# Datamining @Ubuntu

UDS-R - Copenhagen, Denmark - October 2012 Chris J Arges <a href="mailto:chris.j.arges@canonical.com">chris.j.arges@canonical.com</a>

#### **Premise**

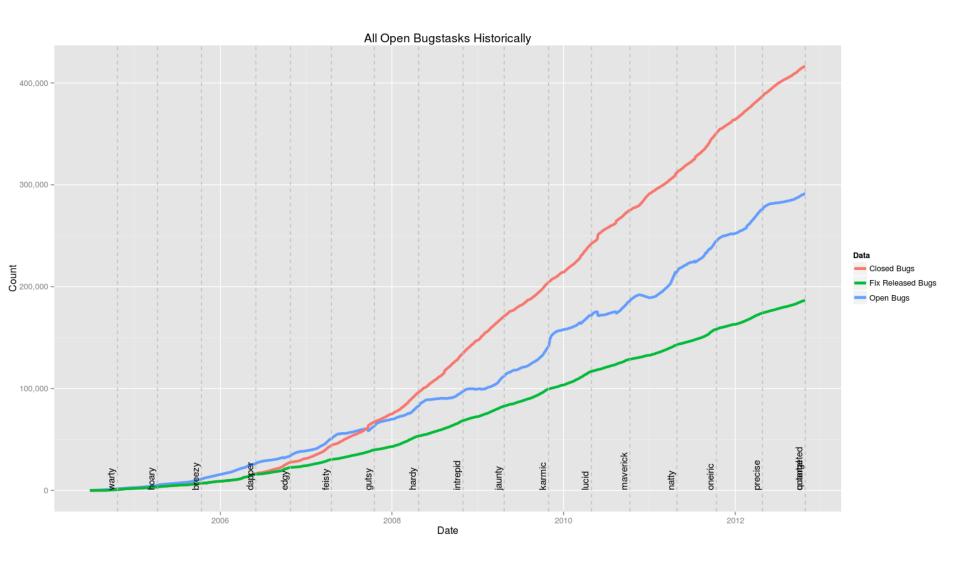
- Ubuntu generates a ton of data.
- Many bugs, only so many people to fix.
- Let's use the data to work more precisely!
- We fix a ton of bugs and we are improving!

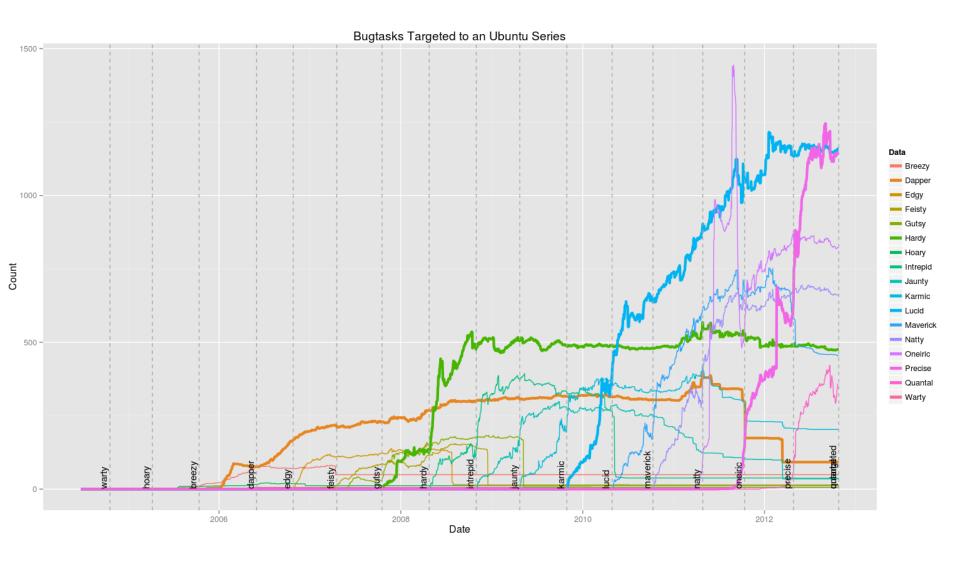
#### What was Done?

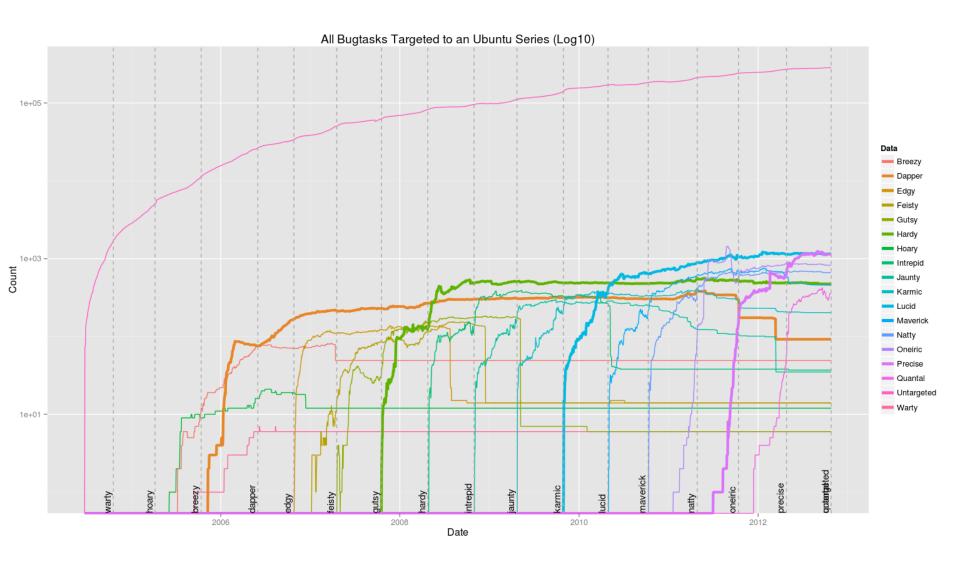
- Download from Launchpad into a database.
- Used 'R' language to take this data and produce graphs and explore entire dataset.
- Used data-mining packages in R to predict if a bug will be Invalid, and whom should work on the bug.

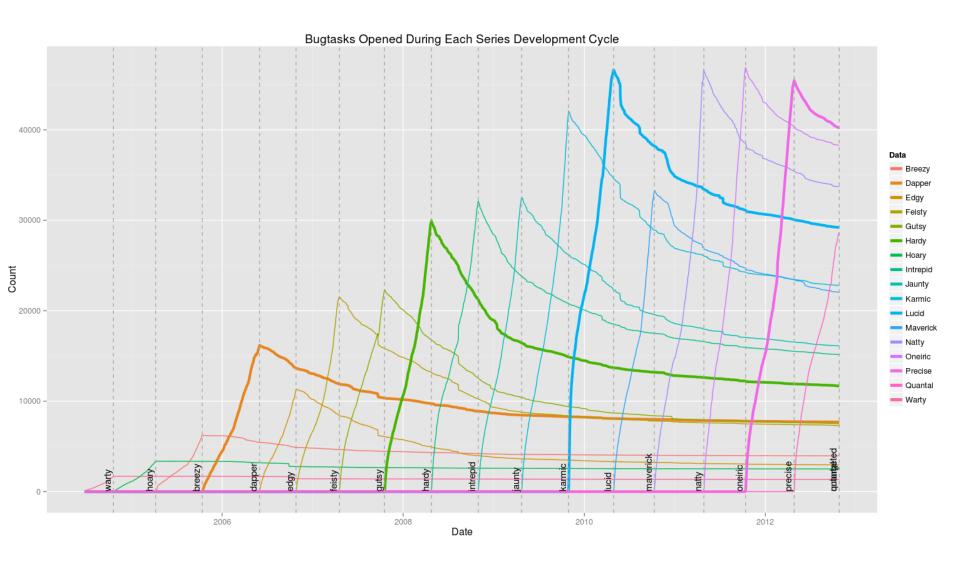
#### **Data**

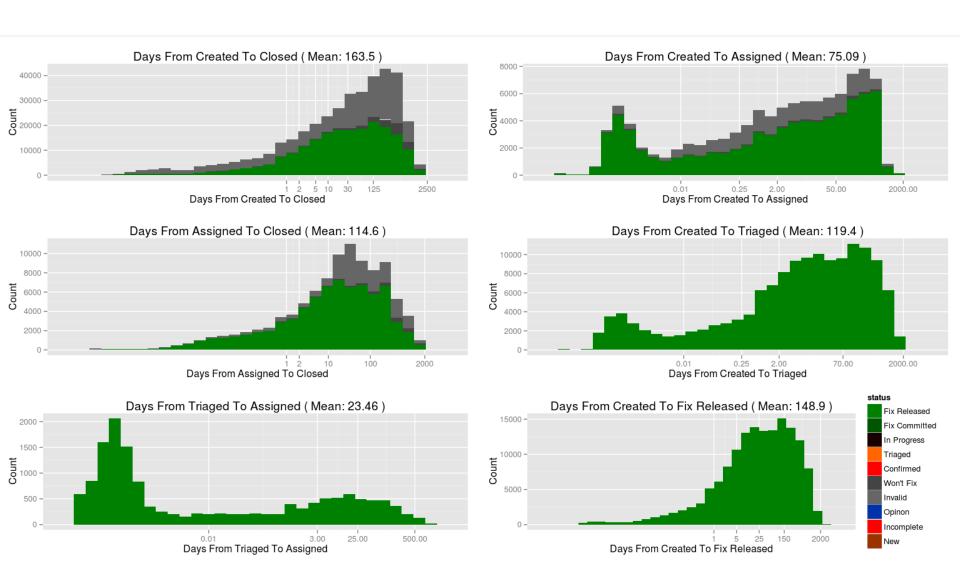
- 632,590 bugs
- 707,343 bugtasks
- From June 2004 to October 2012





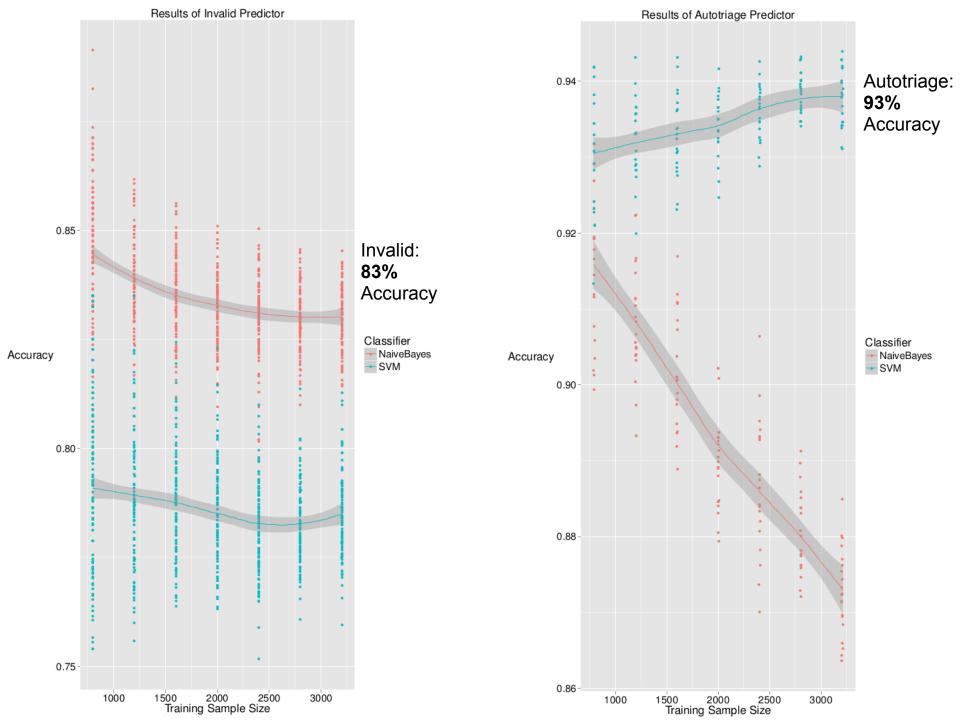






### **Hypothesis / Experiment**

- We have a ton of Invalid bugs!
  - Predict invalid bugs before we work on them.
- We take quite a bit of time to figure out who should fix a bug.
  - Automatically suggest/assign a person.



## **THANKS**

chrisarges.net/papers.html