

# Repository Analysis Report for Netron

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## 1 Introduction

In this report, I investigated an open source project (openstack/netron) from GitHub and studied module-level file changes of its master branch in the past six month. For the study, the top-12 active modules are investigated by following standard: 1) number of commits and 2) number of edition (lines of add and delete). For this report, commit records are collected through GitHub API and visualized by a python script.

## 2 Result

According to my script, there are **490 commits** occurred in the past six month. These commits include at least one file change under the */neutron* directory of the studied project. According to table 1, the top-12 active modules **by number of commits** are test, db, plugins, agents, services, extensions, objects, cmd, quota, common, conf and api.

module	commit
tests	773
db	282
plugins	267
services	154
agent	150
objects	92
common	54
conf	40
extensions	39
api	33
cmd	19
quota	11

Table 1: Details for Top-12 Most Active Modules under */neutron* by commits

Interestingly, although the modules are the same, the rank is different when sorting them based on number of editions. According to table 2, the top-12 active modules **by number of editions** are test, plugins, db, agents, services, extensions, objects, cmd, quota, common, conf and api.

module	total edition	addition	deletion
test	26556	19238	7318
plugins	6559	4275	2284
db	6303	4556	1747
agent	3827	2944	883
services	2786	1808	978
objects	1131	838	293
extensions	989	937	52
cmd	933	929	4
quota	560	178	382
api	523	314	209
conf	501	414	87
common	486	338	148

Table 2: Details for Top-12 Most Active Modules under /neutron by edition

In addition, I also visualized the top-12 active modules by editions and commits. Due to space limit, you may find more visualizations from the jupyter notebook.

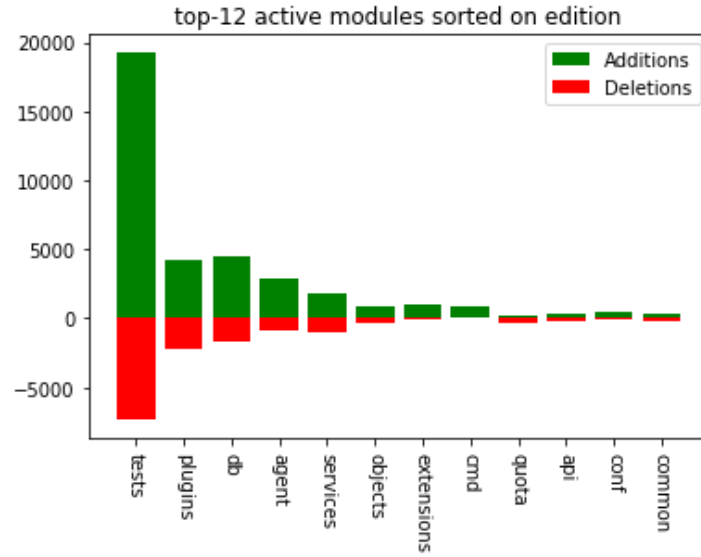


Figure 1: Bar Chart for Top-12 Active Modified Modules under /neutron by editions

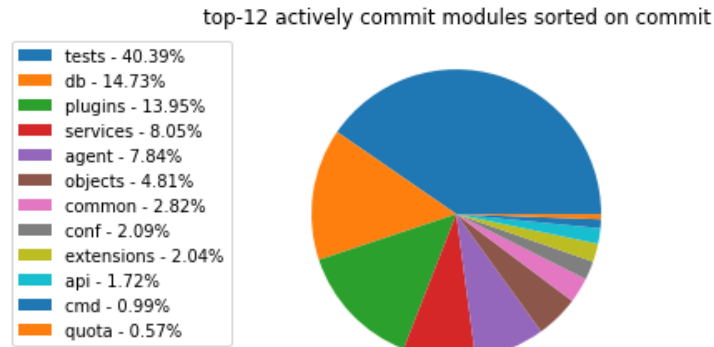


Figure 2: Pie Chart for Top-12 Active Modified Modules under /neutron by commits