Leading a Team with Values



Rich Archbold

Director of Engineering at

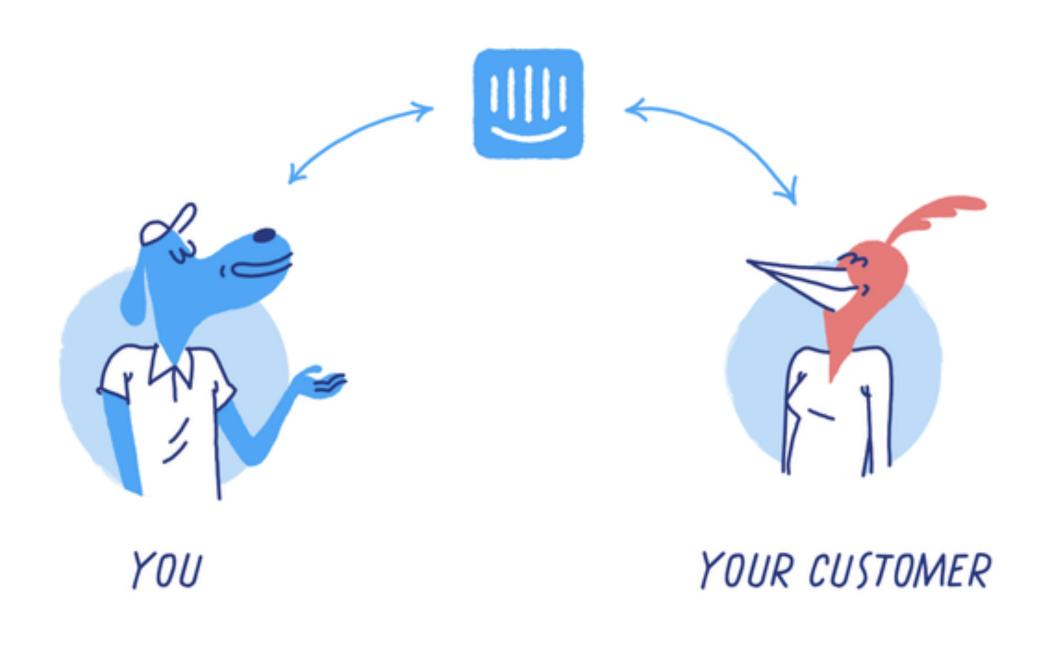
Intercom

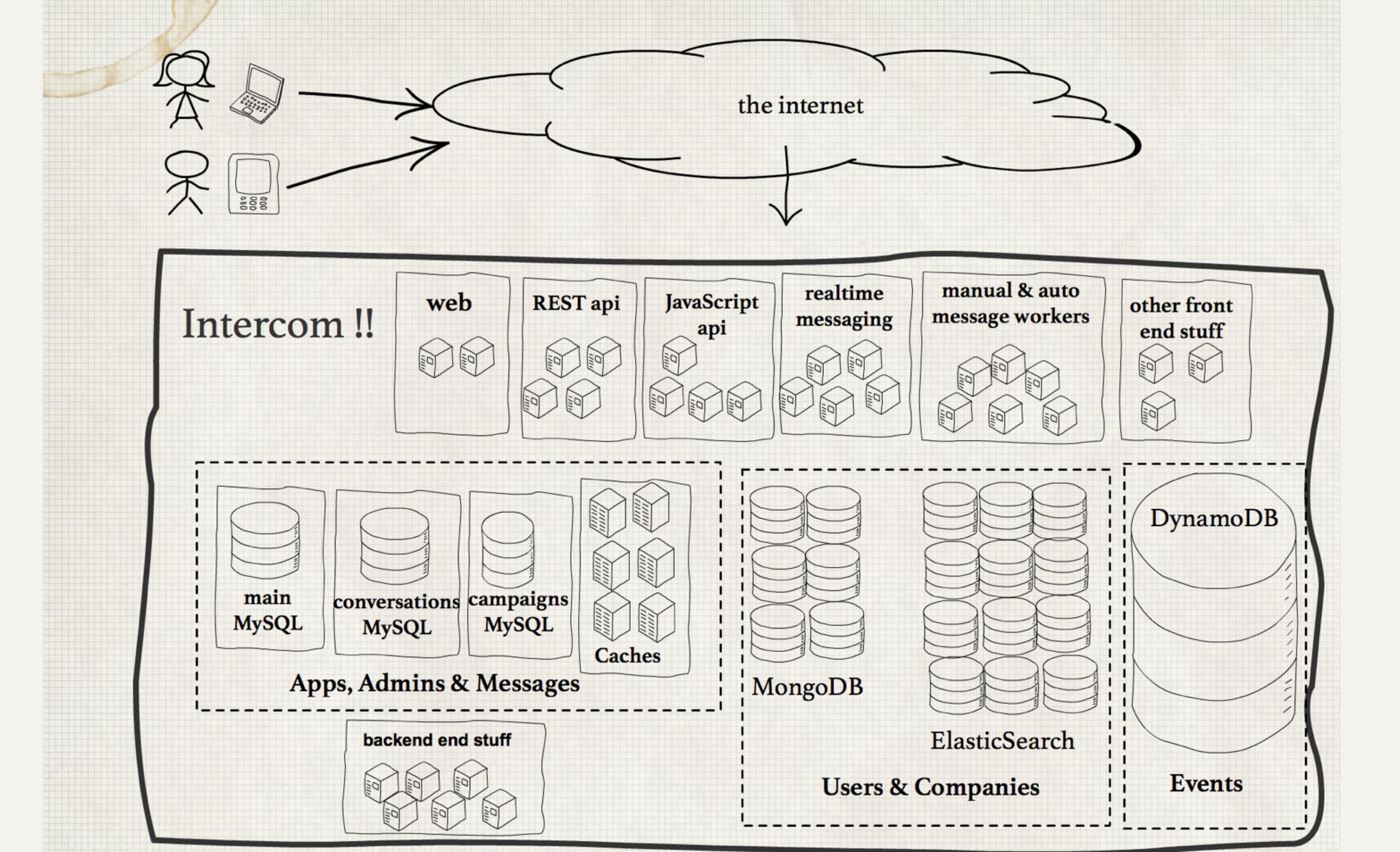
@rich_archbold

THE OLD WAY

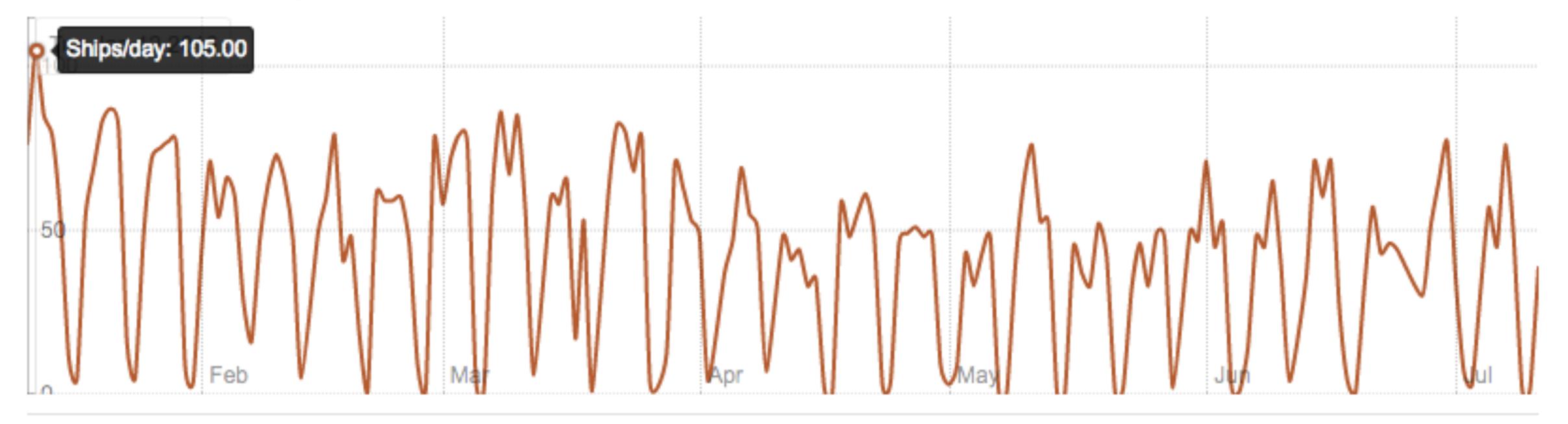
MARKETING AUTOMATION CUSTOMER DATABASE HELPDESK HELPDESK LIVE CHAT

THE NEW WAY





Ships / day















































Mission

Vison

Strategy

Values

Plans

Execution

Mission

Vison

Strategy

Values

Plans

Execution

Mission

Vison

Strategy

Values

Plans

Execution

Checklists for Teams

THE NEW YORK TIMES BESTSELLER

THE CHECKLIST MANIFESTO

HOW TO GET THINGS RIGHT

PICADOR

ATUL GAWANDE

BESTSELLING AUTHOR OF BETTER AND COMPLICATIONS

Toward a Theory of Medical Fallibility*

SAMUEL GOROVITZ† AND ALASDAIR MACINTYRE‡

No species of fallibility is more important or less understood than fallibility in medical practice. The physician's propensity for damaging error is widely denied, perhaps because it is so intensely feared. Patients who suffer at the hands of their physicians often seek compensation by invoking the procedures of malpractice claims, and physicians view such claims as perhaps the only outcomes more earnestly to be avoided than claims as perhaps the only outcomes more earnestly to be avoided than even the damaging errors from which they presumably arise. Malpractice insurance rates soar, physicians strike, legislatures intervene, and, in the end, health care suffers from the absence of a clear understanding of what medical error is, how it arises, to what extent it is avoidable, when it is culpable, and what relationship it should bear to compensation for harm. It is to this cluster of questions that we direct our efforts.

We seek to provide the basic outlines of a theory of medical fallibility. Any such theory, to be accepted as adequate, must account for certain basic data. Those data include the facts that medical error not only occurs but seems unavoidable; that some medical error seems inno-

We are deeply indebted to the constructive criticisms which earlier versions of this paper received.

- * This paper is the result of a research project at the Institute of Society, Ethics, and the Life Sciences, Hastings-on-Hudson, New York, on the foundations of ethics and its relationship to science, supported by a grant from the National Endowment for the Humanities. A full set of papers from the first year of that research program will appear in H. Tristram Engelhardt, Jr., and Daniel Callahan, eds., Science, Ethics and Medicine, to be published by the Institute of Society, Ethics, and the Life Sciences.
 - † University of Maryland.
 - ‡ Boston University.

The Journal of Medicine and Philosophy, 1976, vol. 1, no. 1.
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Reasons for failure

- 1. Ignorance
- 2. Ineptitude







checklists

Surgical Safety Checklist



Before induction of anaesthesia	Before skin incision	Before patient leaves operating room
(with at least nurse and anaesthetist)	(with nurse, anaesthetist and surgeon)	(with nurse, anaesthetist and surgeon)
Has the patient confirmed his/her identity, site, procedure, and consent? Yes Is the site marked?	 □ Confirm all team members have introduced themselves by name and role. □ Confirm the patient's name, procedure, and where the incision will be made. 	Nurse Verbally Confirms: The name of the procedure Completion of instrument, sponge and needle counts Specimen labelling (read specimen labels aloud,
☐ Yes ☐ Not applicable Is the anaesthesia machine and medication	the last 60 minutes?	including patient name) Whether there are any equipment problems to be
check complete? Yes Is the pulse oximeter on the patient and functioning? Yes	Anticipated Critical Events To Surgeon: What are the critical or non-routine steps?	To Surgeon, Anaesthetist and Nurse: ☐ What are the key concerns for recovery and management of this patient?
Does the patient have a:	 ☐ How long will the case take? ☐ What is the anticipated blood loss? 	
Known allergy? ☐ No ☐ Yes	To Anaesthetist: Are there any patient-specific concerns? To Nursing Team:	
Difficult airway or aspiration risk? ☐ No ☐ Yes, and equipment/assistance available	 ☐ Has sterility (including indicator results) been confirmed? ☐ Are there equipment issues or any concerns? 	
Risk of >500ml blood loss (7ml/kg in children)? No Yes, and two IVs/central access and fluids planned	Is essential imaging displayed? ☐ Yes ☐ Not applicable	

This checklist is not intended to be comprehensive. Additions and modifications to fit local practice are encouraged.

Revised 1 / 2009 © WHO, 2009

Surgical Safety Checklist





Before induction of anaesthesia	Before skin incision	Before patient leaves operating room
(with at least nurse and anaesthetist)	(with nurse, anaesthetist and surgeon)	(with nurse, anaesthetist and surgeon)
Has the patient confirmed his/her identity, site, procedure, and consent? Yes Is the site marked? Yes Not applicable	 □ Confirm all team members have introduced themselves by name and role. □ Confirm the patient's name, procedure, and where the incision will be made. Has antibiotic prophylaxis been given within the last 60 minutes? 	Nurse Verbally Confirms: The name of the procedure Completion of instrument, sponge and needle counts Specimen labelling (read specimen labels aloud, including patient name)
Is the anaesthesia machine and medication check complete? Yes	☐ Yes ☐ Not applicable Anticipated Critical Events	 □ Whether there are any equipment problems to be addressed To Surgeon, Anaesthetist and Nurse: □ What are the key concerns for recovery and
Is the pulse oximeter on the patient and functioning? — Yes Does the patient have a:	To Surgeon: ☐ What are the critical or non-routine steps? ☐ How long will the case take? ☐ What is the anticipated blood loss?	management of this patient?
Known allergy? No Yes	To Anaesthetist: Are there any patient-specific concerns? To Nursing Team:	
Difficult airway or aspiration risk? ☐ No ☐ Yes, and equipment/assistance available	 ☐ Has sterility (including indicator results) been confirmed? ☐ Are there equipment issues or any concerns? 	
Risk of >500ml blood loss (7ml/kg in children)? No Yes, and two IVs/central access and fluids planned	Is essential imaging displayed? ☐ Yes ☐ Not applicable	

Complications
11% 7%

This checklist is not intended to be comprehensive. Additions and modifications to fit local practice are encouraged.

Revised 1 / 2009

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checklists prevent failures of ineptitude

Mission

Vison

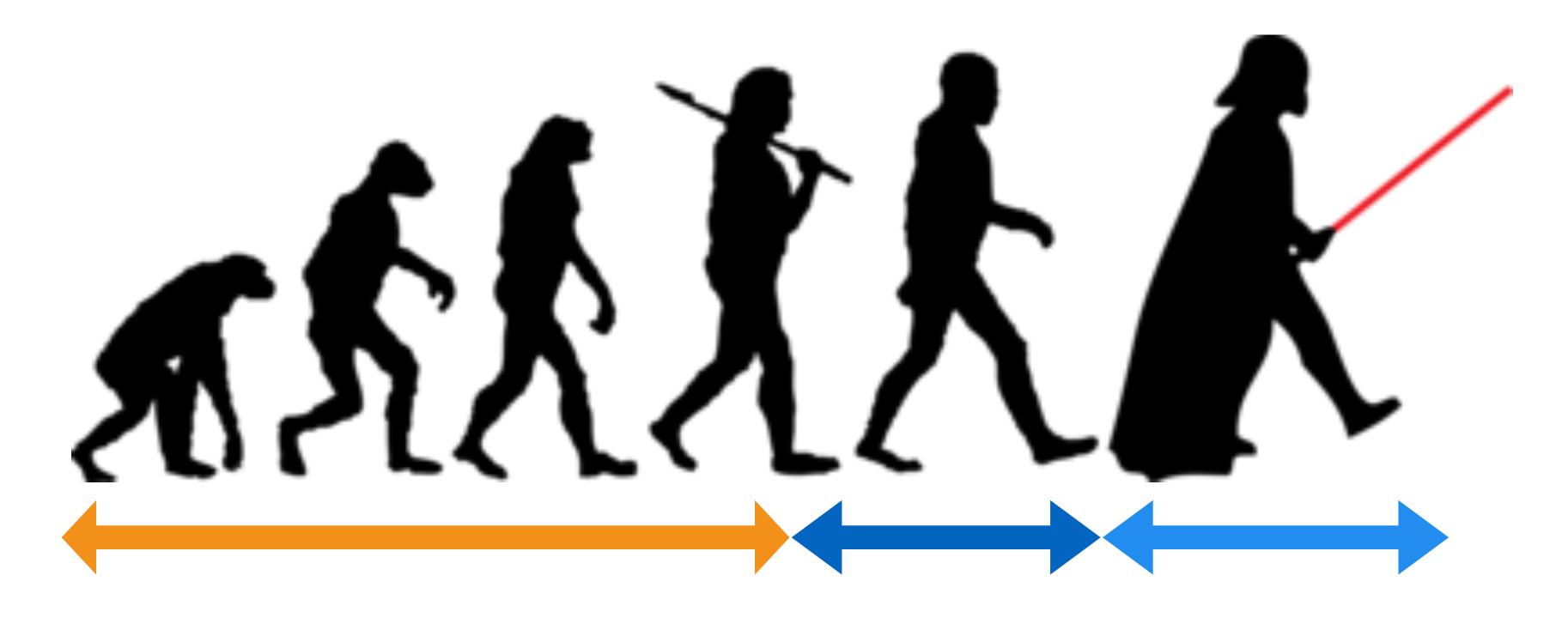
Strategy

Values

Plans

Execution

Checklists for Teams



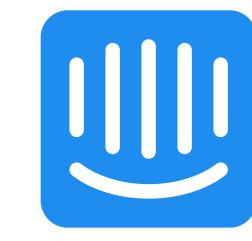
7.7 yrs



1.3 yrs



2.1 yrs







Position: Director of Ops

Reporting to: Ciaran Lee, CTO

Responsibilities:

- Maintaining and improving the performance, availability, cost effectiveness, and security
 of our production infrastructure. This will include:
 - Helping to define the metrics by which the the team will be measured and held accountable
 - Creating a roadmap which is designed to improve the metrics and cater for growth
 - Building and running the systems that support production:
 - build/deploy
 - metrics
 - logging
 - Working with other teams to ensure that the product runs efficiently

Mission Vison Strategy Company Values Plans Execution



Mission Vison Strategy Company Values Plans Execution





























Metrics: Good, but not great

Plans: Roadmap Randomisation

Execution: Late Projects

Team:









Mission Vison Strategy Company Values Plans

Execution

Mission

Vison

Strategy

Company Values

Team Values

Plans

Execution

Value #1

















Value #1

















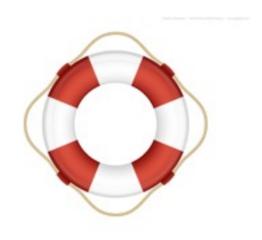
Security, Availability, Performance, Scalability, Cost – prioritize for maximum impact

Prioritize



Value #2



















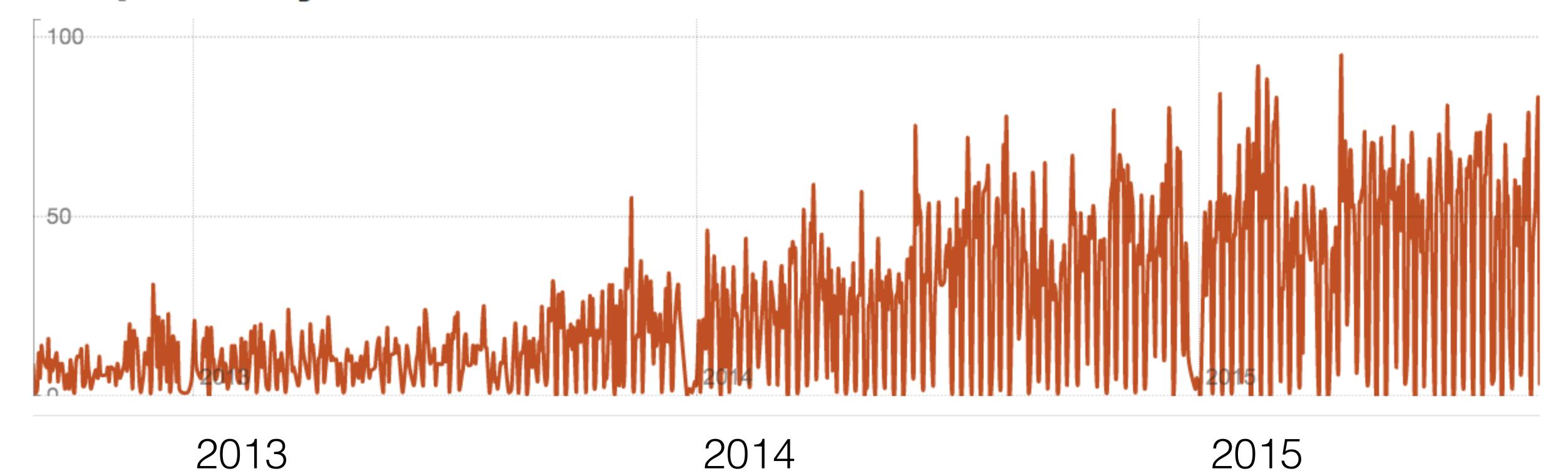






Faster, Safer, Easier, Shipping

Ships / day









Fixing a bug in production







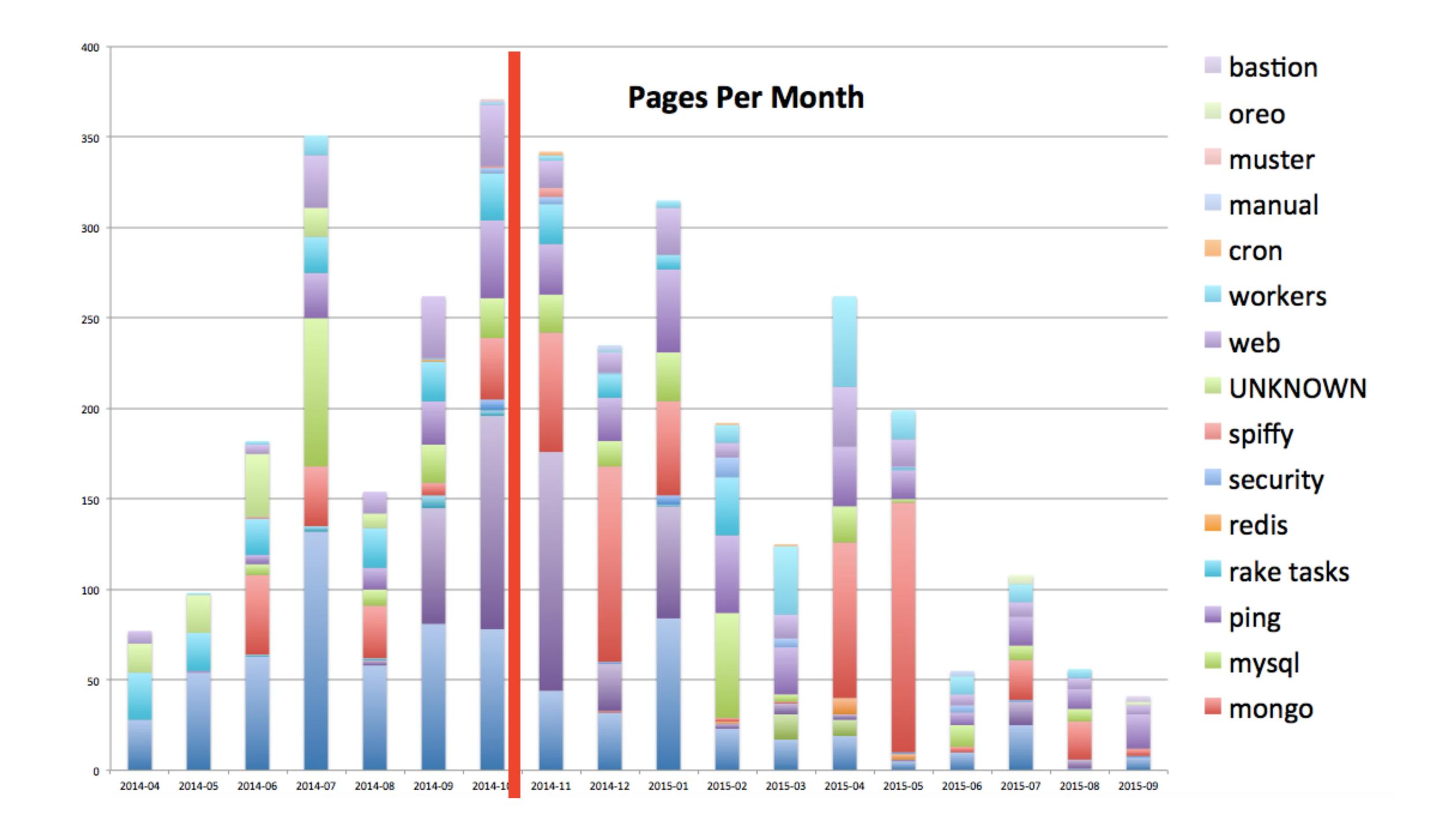




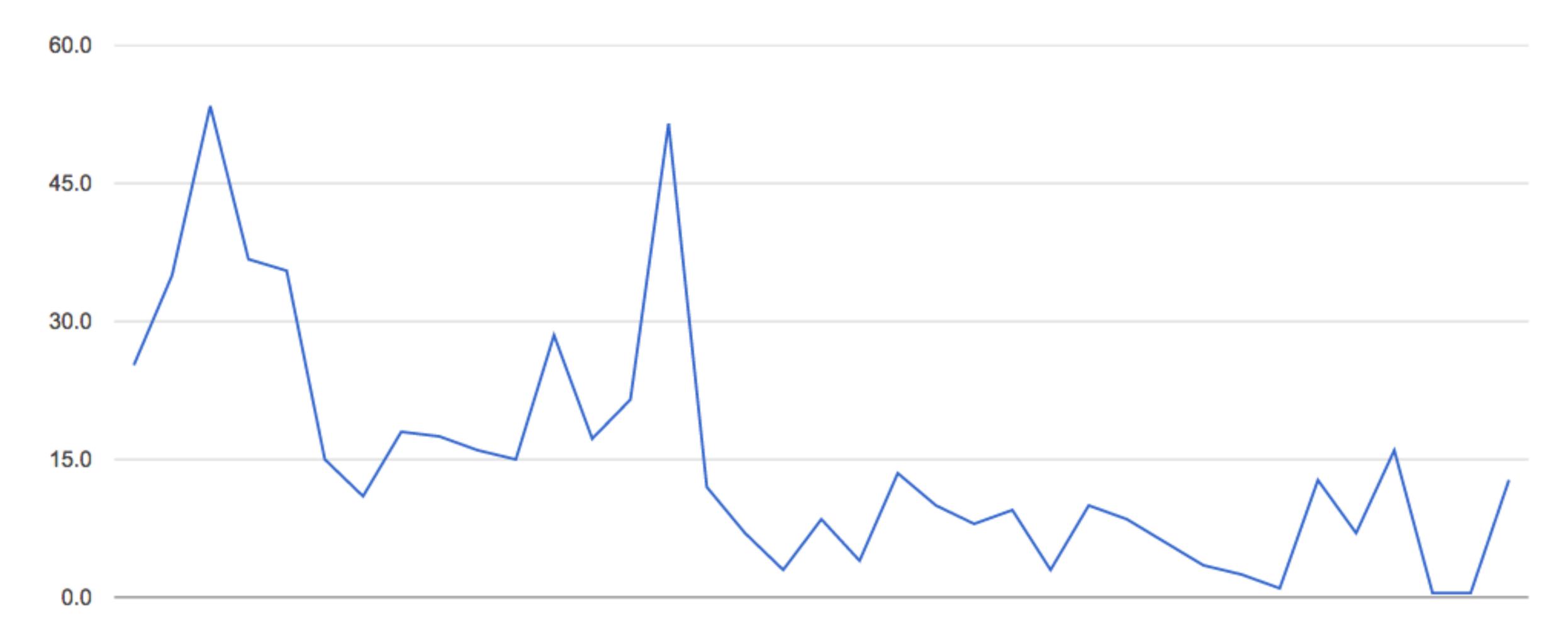




Zero Touch Ops



Unscheduled work hours



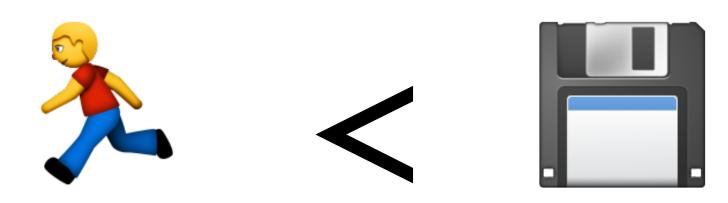
-	-	Hours 🖾	in office	_		
Date	Week	Spent	hours?	Who?	Issue	Category
07/03/2015	10	5	no	danny	sidekiq redis hit maxmemory	redis
10/03/2015	11	1.5	yes	danny	looker access for analytics	helping product team
11/03/2015	11	1	yes	danny	building + adding phantomjs to intercom AMI	helping product team
11/03/2015	11	1	yes	danny	uploads malware	security
11/03/2015	11	1	yes	danny	web app slowness investigation	арр
11/03/2015	11	1	yes	matthew	uploads malware	security
11/03/2015	11	1	yes	matthew	fleet churning	aws
11/03/2015	11	1	yes	alex	health check	aws
11/03/2015	11	0.5	yes	eugene	figuring out whether we need to support ie8 on XP	security
11/03/2015	11	1	no	eugene	uploads malware	security
12/03/2015	11	5	yes	matthew	es GC investigating	elasticsearch
12/03/2015	11	1	yes	alex	ELB HC investigation	aws
13/03/2015	11	1	yes	alex	ELB HC investigation	aws
15/03/2015	12	4	yes	matthew	es mappting foo	elasticsearch
		-				•

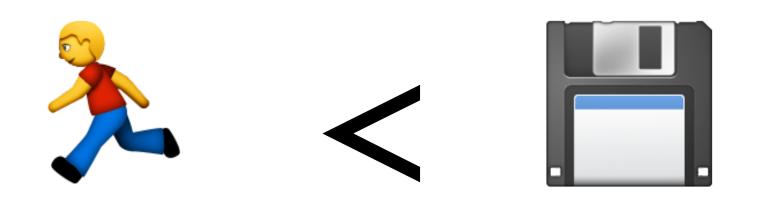
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week#	Total Available Engineer Hours	Unscheduled Hours - Allocation	Estimated Usable Hours	Unscheduled Hours - Actual	Unscheduled allocation overrun	% actual usable	% roadmap hustle commits	% hustle commits done
29	65	8.3	57	6.0	-2.31	91%	50%	50%
30	105	8.6	96	3.5	-5.06	97%	60%	60%
31	90	7.3	83	2.5	-4.81	97%	57%	43%
32	95	6.4	89	1.0	-5.38	99%	38%	100%
33	90	5.5	85	12.8	7.25	86%	44%	67%
34	75	5.9	69	7.0	1.09	91%	57%	86%
35	75	6.4	69	16.0	9.59	79%	50%	75%
36	115	7.2	108	0.5	-6.66	100%	75%	75%
37	115	6.2	109	0.5	-5.66	100%	40%	60%
38	95	5.5	90	12.8	7.28	87%	44%	
39								
40								
41								
Average	108.8		91.7	15.0	-2.7	86%	50%	74%
				Unsched Actual			Planned Progress	37%
							Planning Multiplier	2.7
				05.0		700/	EEO/	740/
			Q1	25.6		78%	55%	74%
			Q2	13.0		88%	48%	76%
			Q3	6.8		92%	48%	72%

85	12.8	7.25	86%	44%	67%
69	7.0	1.09	91%	57%	86%
69	16.0	9.59	79%	50%	75%
108	0.5	-6.66	100%	75%	75%
109	0.5	-5.66	100%	40%	60%
90	12.8	7.28	87%	44%	
91.7	15.0	-2.7	86%	50%	74%
	Unsched Actual			Planned Progress	37%
				Planning Multiplier	2.7
Q1	25.6		78%	55%	74%
Q2	13.0		88%	48%	76%
Q3	6.8		92%	48%	72%

Multiply all roadmap estimates by 2.7

92% usable engineering time





Run Less Software



Checklist for using our Values

Plans: Roadmap Randomisation

Execution: Late Projects

Team:



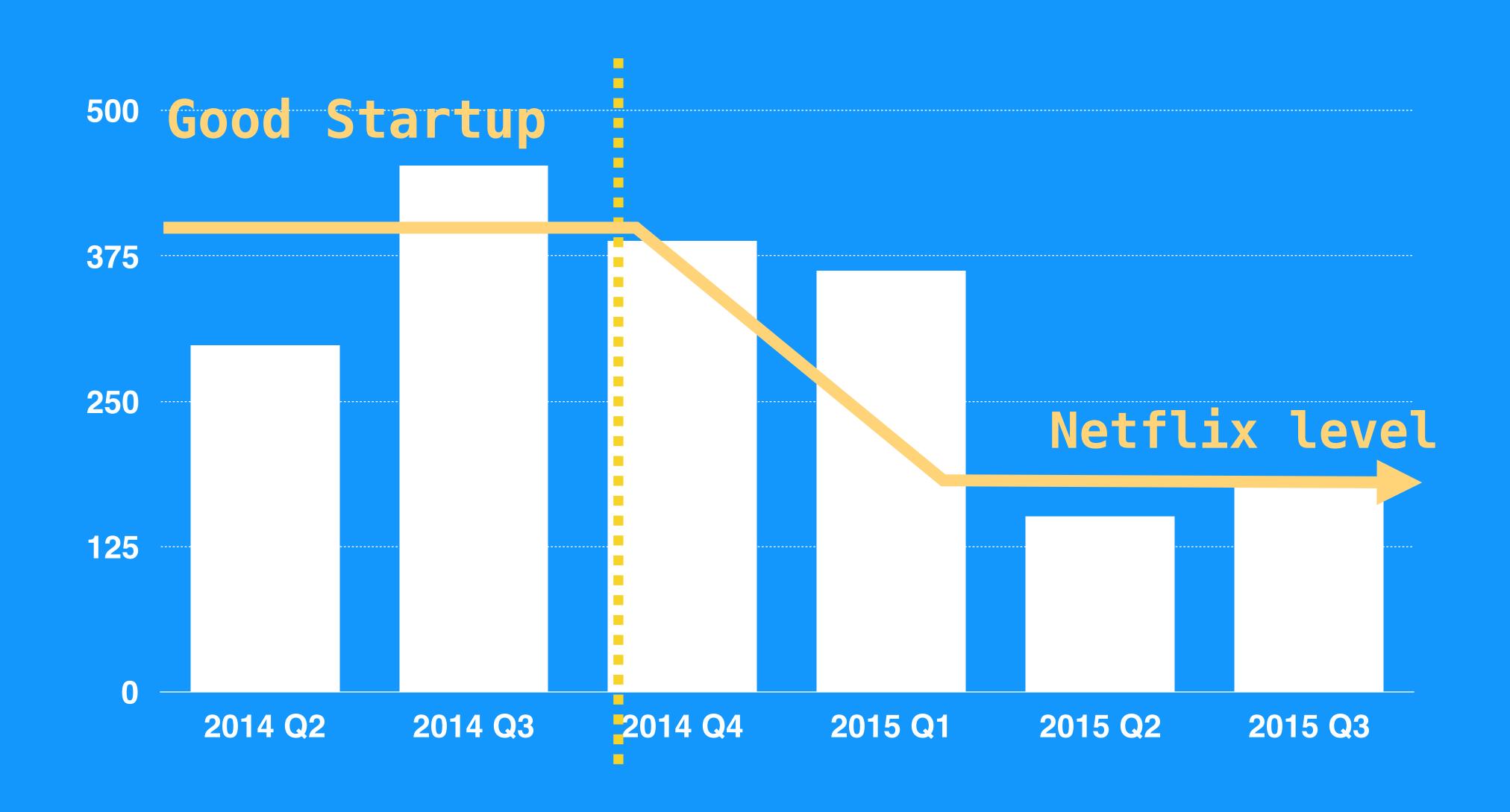
Checklist for using our Values

Plans: Quarterly Planning

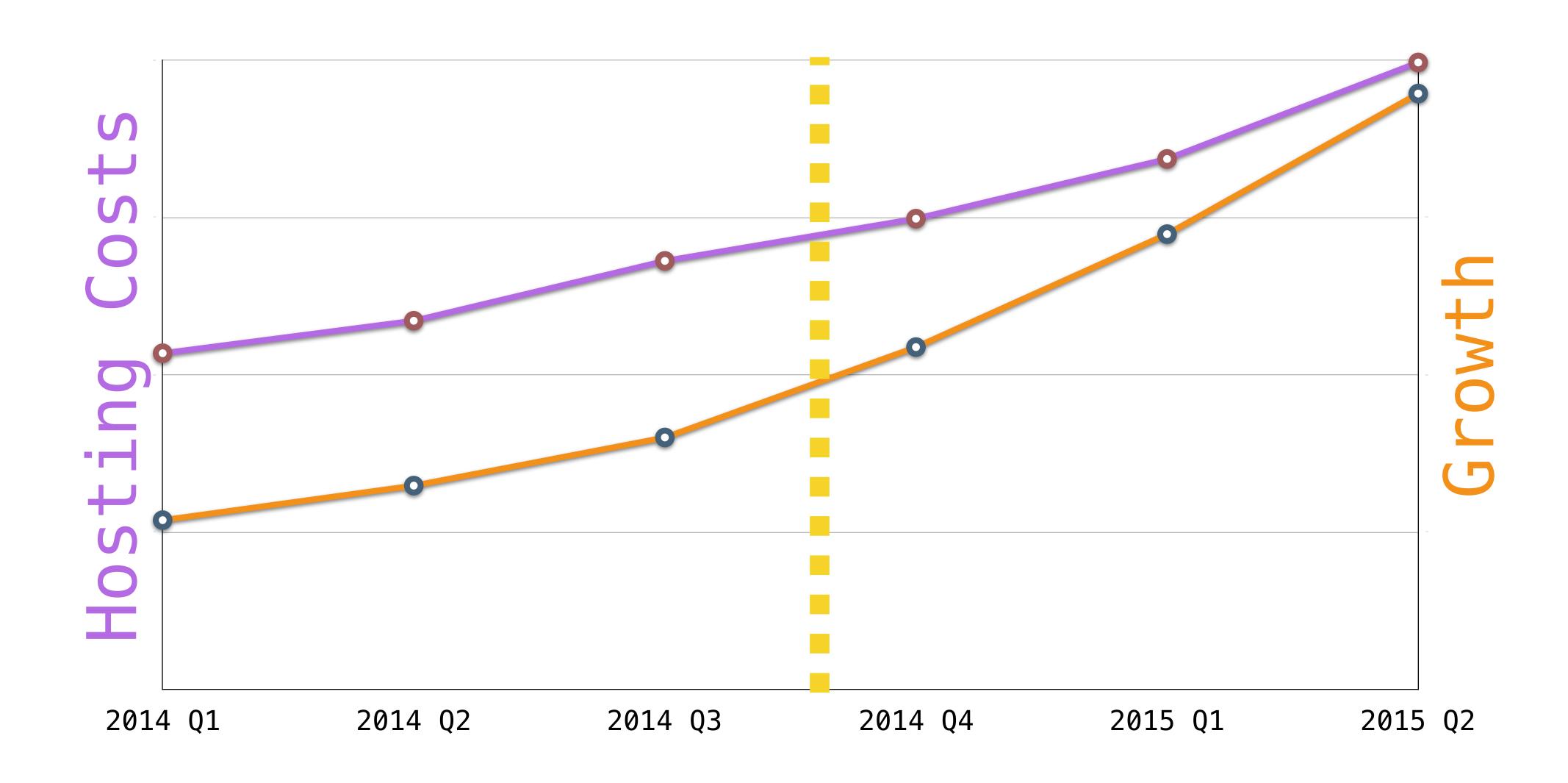
Execution: Weekly Planning

Team: Teammate Onboarding

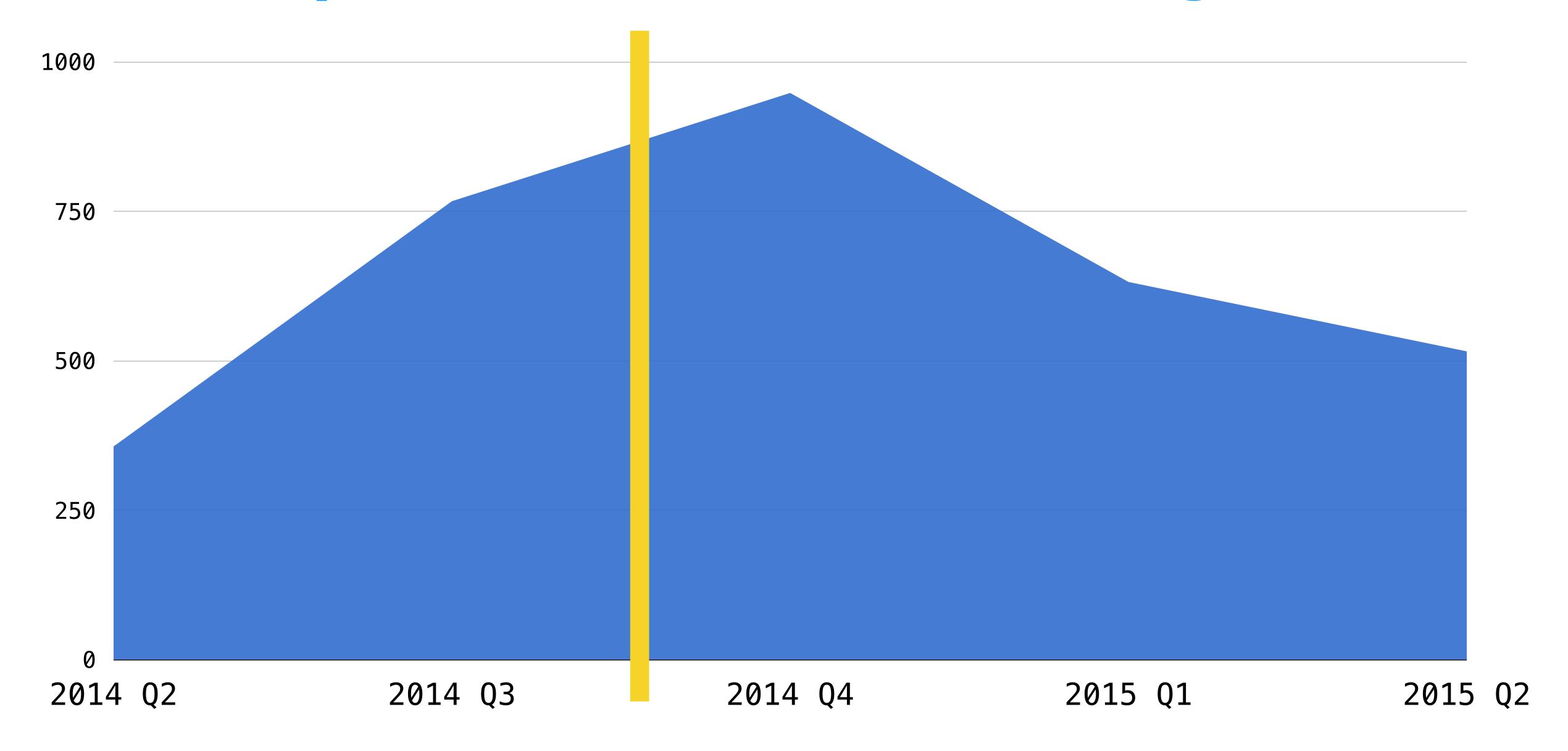
Availability: Outage Minutes



Cost versus Growth



Operational Pain & Pages



core values FTW!



but what about the other team?



My Family Values

Have pride and respect for our our home

A place for everything and everything in its place

Everyone does their share

Make 1:1 time for each other

Teach and encourage our children

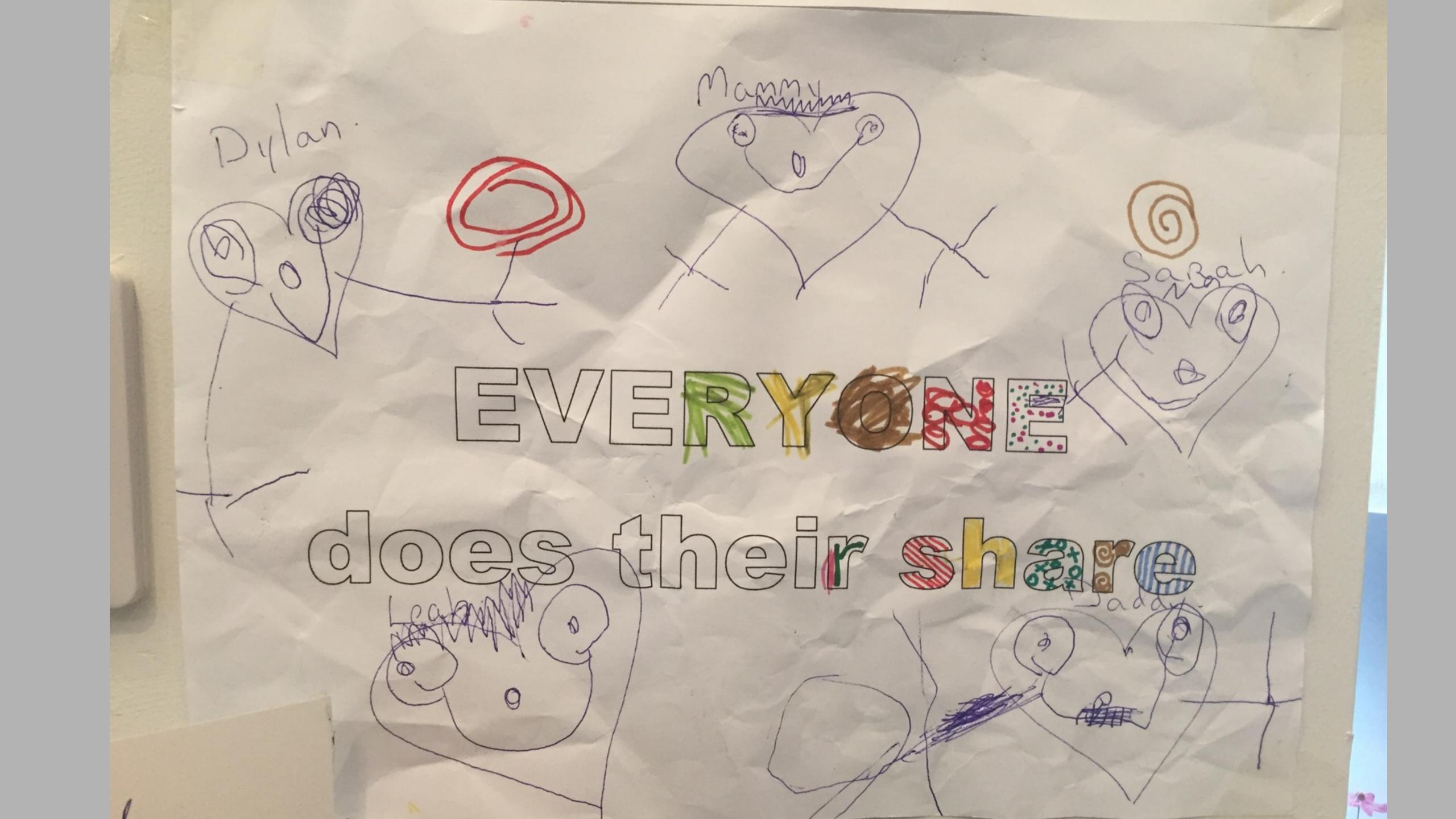
a place for everything



everything in its place













Questions?

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intercom.io/
intercom.io/
@rich_achbold

btw - we're hiring!