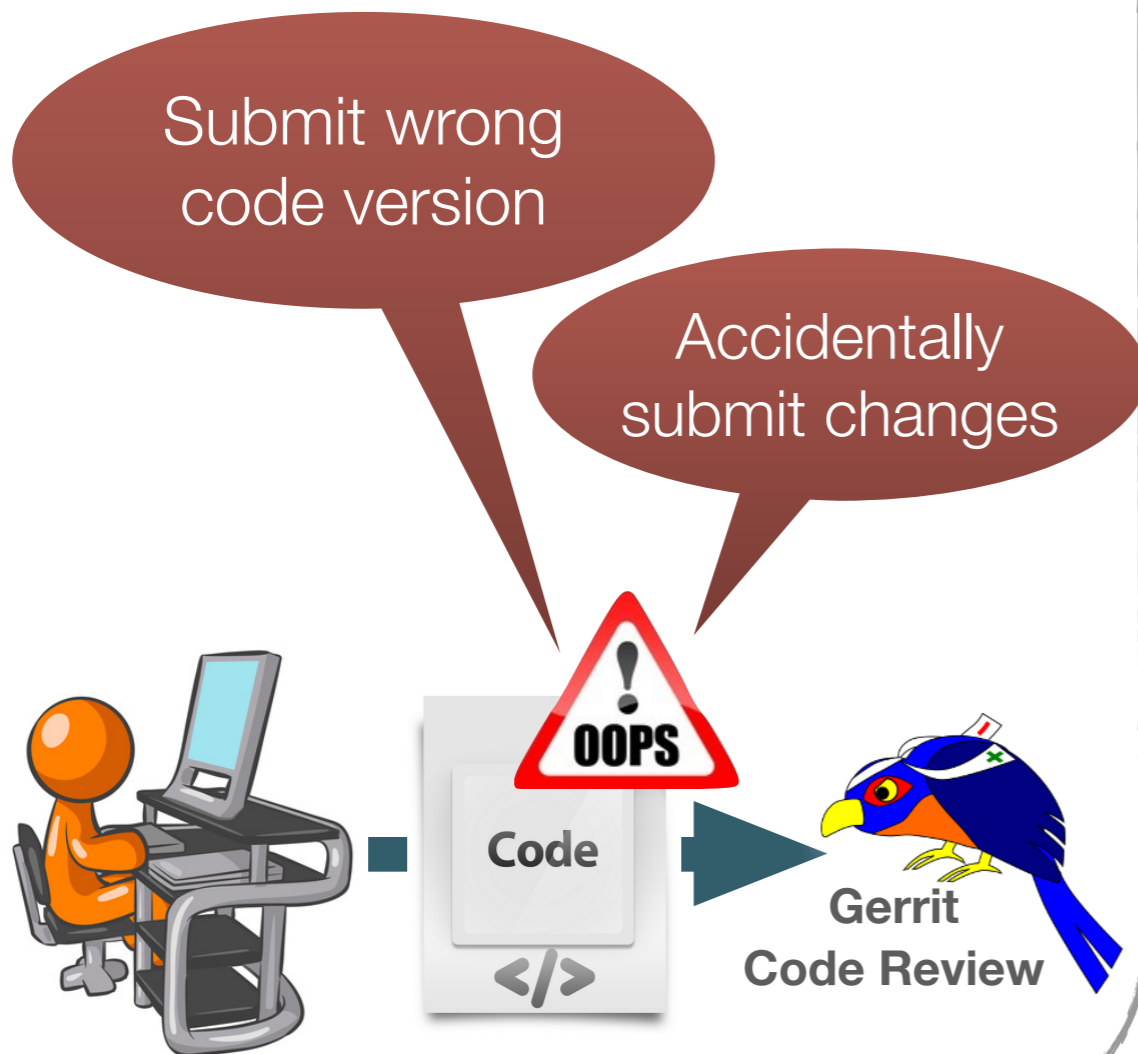
Reviews related to VCS transactions

E.g., Merging branch
transactions

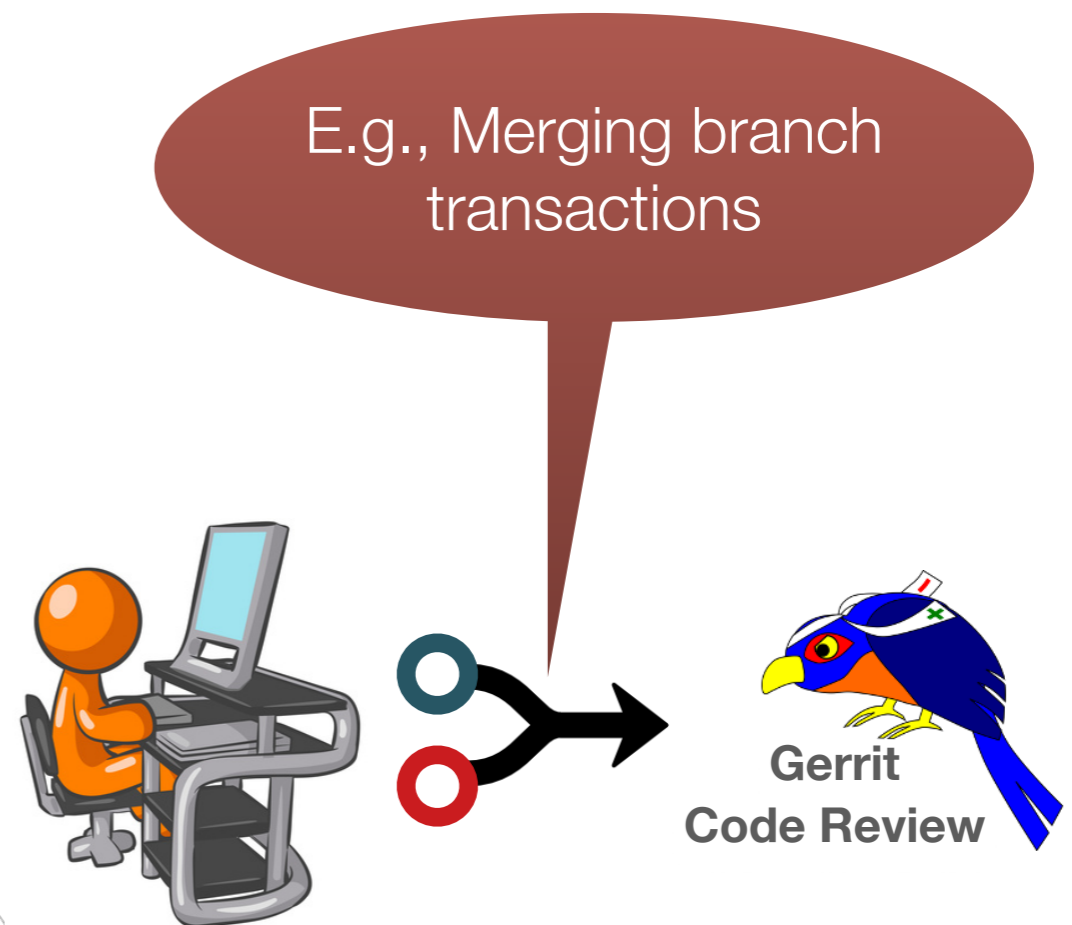


F1: 10% of all reviews were created but not for code review

Developers mistakes



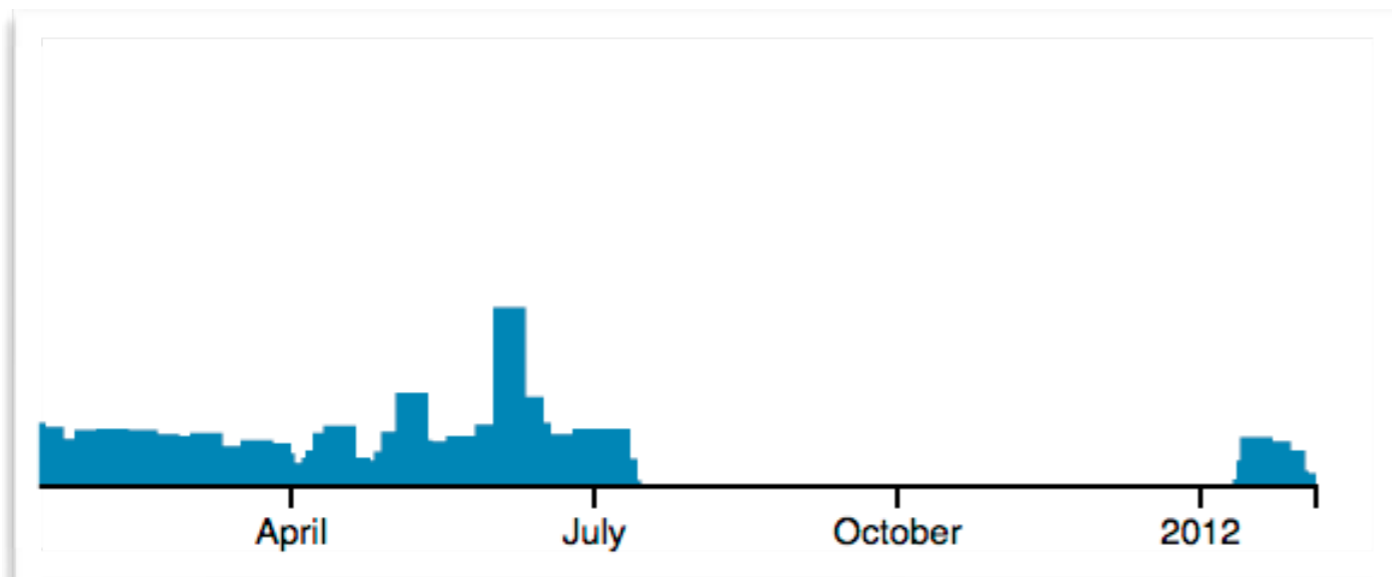
Reviews related to VCS transactions



Data Observation using



#2



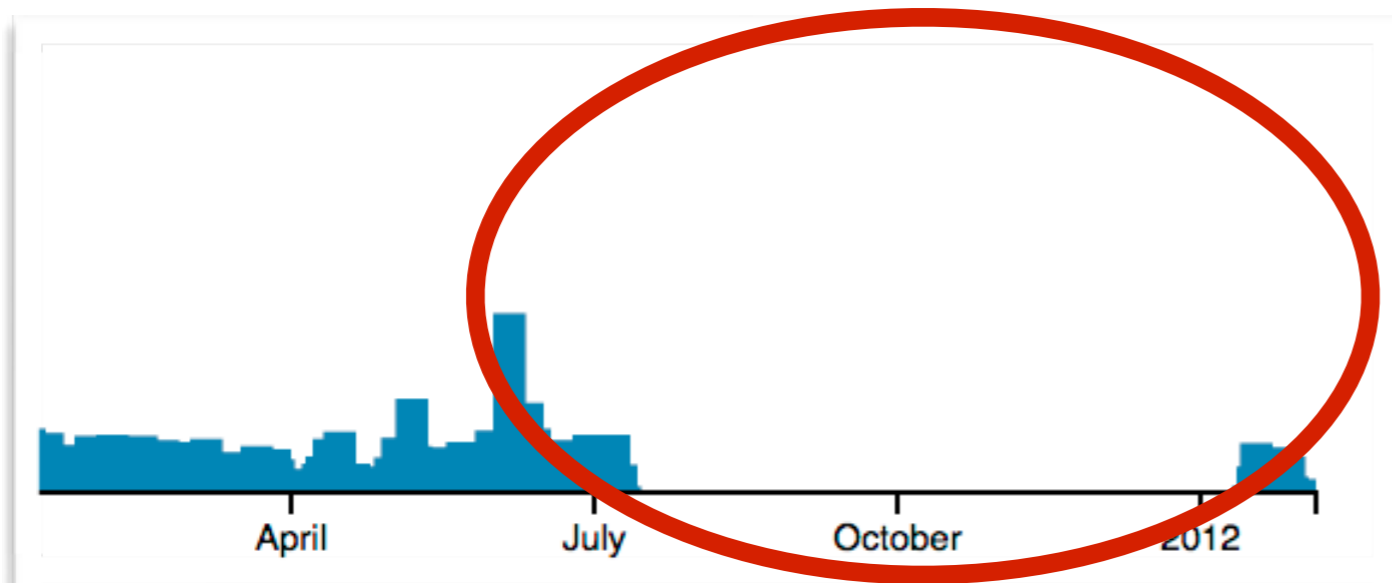
Review Statistic

Data Observation using



#2

Missing data



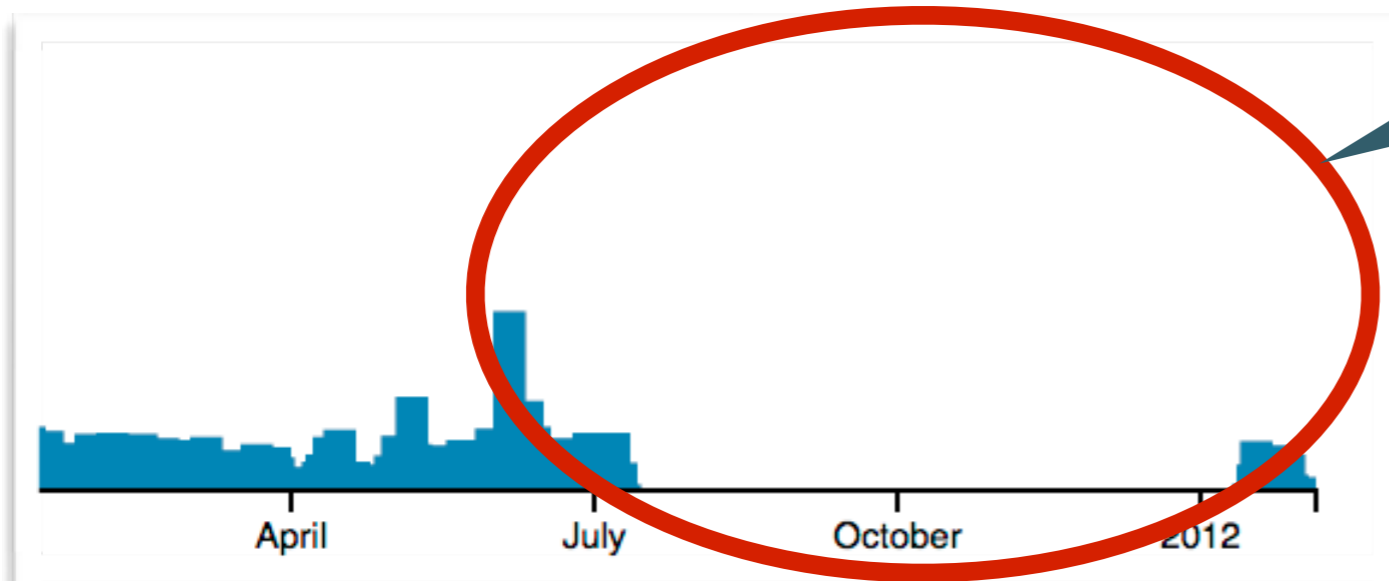
Review Statistic

Data Observation using



#2

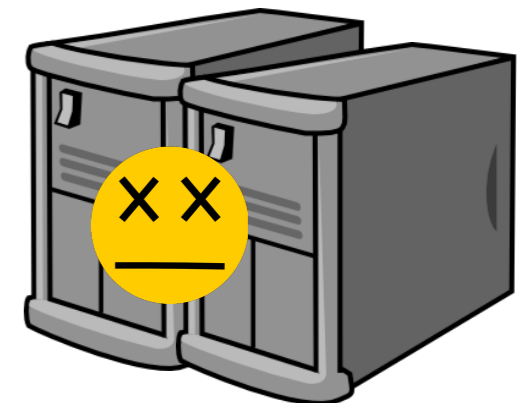
Missing data



Review Statistic

Git and Gerrit servers
were down.

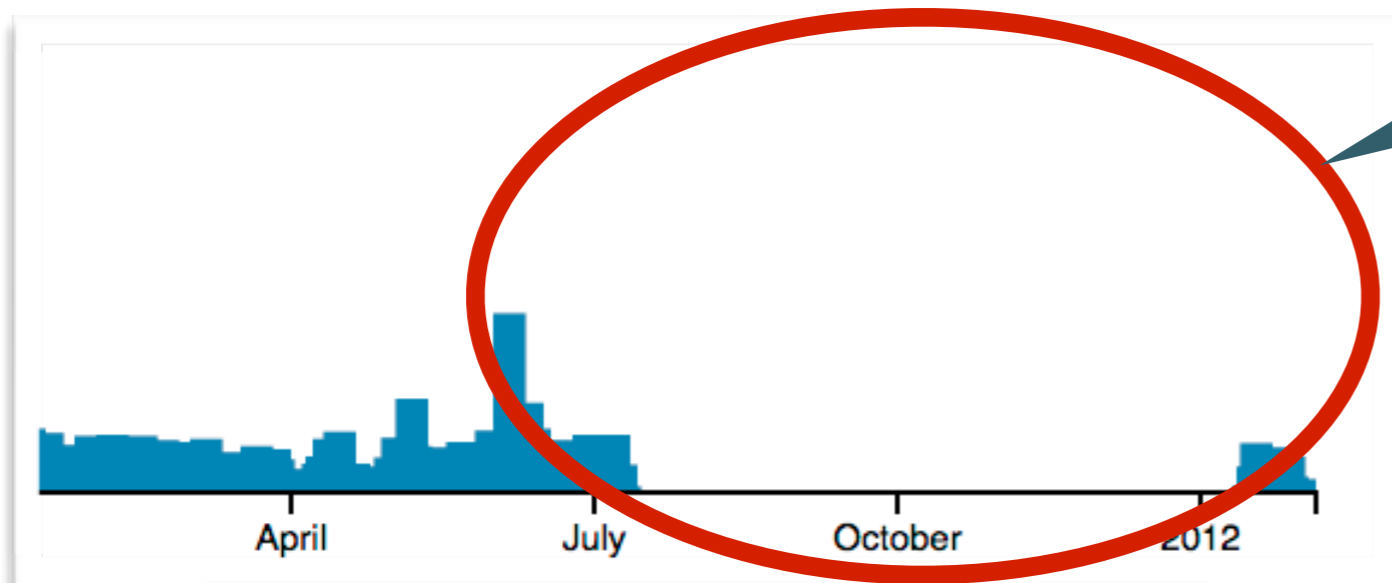
Reported by Google Developers



Incomplete dataset can
bias the results.

F2: Review history in AOSP is incomplete.

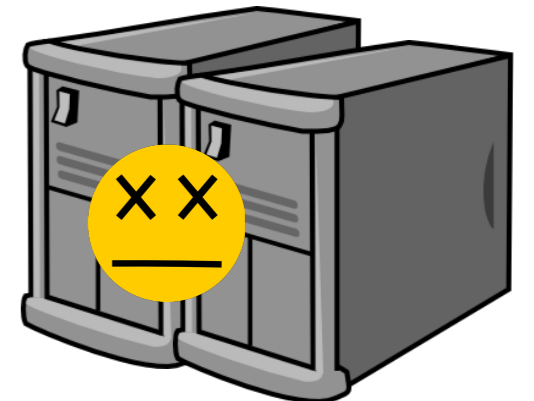
Missing data



Review Statistic

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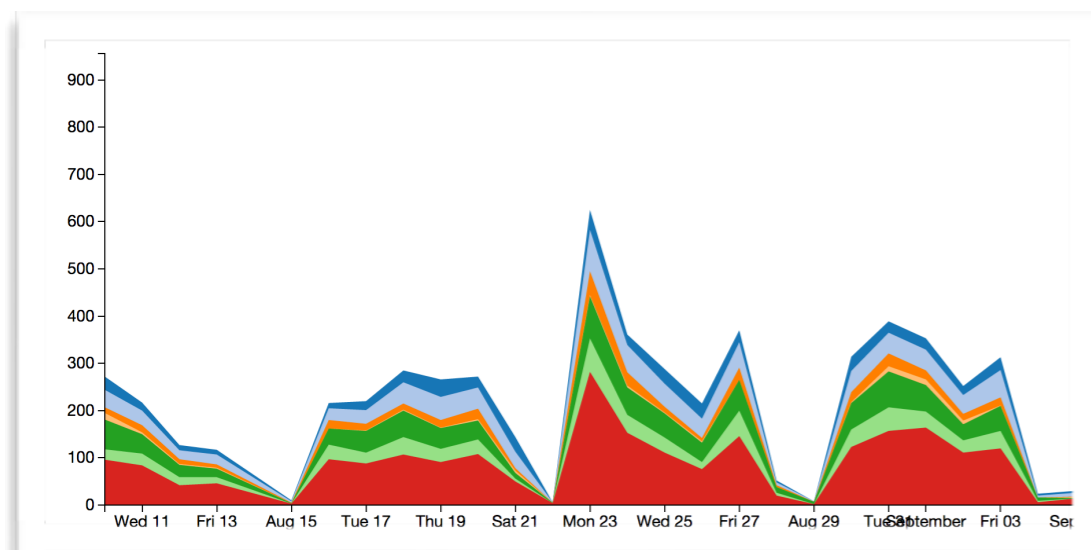


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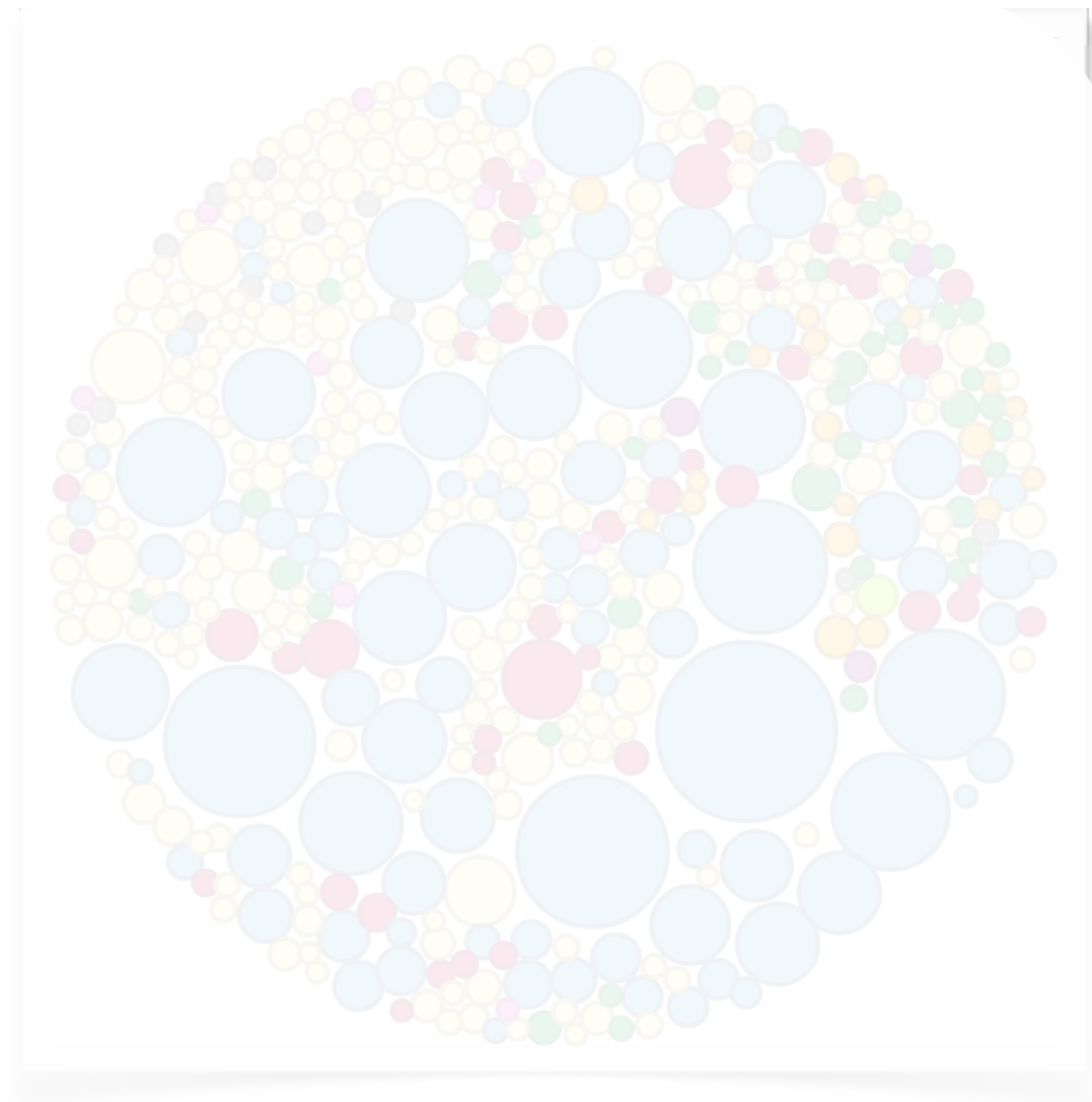
Data Observation using



#3



Activity Statistic



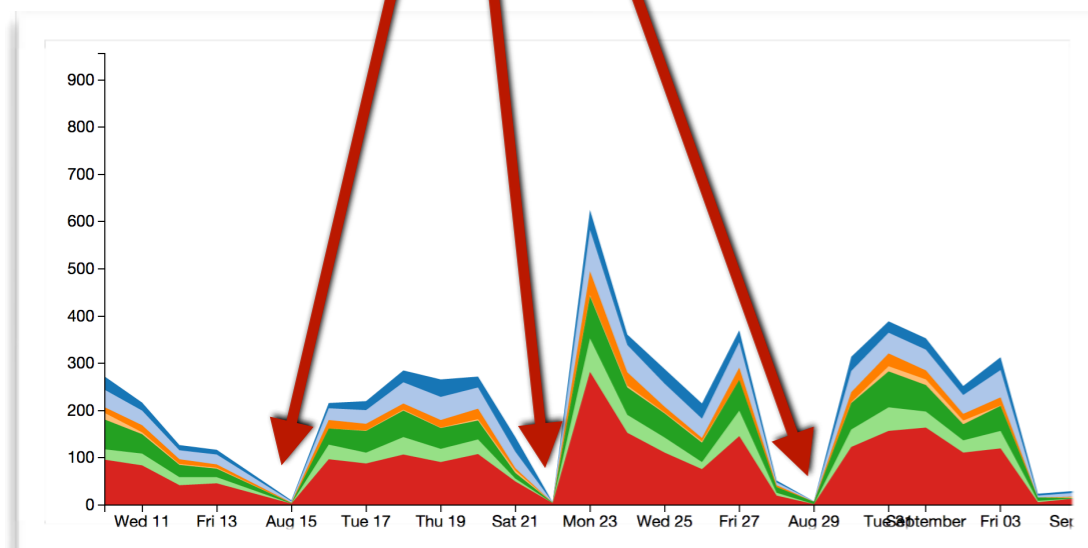
Contributor Activities

Data Observation using

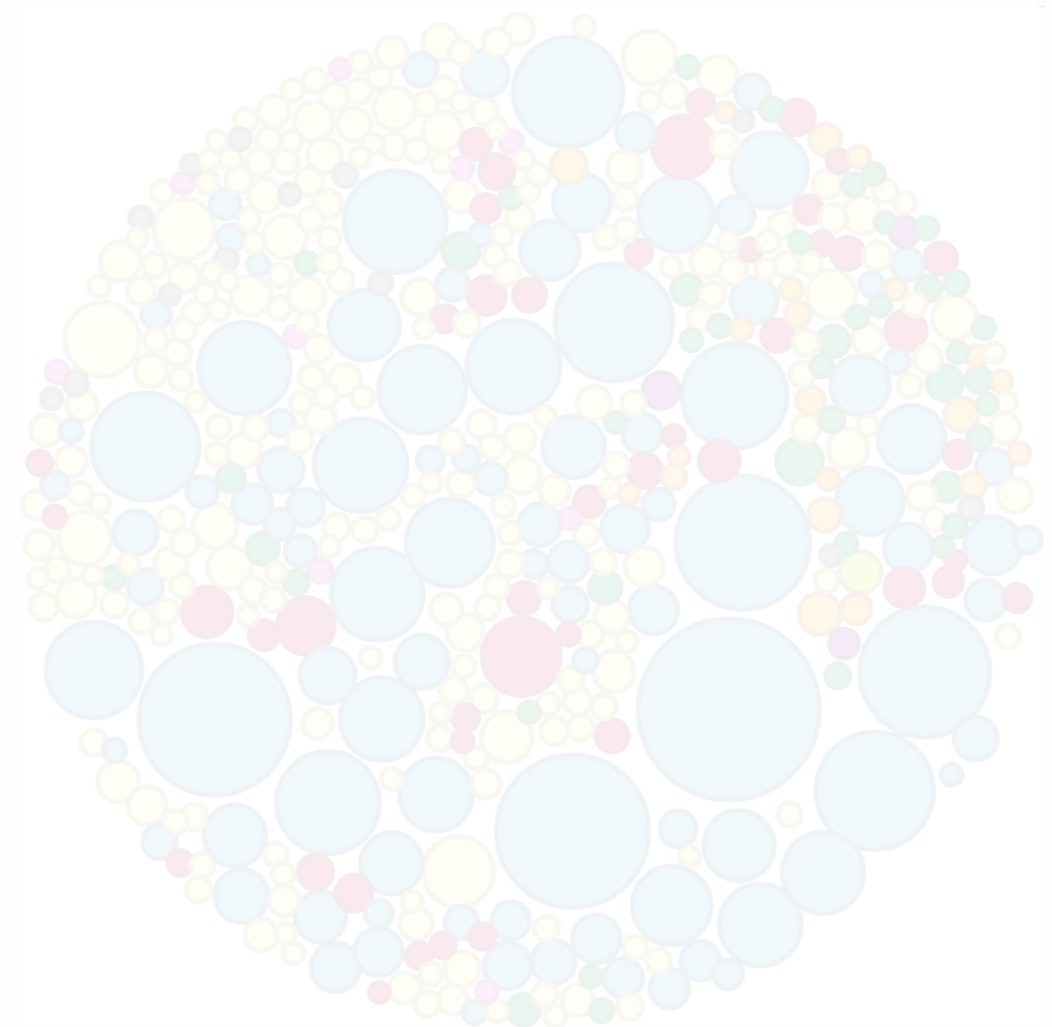


#3

Low activity number



Activity Statistic



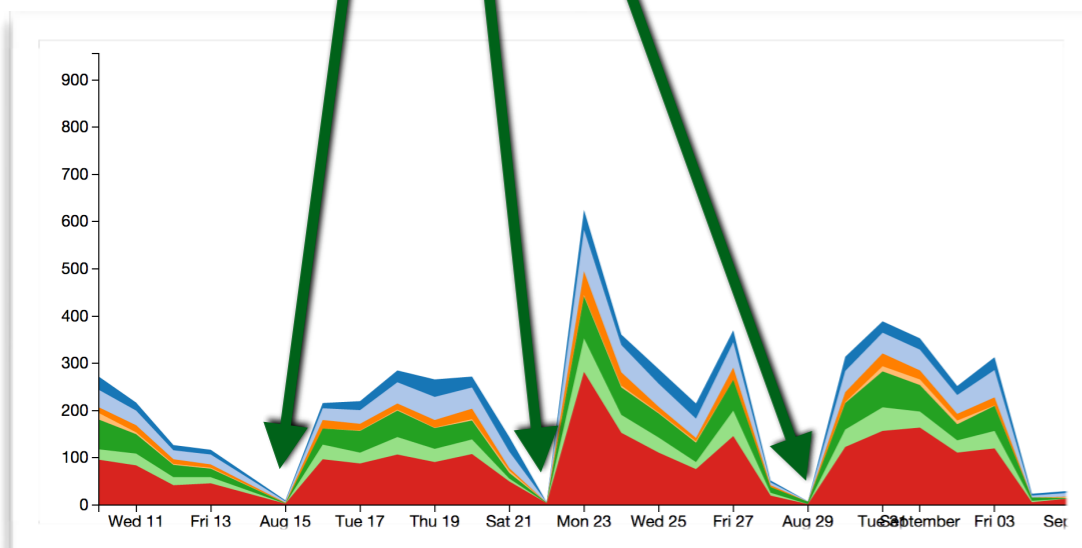
Contributor Activities

Data Observation using

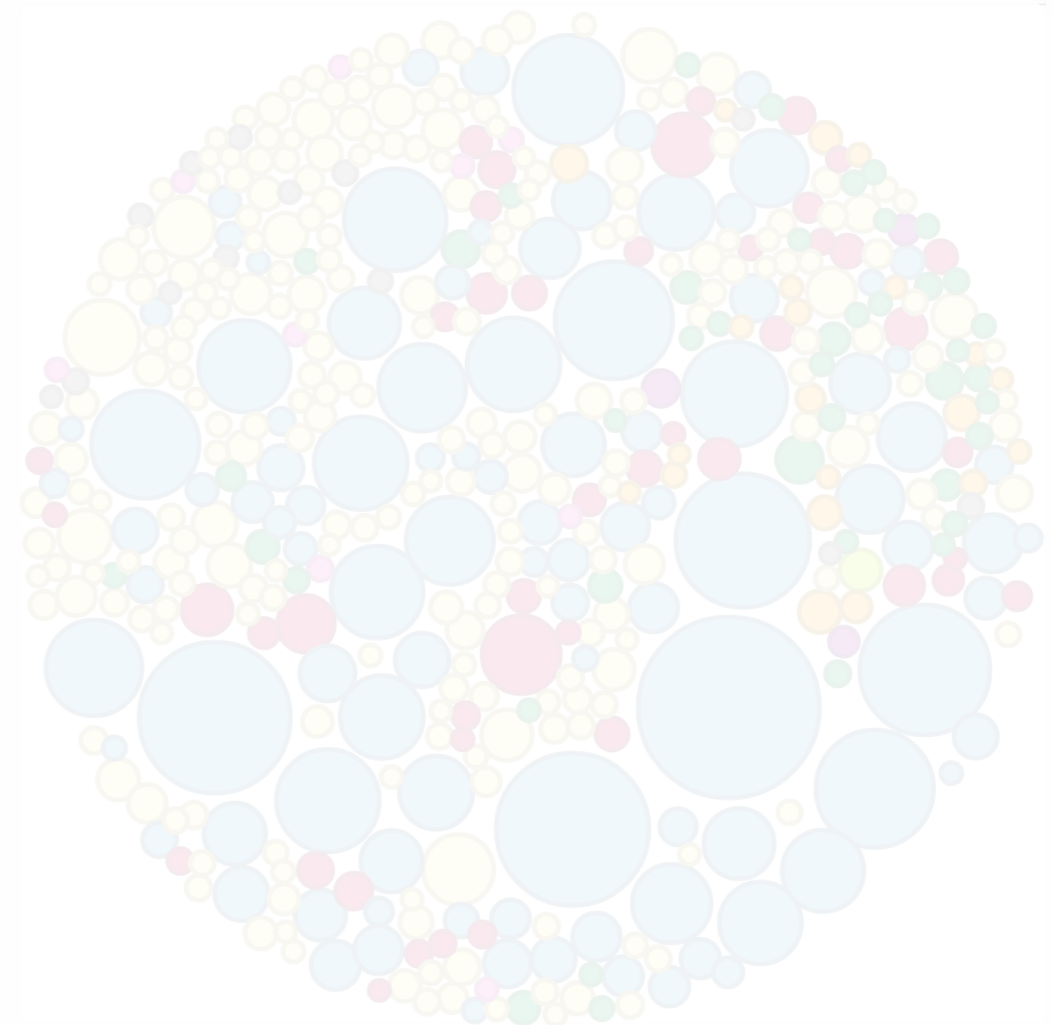


#3

Weekend



Activity Statistic



Contributor Activities

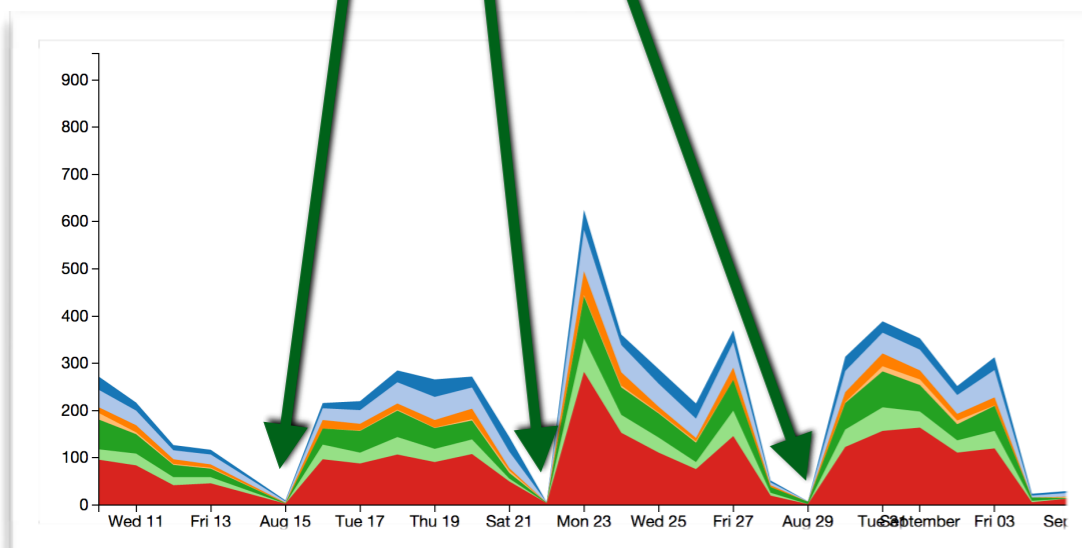
Data Observation using



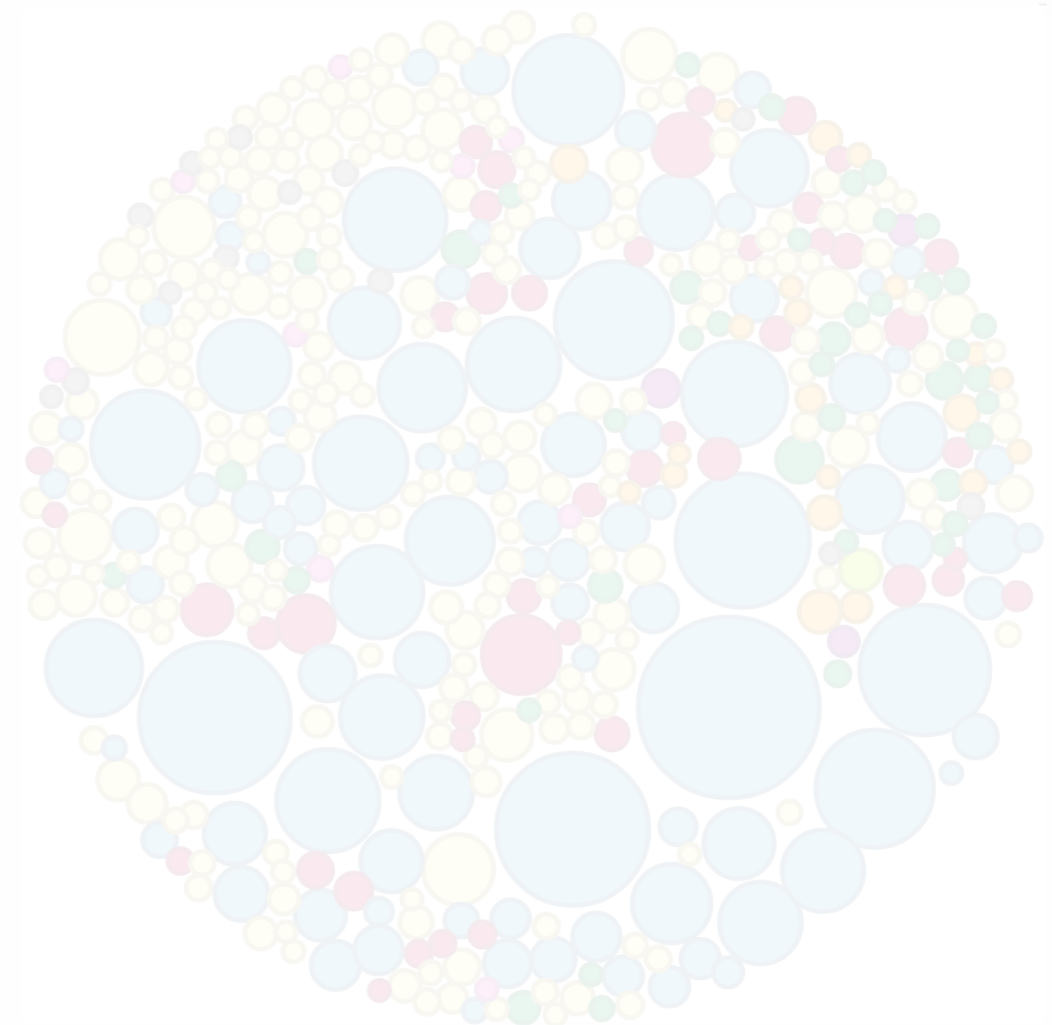
#3

F3: Developers usually do code reviews on weekdays.

Weekend



Activity Statistic



Contributor Activities

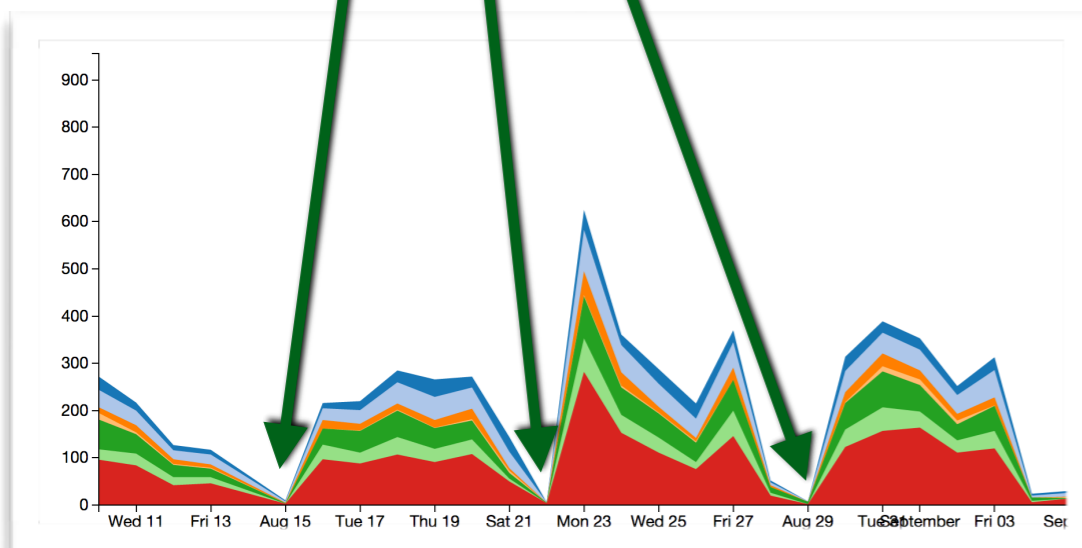
Data Observation using



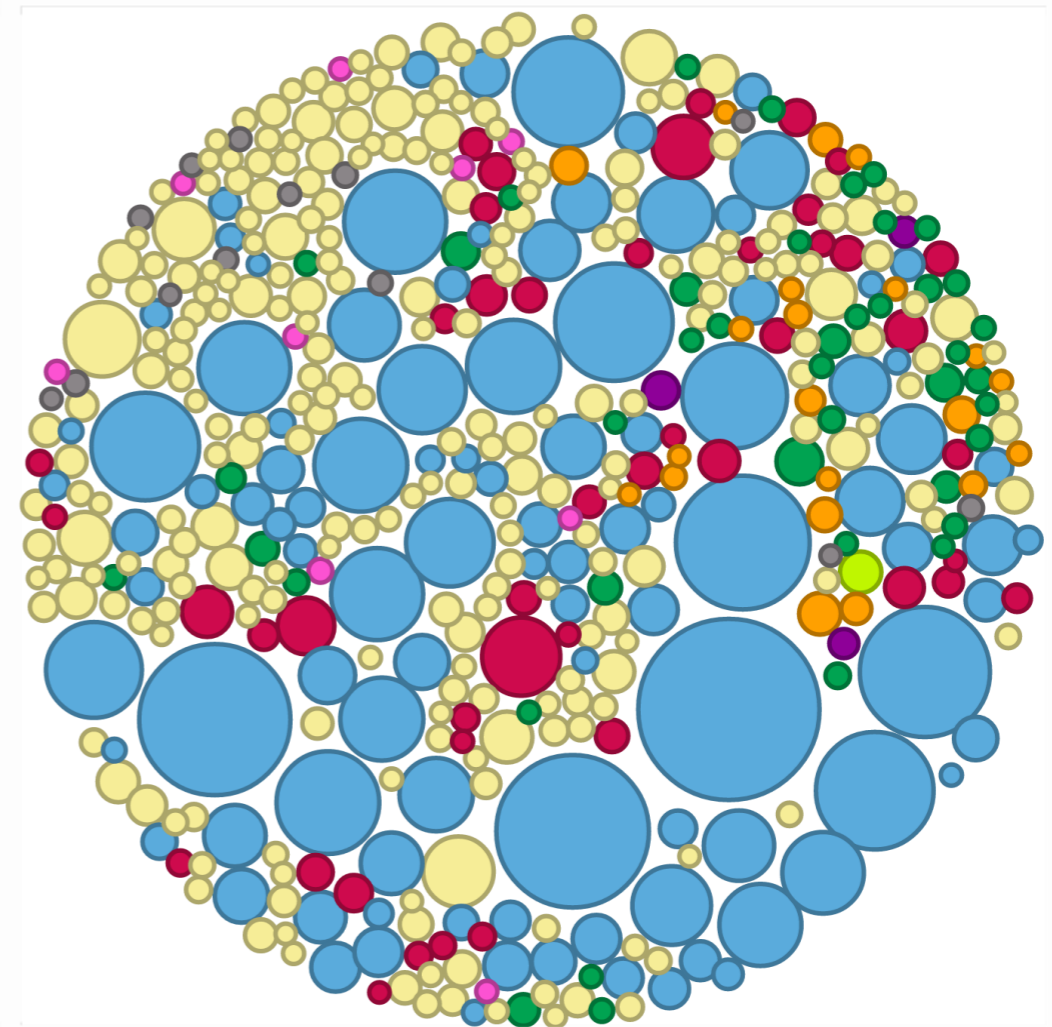
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Weekend



Activity Statistic



Contributor Activities

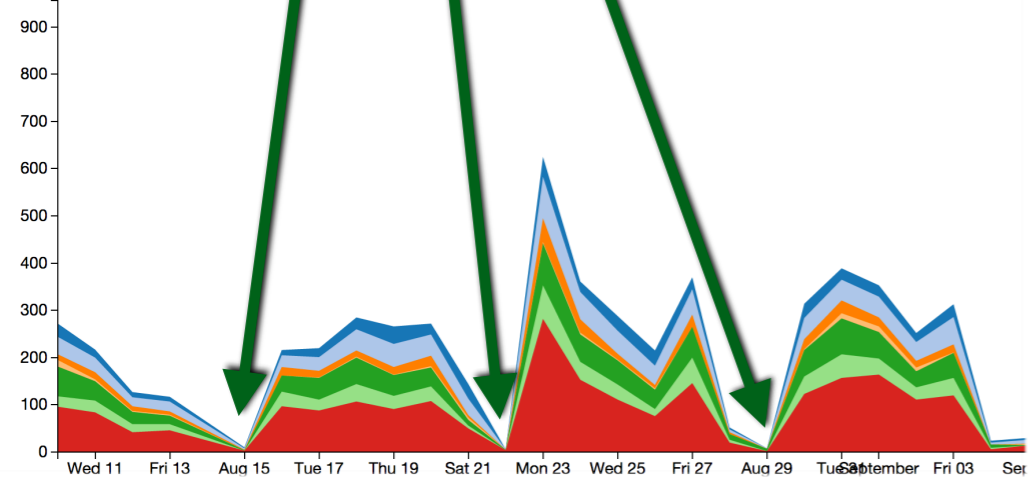
Data Observation using



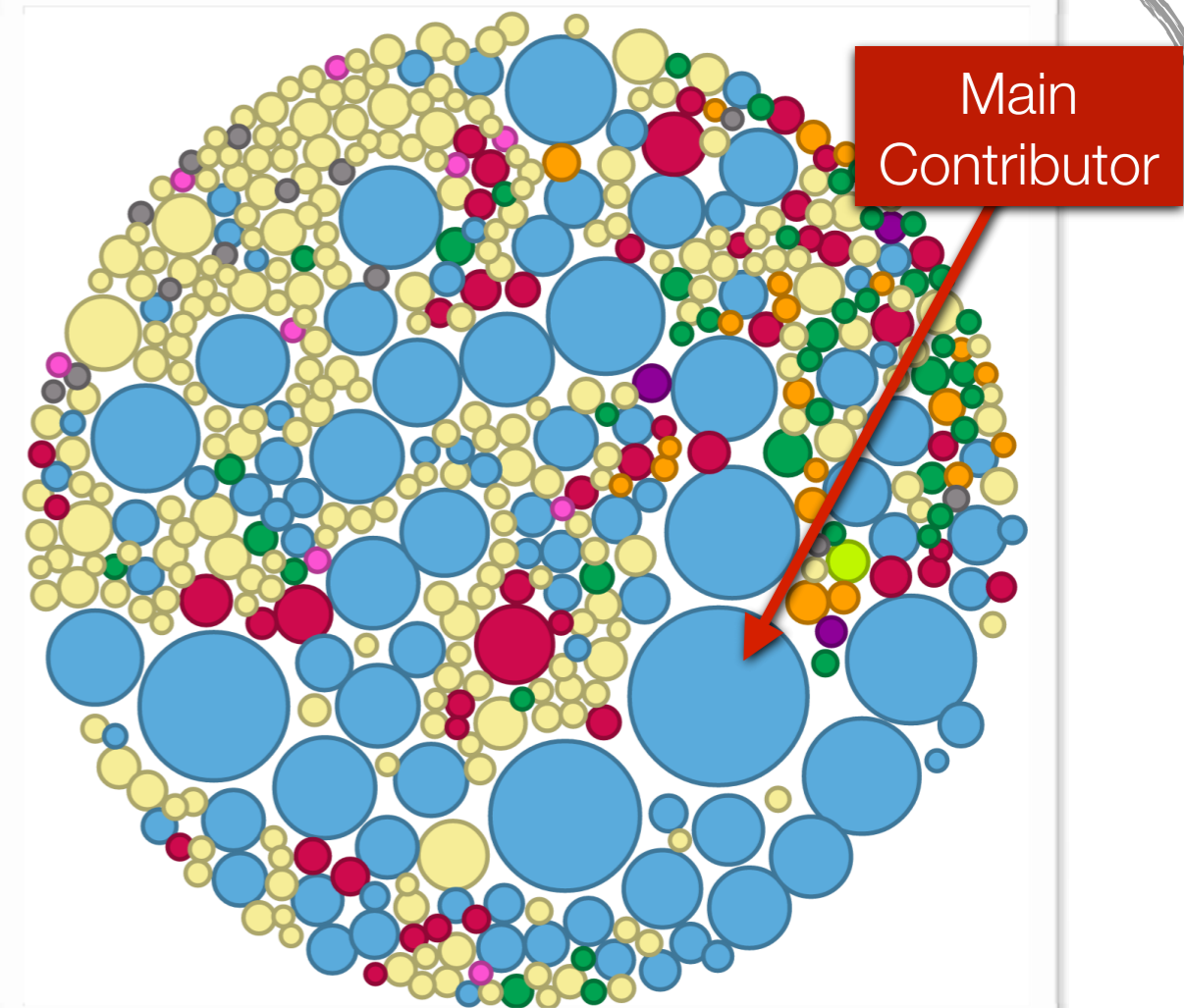
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Weekend



Activity Statistic



Contributor Activities

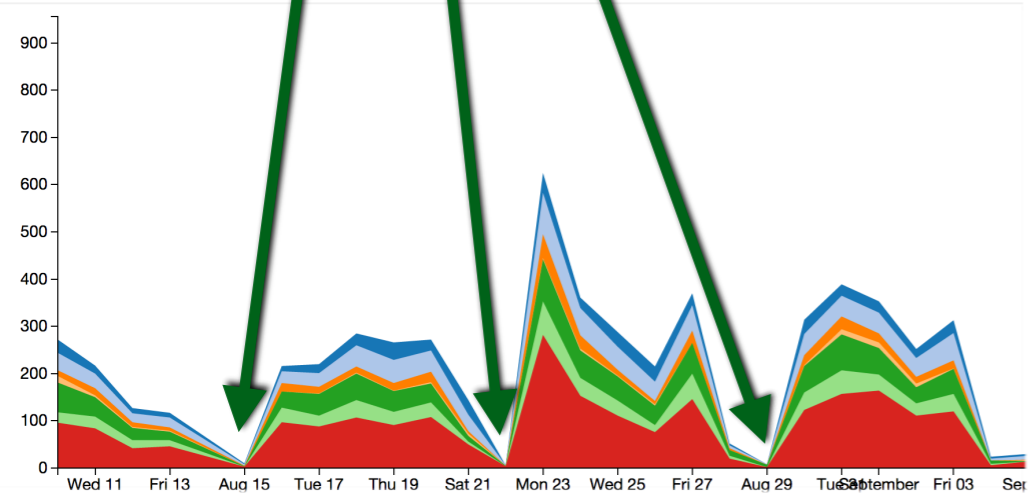
Data Observation using



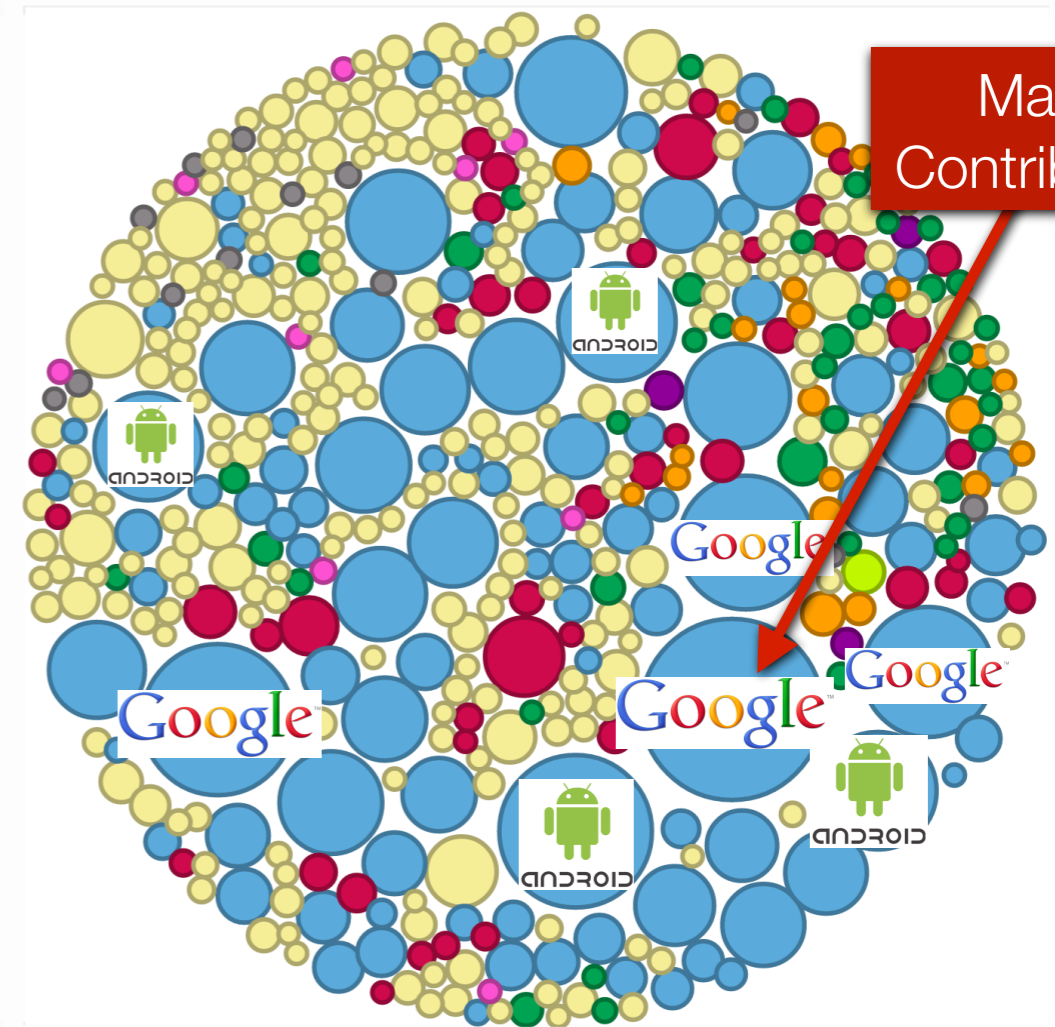
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Weekend



Activity Statistic



Contributor Activities

Data Observation using



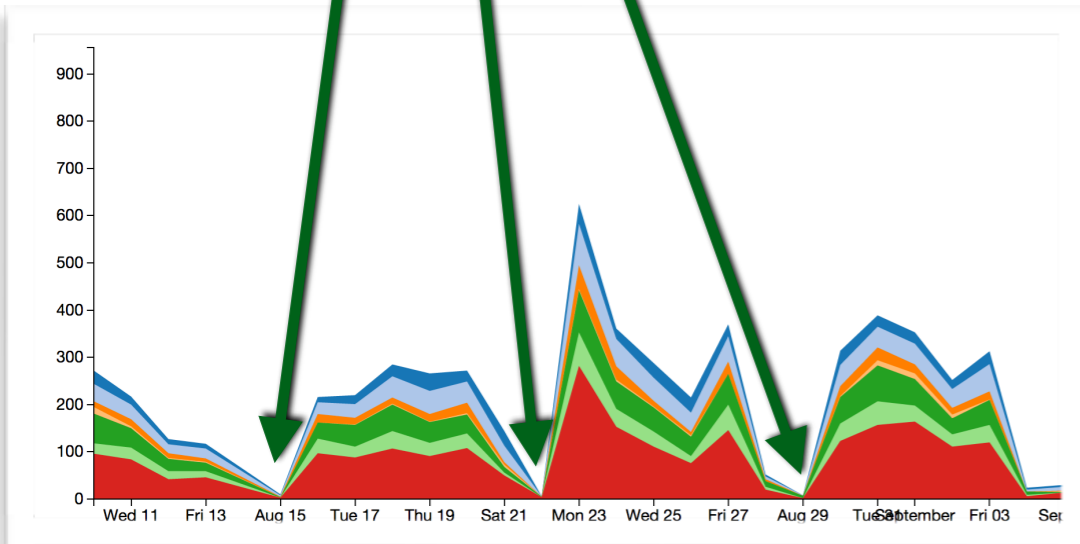
ReDA

#3

Review Data Analyzer

F3: Developers usually do code reviews on weekdays.

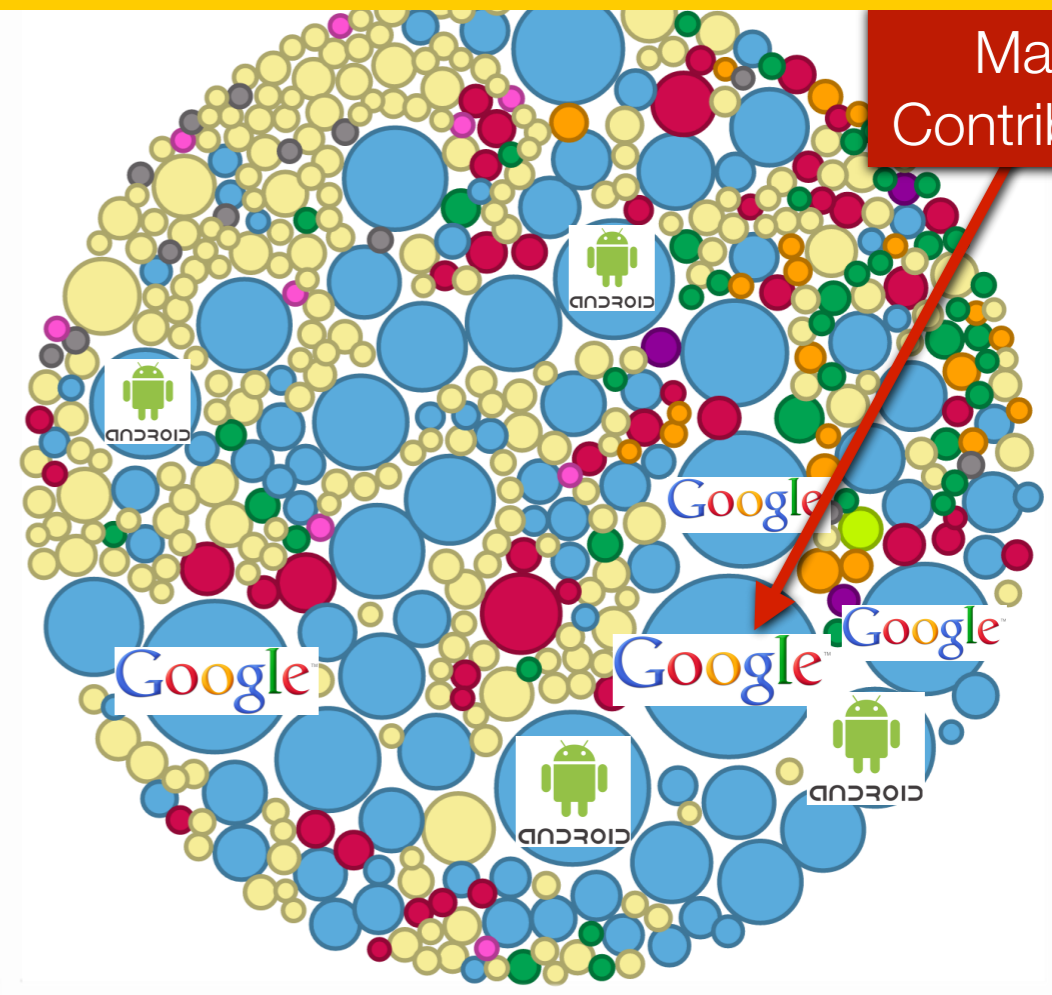
Weekend



Activity Statistic

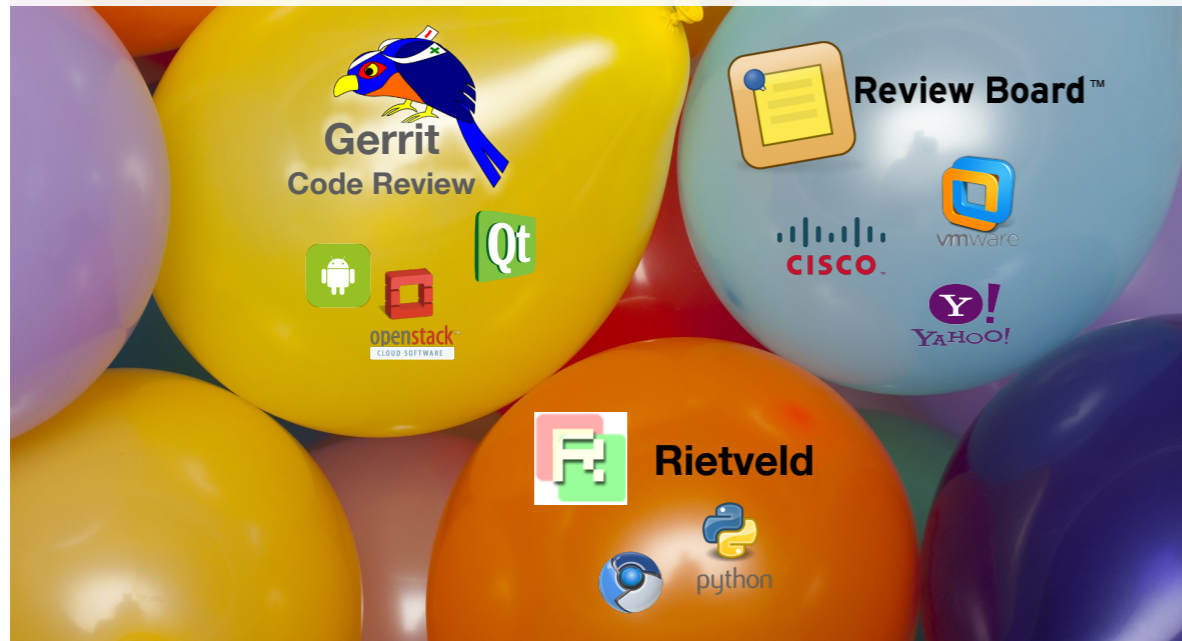
F4: Main contributors are from Google and Android teams.

Main Contributor

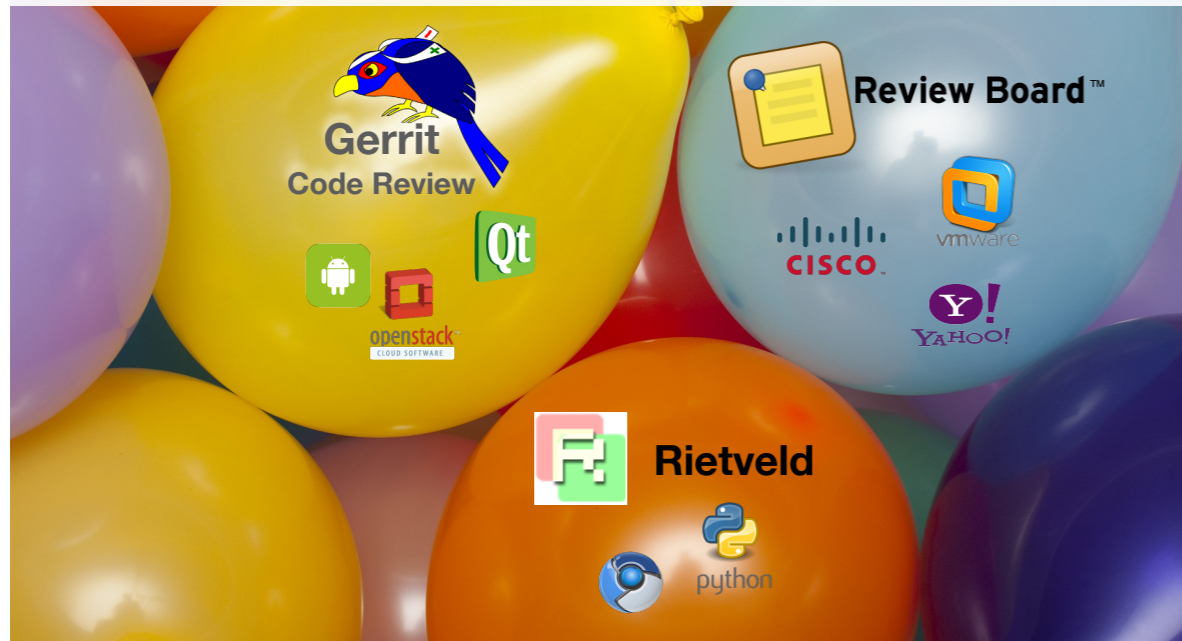


Contributor Activities

Modern Code Review is a tool-based, and occurs regularly in practice nowadays at companies and OSS projects [Bacchelli et. al.]



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Modern Code Review

New & Rich source
Code Quality
Popular



Reliable?

Can we easily find a characteristic in the dataset?

android open source project

Change-Id: I89502207c021eae2ee379767f789406b79
Owner: Alistair Buxton
Project: platform/system/core
Branch: master
Topic: Mar 2, 2013 6:30 AM
Uploaded: Nov 12, 2013 1:00 PM
Updated: Always Merge
Submitted: Review in Progress

Commit Message
Disable CR/LF translation for adb interactive shell.
adb shell uses termios to disable canonical input processing in order to get raw control codes but it does not disable CR/LF translation. The default for linux terminals is to convert CR to LF unless the running program specifically asks for this to be disabled. Since adb does not, there is no way to send a CR to any program run on adb shell. Many programs do in fact differentiate and so are broken by this behaviour, notably nano. This patch sets the termios flags to disable all line ending translation.
Change-Id: I89502207c021eae2ee379767f789406b79
Signed-off-by: Alistair Buxton <a.j.buxton@arm.com>

Reviewer	Code-Review	Verified
Colin Cross		
Horacio Spinelli	+1	
Deckard Autoverifier		

Need Code-Review
Name or Email of Reviewer

File Path	Comments	Size	Diff	Reviewed
Commit Message			Side-by-Side	Unified
M adbcommandline.c		+1, -0	Side-by-Side	Unified
		+1, -0	All Side-by-Side	All Unified

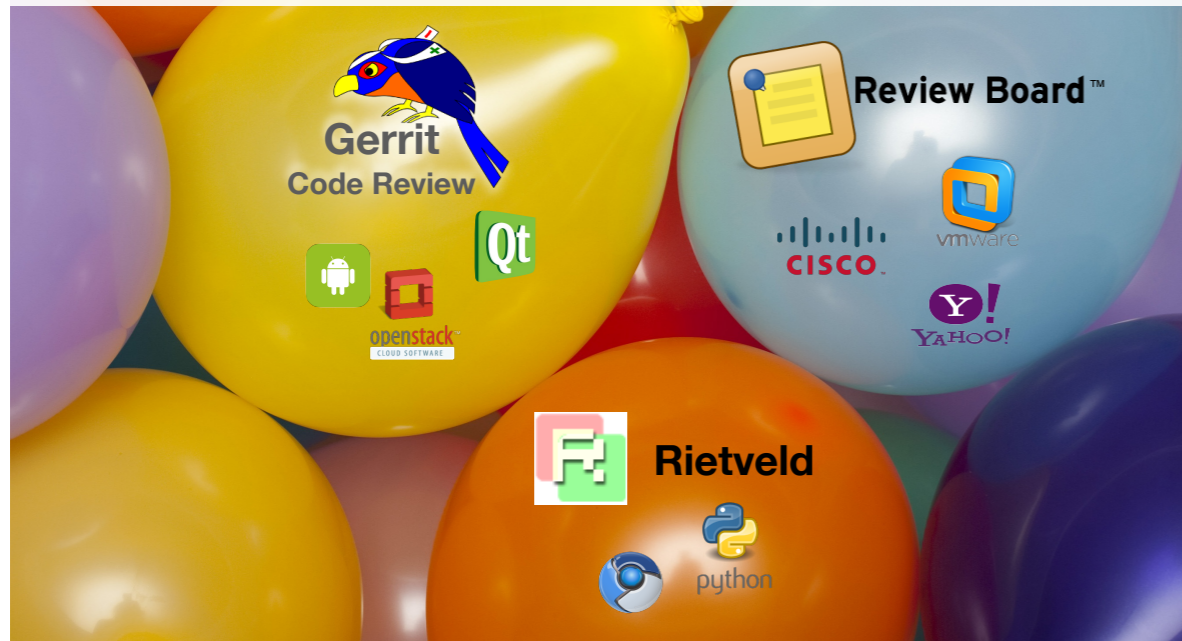
Comments
Expand Recent | Expand All | Collapse All

Deckard Autoverifier Patch Set 1: Verified-1 This is an automated message from the Deckard ... Mar 3, 2013
Deckard Autoverifier Patch Set 1: Verified-1 This is an automated message from the Deckard ... Sep 5 10:51 PM
Deckard Autoverifier Patch Set 1: Verified-1 This is an automated message from the Deckard ... Sep 10 6:16 AM
Horacio Spinelli Patch Set 1: Pretty pathetic... Im +1ing this because the code is ... 12:40 PM
Horacio Spinelli Patch Set 1: Code-Review+1 Forgot to +1, not sure how to edit. God its so ... 12:52 PM
Horacio Spinelli 1:00 PM

Patch Set 1:
GOT IT! You are the first repository I download! and the first time I ever compile on linux! THANKS!!!

Add Comment

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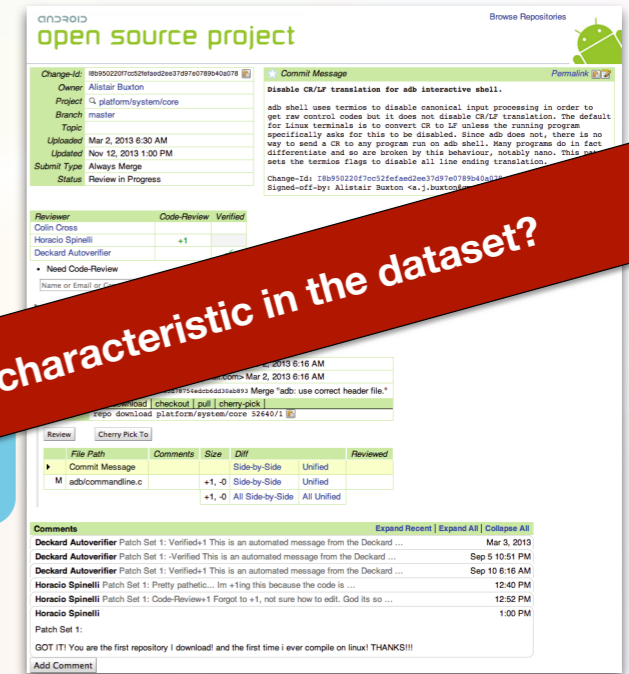
Modern Code Review

New & Rich source
Code Quality
Popular



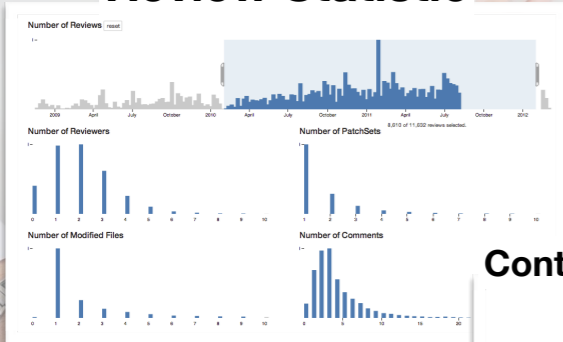
Reliable?

Can we easily find a characteristic in the dataset?

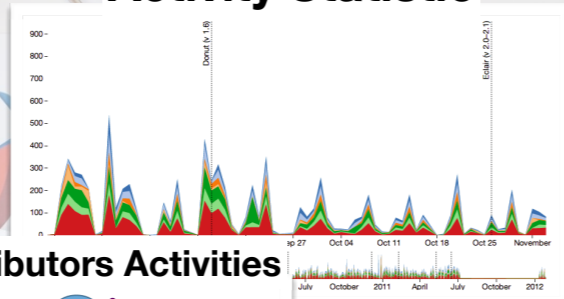


ReDA provides three visualizations
Review Data Analyzer

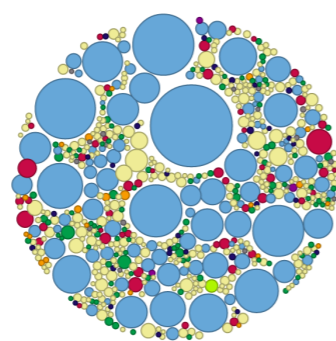
Review Statistic



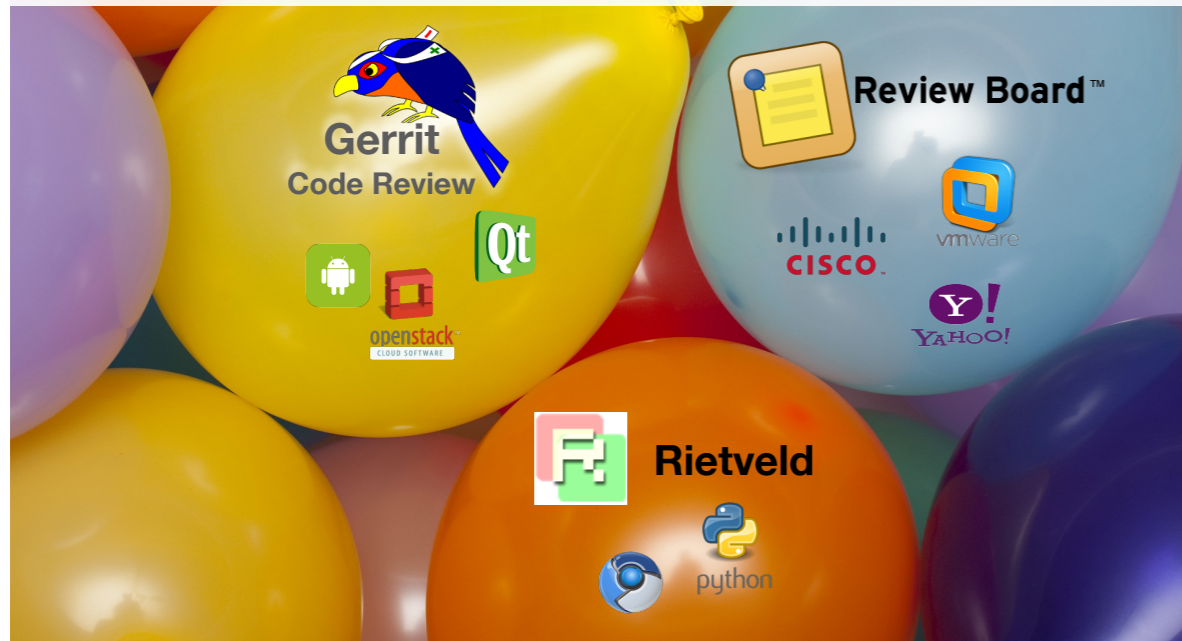
Activity Statistic



Contributors Activities



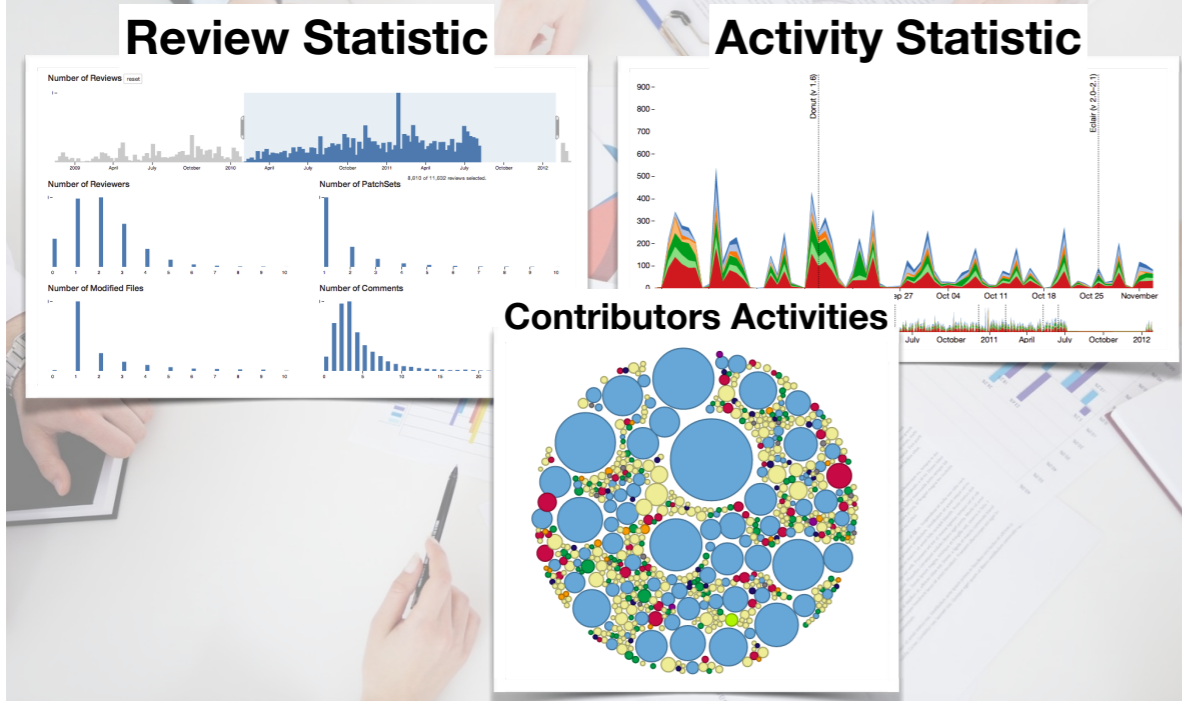
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Modern Code Review

Can we easily find a characteristic in the dataset?

ReDA provides three visualizations
Review Data Analyzer



Example Findings

from Android Open Source Software Project (AOSP) dataset

* Data was captured from October 2008 to January 2012

F1: 10% of all reviews were created but not for code review



F2: Review history in AOSP is incomplete.

F3: Developers usually do code reviews on weekdays.



F4: Main contributors are from Google and Android teams.