



# Using Mondrian to Build the Top BI App on Atlassian Marketplace

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@rsim

PIET MONDRIAN

1872 Amersfort

1944 New York

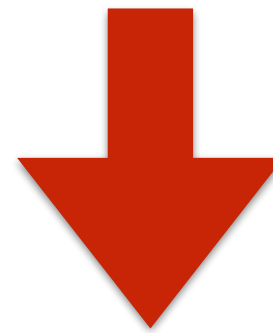
*Tableau I*, 1921

*[Gemälde I]*

Öl, Leinwand



# Standard ETL from many sources



# Create reports with drag-and-drop

The interface is divided into several sections for configuring a report:

- Dimensions:** Reporter, Resolution, Affects Version, Issue, Logged by, Label, Time, Transition Status, Transition.
- Pages:** Measures, Fix Version, Issue Type, Priority.
- Rows:** Assignee.
- Columns:** Project, Status.

Below the configuration panels, there is a visualization toolbar with options: Table, Bar chart, Line chart, Pie chart, Timeline chart, Map chart, Gantt chart, and a refresh icon.

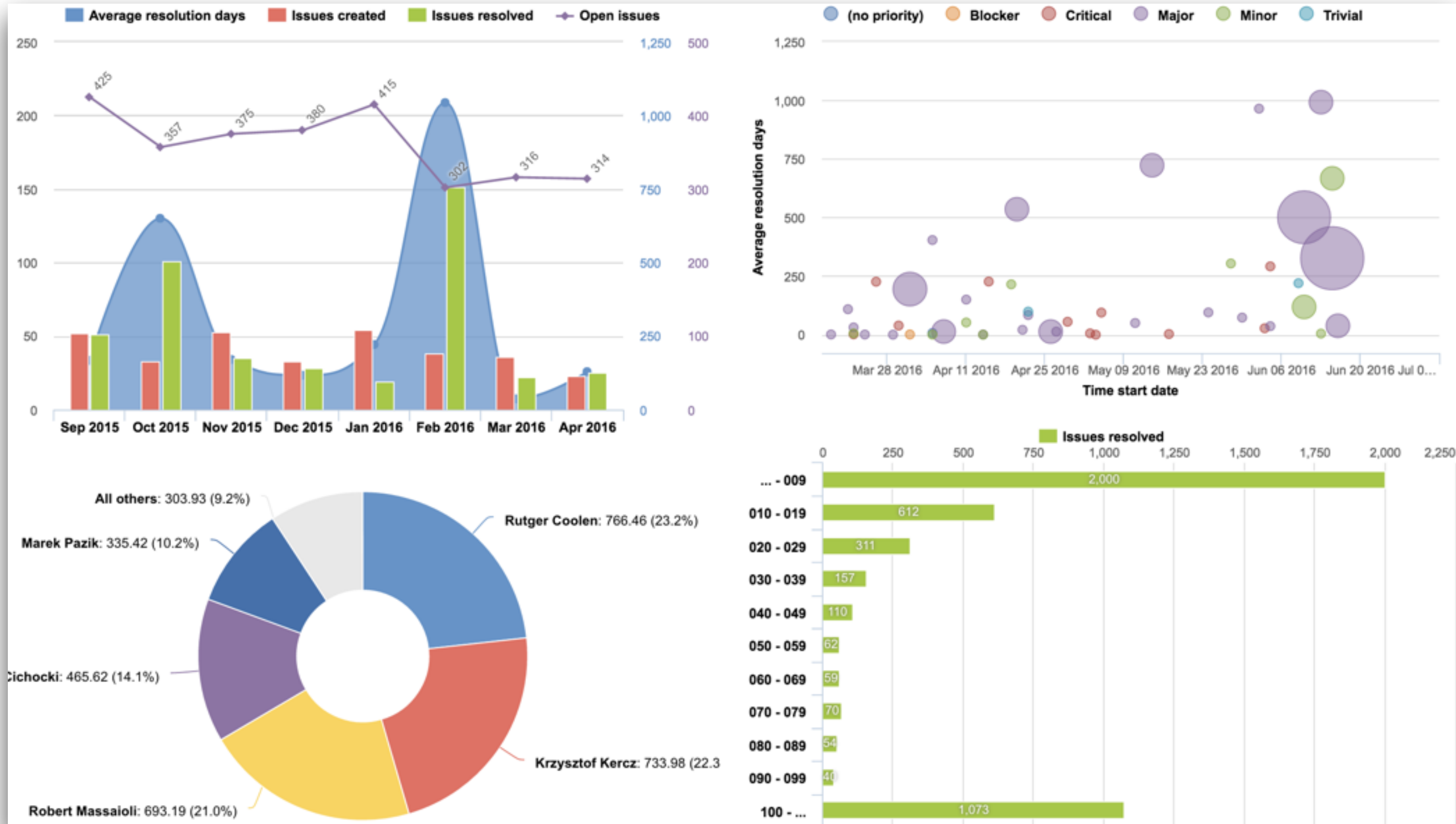
Below the toolbar are filters: Issues created, All Fix Versions, All Issue Types (with a dropdown menu open), and All Priorities.

The main data table is a pivot table with the following structure:

	+ All Projects		- All Statuses		Open	In Progress	Closed	Total
	Open	In Progress	Open	In Progress				
Arne Leffler	140	4	598	906				
Karli McKenzie	102	4	631	962				
Ray Simpson	121	4	624	918				

At the bottom of the table, there are controls for 'single' and 'multiple' views, and a total count of 243.

# Many chart types





# Powerful calculations

Define calculated member formula

[Measures].[ Average resolution days ] =

```
CASE WHEN [Measures].[Issues resolved] > 0 THEN  
  [Measures].[Total resolution days] / [Measures].[Issues resolved]  
END
```

Formatting #,###.## Decimal

Read [calculated members tutorial](#) to learn about calculated member formulas. You can select members, operators and frequently used functions from sidebar to insert them into calculated member formula.

**Root members**

- Issues created
- Issues due
- Issues resolved
- Original estimated hours
- Remaining estimated hours
- Hours spent
- Sub-tasks created
- Sub-tasks due
- Sub-tasks resolved
- Transitions to status
- Transitions from status
- Issues closed
- Sub-tasks closed
- Issues with due date

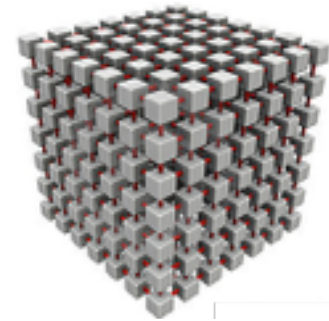
Update Delete Cancel

# Summary of eazyBI

Source Data



Multi-dimensional OLAP cube



Dimensions  
Measures

Calculated measures using MDX language

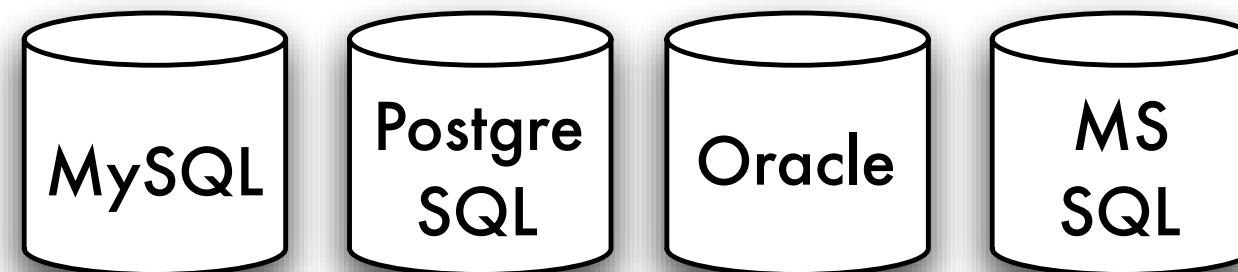
Create table reports

Create different chart types

Create dashboards from many reports

Publish reports and dashboards as gadgets on Jira dashboards and Confluence pages

# Technical components



<http://github.com/rsim/mondrian-olap>

[http://github.com/rsim/mondrian\\_udf](http://github.com/rsim/mondrian_udf)



# The Problem:

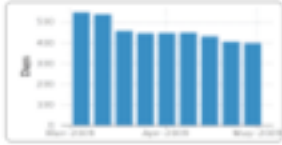
# Built-In Jira Reporting

## Add a gadget

Search

**CATEGORIES**


- All 51
- Charts 13**
- JIRA 47
- Other 3
- Wallboard 16



**Average Age Chart**  
By Atlassian • Local

Add gadget


Displays the average number of days issues have been unresolved.



**Pie Chart**  
By Atlassian • Local

Add gadget

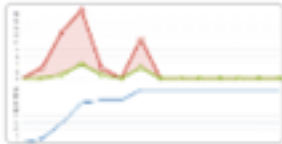
Displays the matching issues for a project or filter as a pie chart.



**Recently Created Chart**  
By Atlassian • Local

Add gadget


Displays recently created issues for a specified project as a bar chart



**Created vs. Resolved Chart**  
By Atlassian • Local

Add gadget

Displays created issues vs. resolved issues for a project or saved filter.



**Average Number of Times in Status**  
By Atlassian • Local

Add gadget



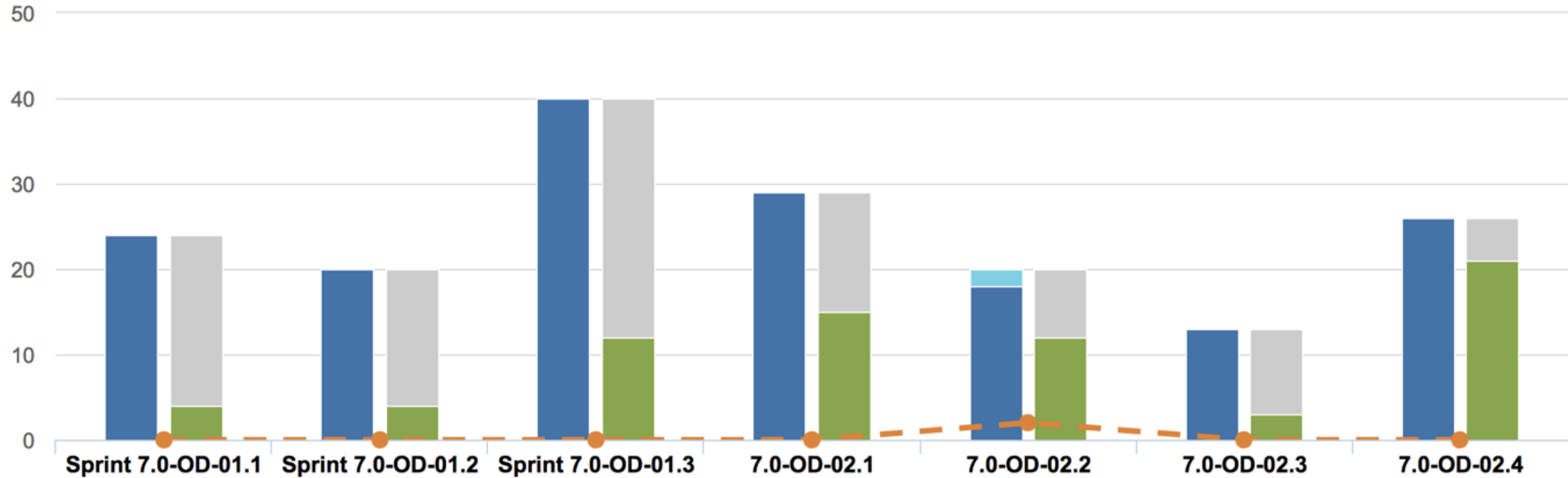
Demo



# Typical Use Cases

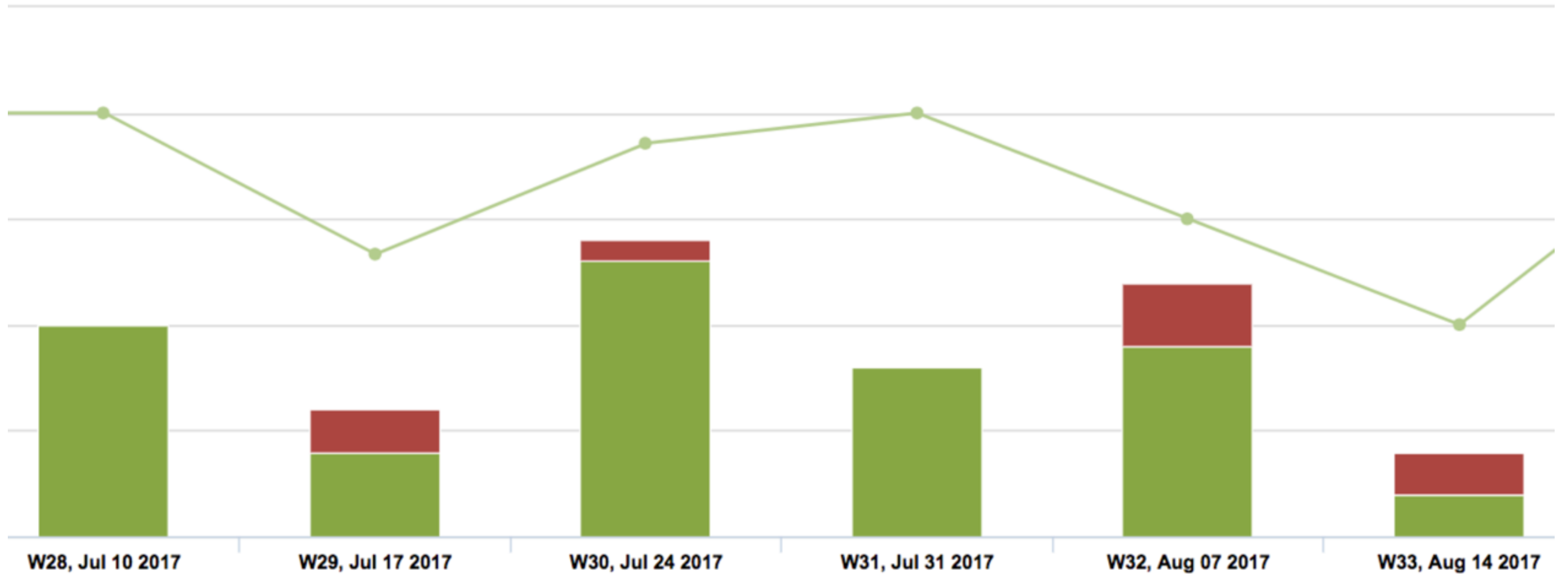
# Jira Software

**Sprint Story Points committed**   **Sprint Story Points added**   **Sprint Story Points change**   **Sprint Story Points completed**  
**Sprint Story Points removed**   **Sprint Story Points not completed**   **Sprint commitment changes**



# Jira Service Desk

■ Time to resolution - Met   ■ Time to resolution - Breached   ● Time to resolution - Met %

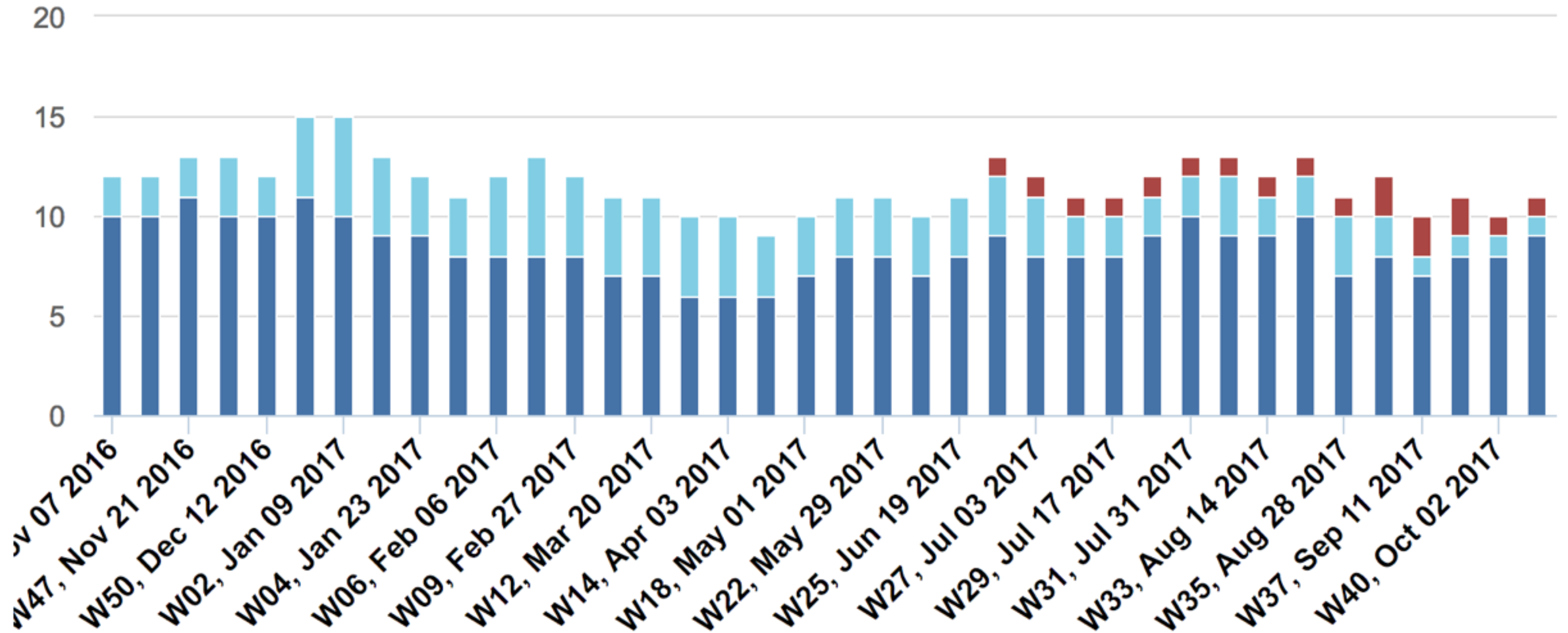




# Jira Core

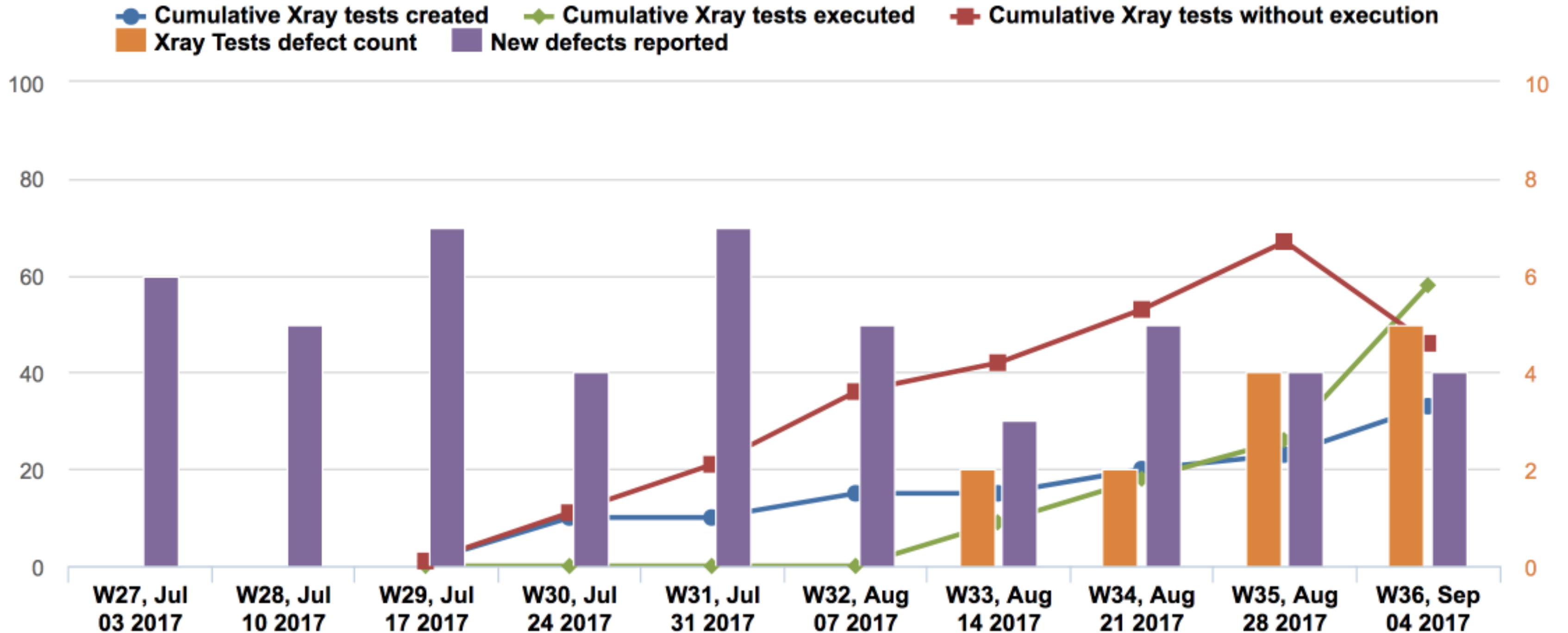
## Issues history

**In Progress**   **Under Review**   **Blocked Externally**



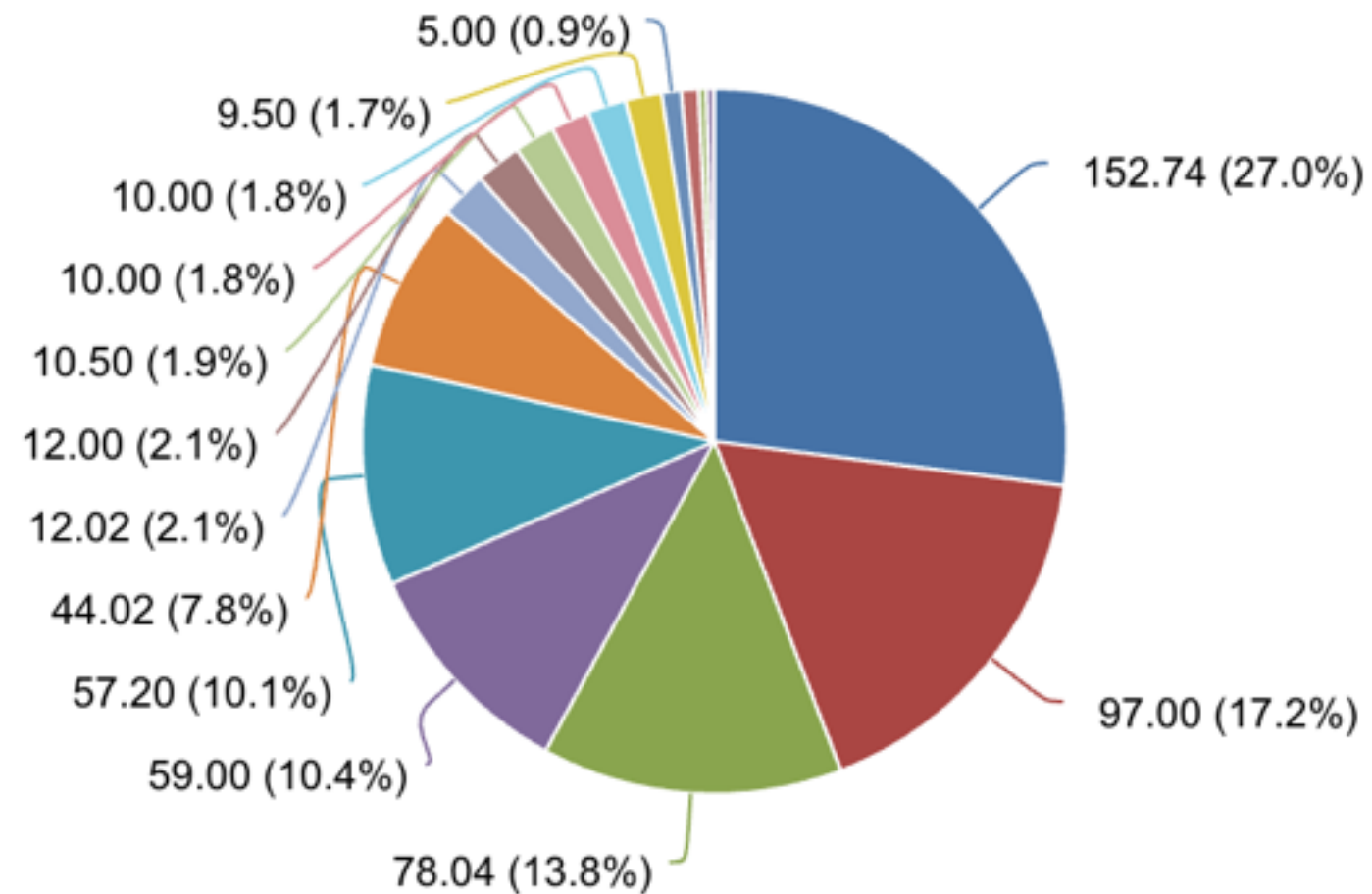


# Test Management



# Time Management

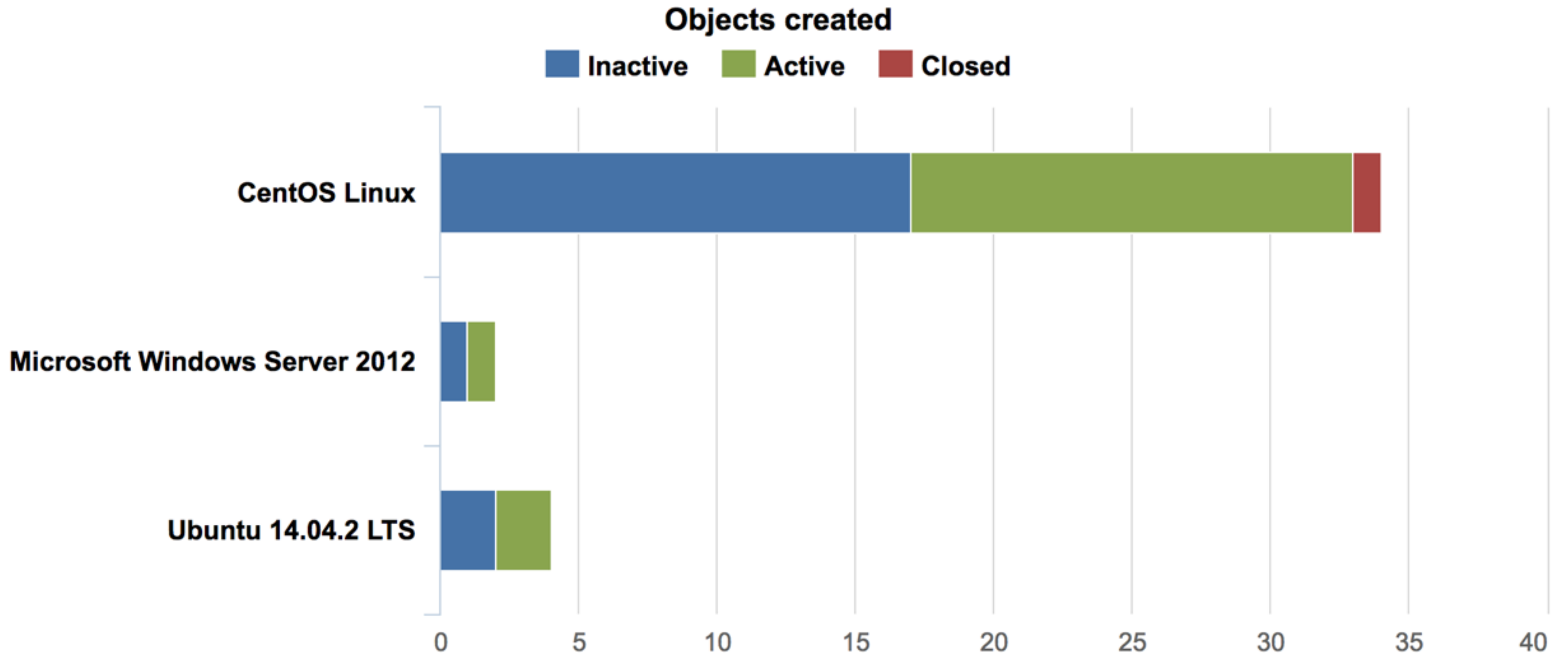
Hours spent: 565.52



- Bamboo
- Engine Room
- Activity Streams
- Fireball
- UI
- Studio Theme
- Documentation
- Studio AAL (deprecated)
- Repository Manager
- Applinks
- Google Apps
- Contegix
- Support Requested
- Usability
- A la carte
- User Management



# Asset Management



# Other data sources





# ATLASSIAN Marketplace



2,422 

## easyBI Reports and Charts for Jira

by EazyOne  Atlassian Verified

for JIRA Server 6.0 - 7.5.0 and more versions

SUPPORTED

DATA CENTER

Available for  
Jira Server, Jira Data Center,  
and Jira Cloud