Metrics in Open Source Communities

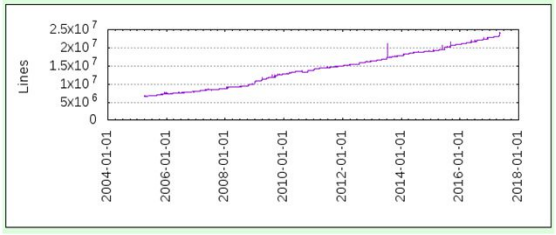
February 2, 2018

CHAOSS

Agenda

- What are we measuring and what do we do with the data?
- As communities evolve…
- Parting thoughts & questions

Author	Commits (%)	+ lines	- lines	First commit	Last commit	Age	Active days	# by commits
Linus Torvalds	22786 (3.36%)	6768385	63252	2005-04-16	2017-05-13	4409 days, 22:59:13	3531	1
David S. Miller	8716 (1.29%)	184759	156987	2005-04-16	2017-05-09	4405 days, 18:00:23	2659	2
Mark Brown	6734 (0.99%)	263261	118006	2006-02-01	2017-04-30	4105 days, 14:17:43	1550	3
Takashi Iwai	6053 (0.89%)	209684	211484	2005-03-24	2017-05-11	4430 days, 17:26:15	1877	4
H Hartley Sweeten	5931 (0.88%)	127595	199620	2009-03-31	2017-02-16	2878 days, 20:43:49	403	5
Al Viro	5852 (0.86%)	105582	142209	2005-04-03	2017-05-08	4418 days, 10:38:55	1233	6
Ingo Molnar	5284 (0.78%)	123662	94515	2005-04-18	2017-05-05	4399 days, 13:22:16	1552	7
Mauro Carvalho Chehab	4983 (0.74%)	487119	430589	2005-06-24	2017-04-19	4317 days, 8:55:39	1240	8
Arnd Bergmann	4614 (0.68%)	57073	101884	2005-05-18	2017-05-11	4376 days, 5:33:07	880	9
Greg Kroah-Hartman	4467 (0.66%)	895015	1098282	2002-04-09	2017-05-04	5504 days, 4:36:29	1235	10
Russell King	4194 (0.62%)	179092	155881	2005-01-24	2017-04-26	4474 days, 11:09:55	1370	11
Tejun Heo	4007 (0.59%)	152431	121330	2005-04-03	2017-05-01	4411 days, 0:29:08	977	12
Johannes Berg	3941 (0.58%)	209769	144403	2005-12-10	2017-05-05	4163 days, 8:11:29	1290	13
Thomas Gleixner	3618 (0.53%)	88686	84294	2005-01-18	2017-04-20	4474 days, 22:50:13	877	14
Hans Verkuil	3390 (0.50%)	224805	221142	2005-11-09	2017-04-17	4177 days, 6:28:26	902	15
Christoph Hellwig	3239 (0.48%)	158952	247899	2005-04-03	2017-05-11	4420 days, 15:41:54	882	16
Chris Wilson	2981 (0.44%)	98172	68595	2009-01-30	2017-04-22	3003 days, 12:05:15	864	17
Eric Dumazet	2933 (0.43%)	59507	47056	2005-06-22	2017-05-09	4338 days, 16:56:28	1407	18
Geert Uytterhoeven	2928 (0.43%)	80123	58695	2005-04-18	2017-05-08	4403 days, 6:07:53	848	19
Rafael J. Wysocki	2903 (0.43%)	71994	45919	2005-05-05	2017-05-09	4387 days, 2:09:33	1053	20



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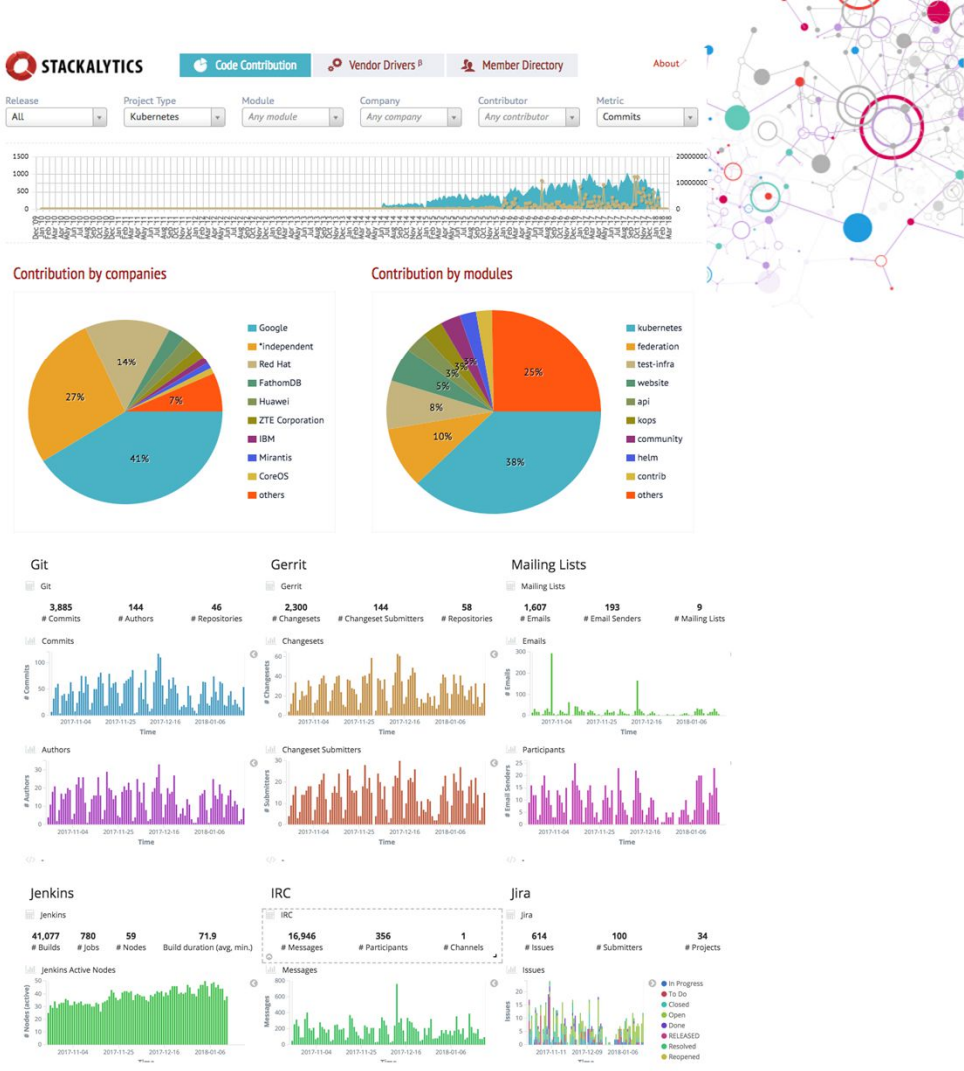
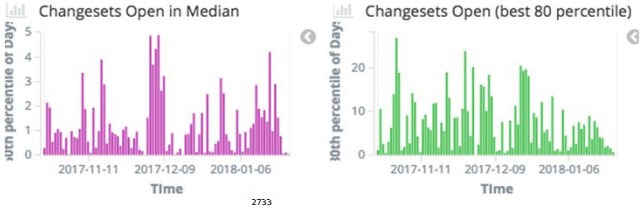
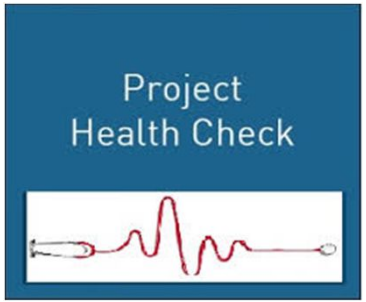


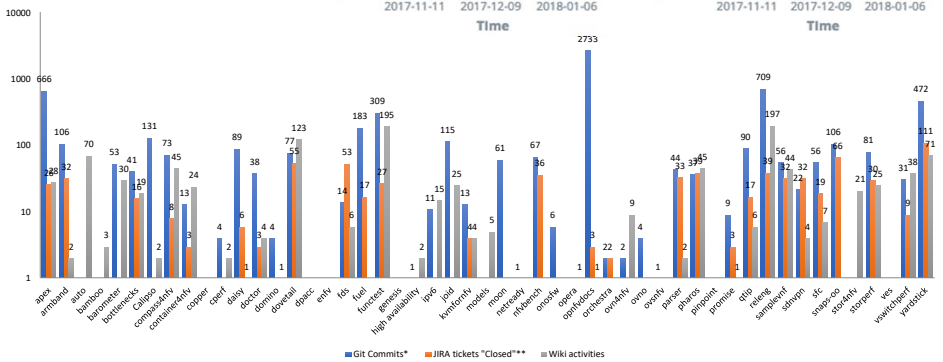
Identifying contributors

Going beyond contributors/contributions

Submitter	Changesets	Avg. Patchsets	Avg. Time Open (Days)
Alexandru Avadanii	373	1.592	2.846
Cedric Ollivier	135	1.6	1.277
Thomas Duval	95	1.126	0.356
Bryan Sullivan	71	1.211	1.262
wulin wang	58	2.5	3.949
Michael Polenchuk	56	1.536	4.198
Fatih Degirmenci	53	2.264	4.489
Steven Pisarski	52	1.558	1.818







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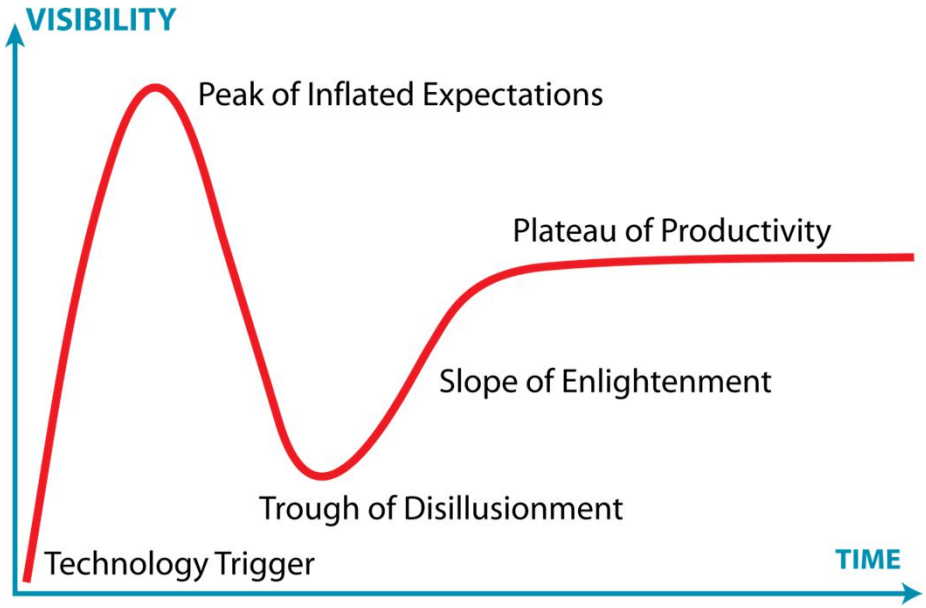
Lifecycle of a project



- Do the same set of metrics make sense over the lifetime of your project?
- Is it always a bad sign when “numbers” go down?

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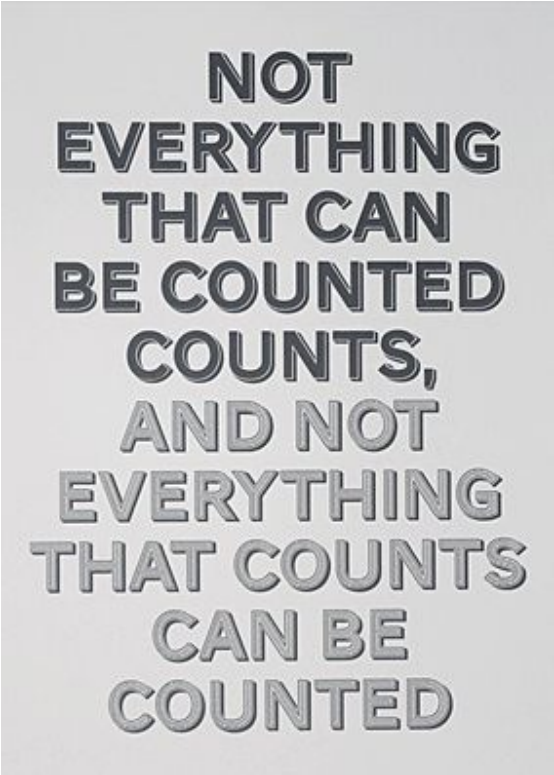
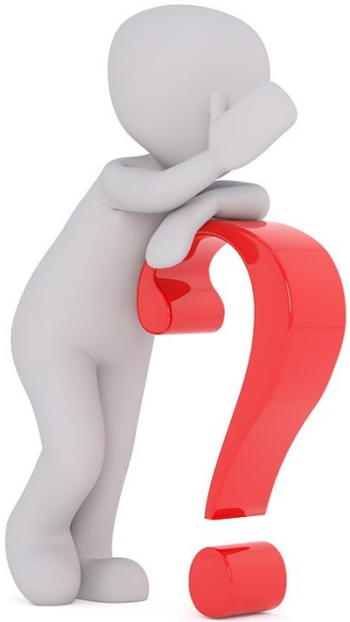


- What are the numbers telling me?
- What about things that can not be “counted”?

Questions



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