

2017 Application Developer Survey

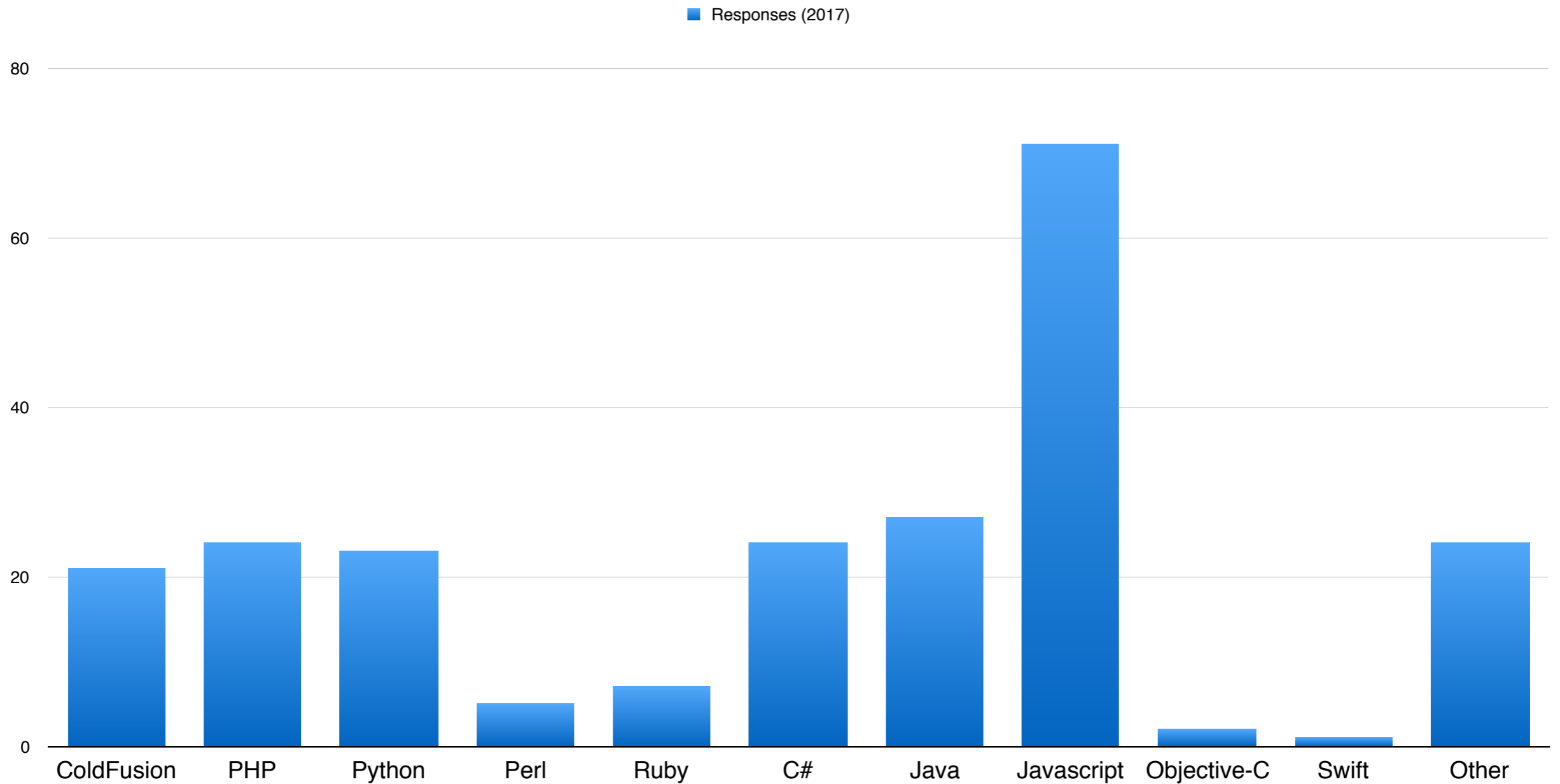
Survey Methodology

- Anonymous Qualtrics link sent via e-mail (UCD SMTP, cmthielen@ucdavis.edu to each address individually)
- Surveyed entire set of last year + new members found via CareerTracks entries
- Number of surveys (including partial) about the same: 156 (2016) to 157 (2017)
- 2016 vs 2017 respondents may differ

Data Points are Stories

Primary Language(s)

(Must have responded "Yes" to App Dev as Primary role; multiple selections allowed)



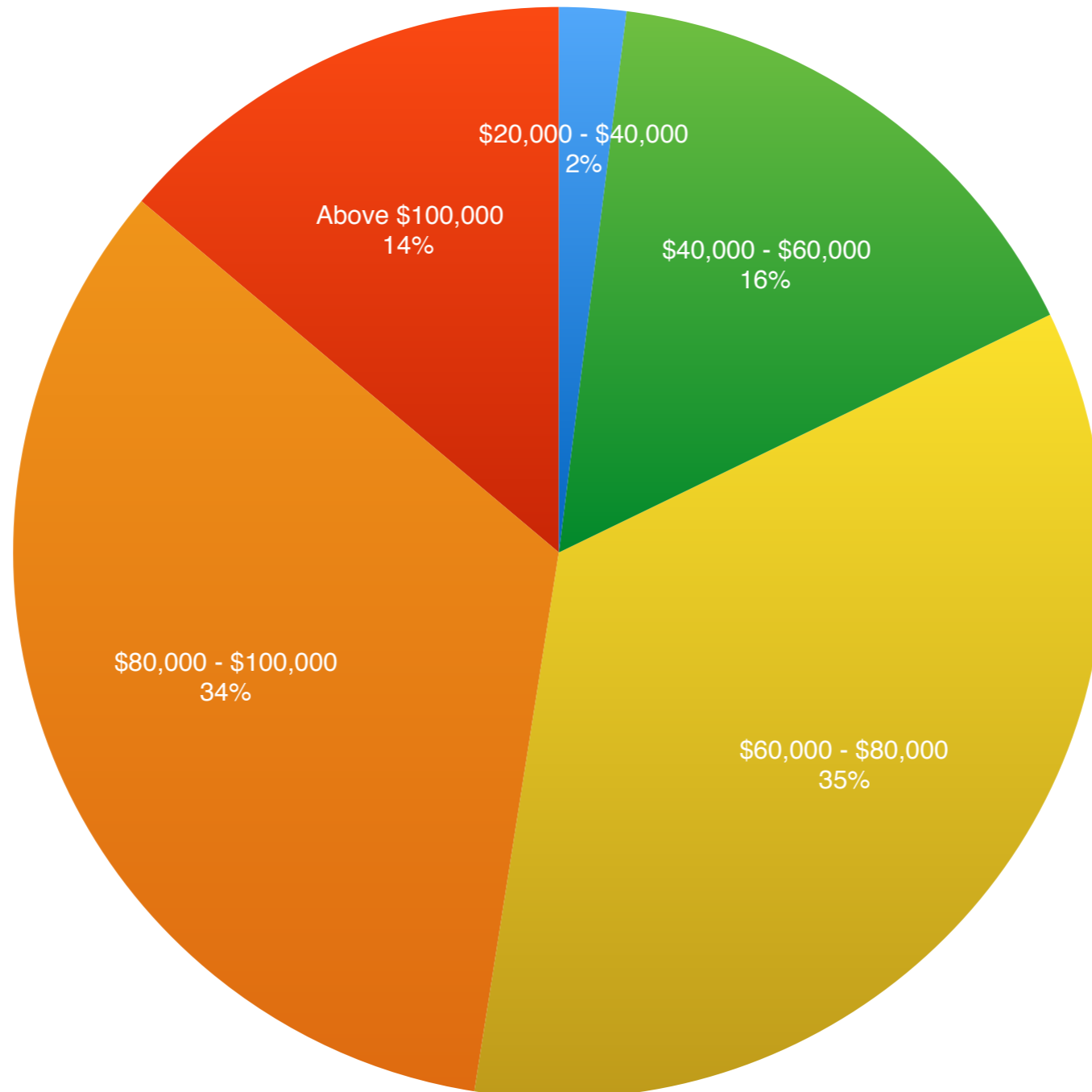
Primary Language(s)

(Must have responded "Yes" to App Dev as Primary role; multiple selections allowed)

	Responses (2017)	Responses (2016)	YoY (%)		
ColdFusion	21	23%	20	21%	1%
PHP	24	26%	28	30%	-4%
Python	23	25%	17	18%	7%
Perl	5	5%	7	7%	-2%
Ruby	7	8%	6	6%	1%
C#	24	26%	22	23%	2%
Java	27	29%	40	43%	-14%
Javascript	71	76%	83	88%	-12%
Objective-C	2	2%	0	0%	2%
Swift	1	1%	0	0%	1%
Other	24	26%	28	30%	-4%
Total	93		94		

Salary

(Optional, 64% responded)



Salary

(Optional, 64% responded)

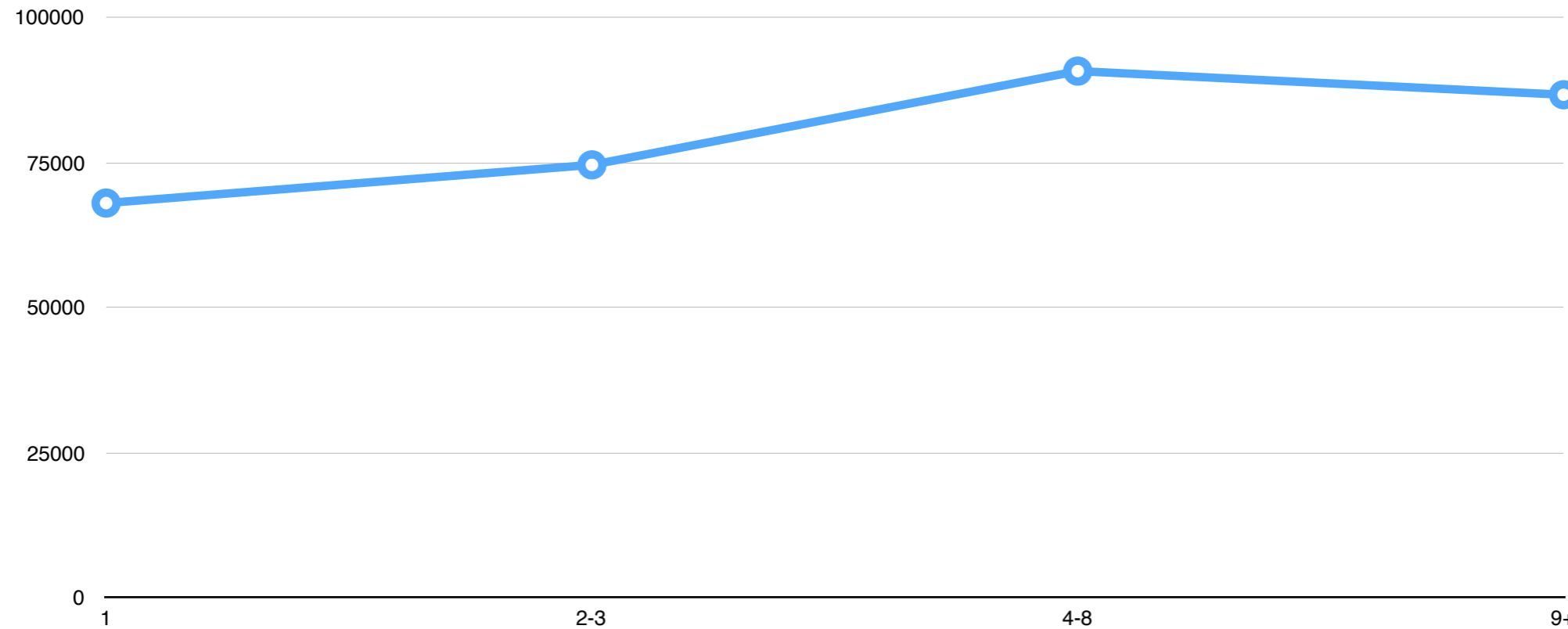
Weighted average: \$78,309

Title	Citation	Salary (Sacramento area)
Application Developer (indeed.com)	indeed.com	\$99,736.00
Software Engineer (indeed.com)	indeed.com	\$97,872.00
Web Developer (indeed.com)	indeed.com	\$85,664.00
Application Developer (glassdoor.com)	glassdoor.com	\$90,187.00
Software Engineer (glassdoor.com)	glassdoor.com	\$84,560.00
Web Developer (glassdoor.com)	glassdoor.com	\$61,874.00
Average		\$86,648.83
Min		\$61,874.00
Max		\$99,736.00

Team Size

Answer (2016)	%	Count	Answer (2017)	%	Count	YoY (%)
1	17.83%	23	1	20.57%	29	2.74%
2-3	35.66%	46	2-3	45.39%	64	9.73%
4-8	34.11%	44	4-8	26.24%	37	-7.87%
9+	12.4%	16	9+	7.8%	11	-4.60%
Total	100%	129	Total	100%	141	0.00%
Average		4.4804			3.77285	-16%

Team Size vs Salary



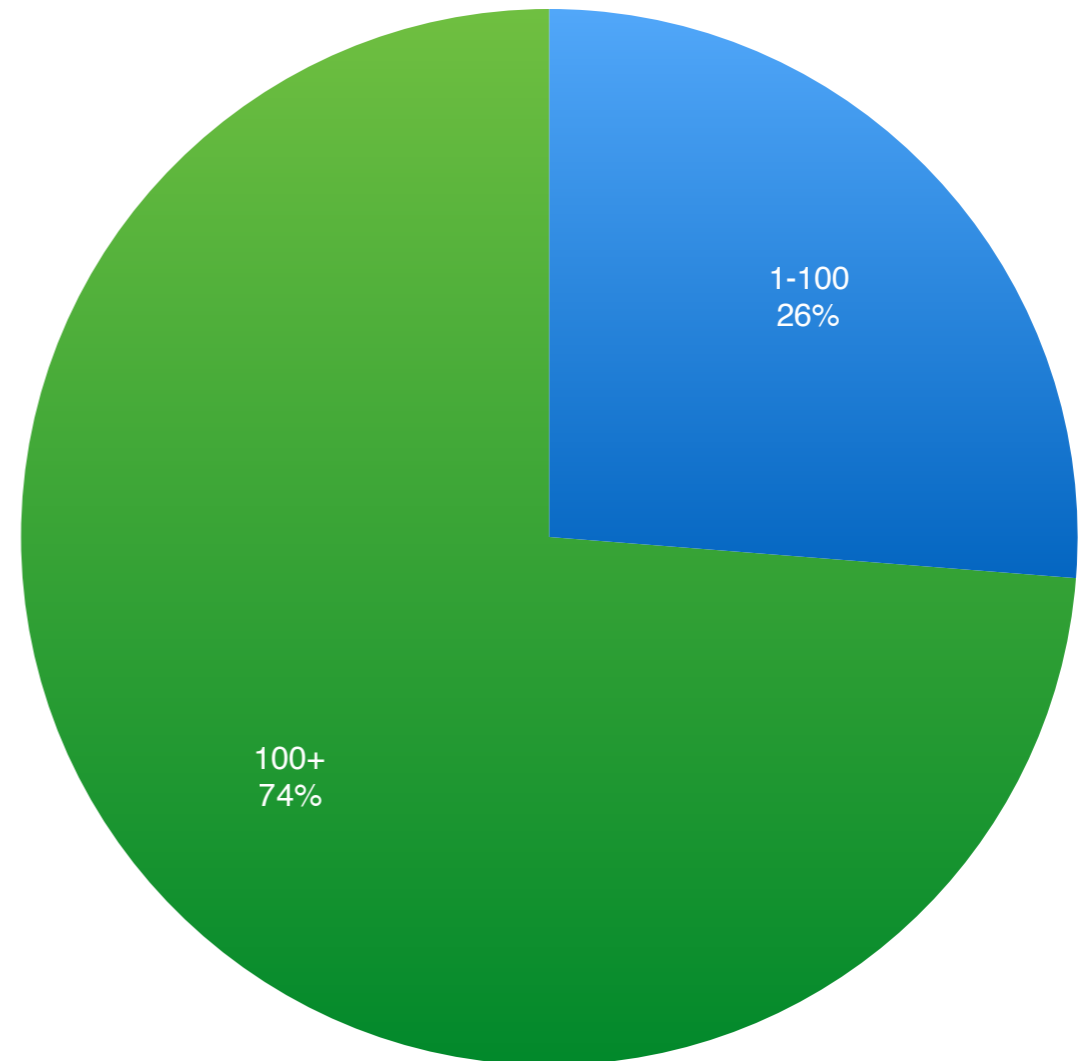
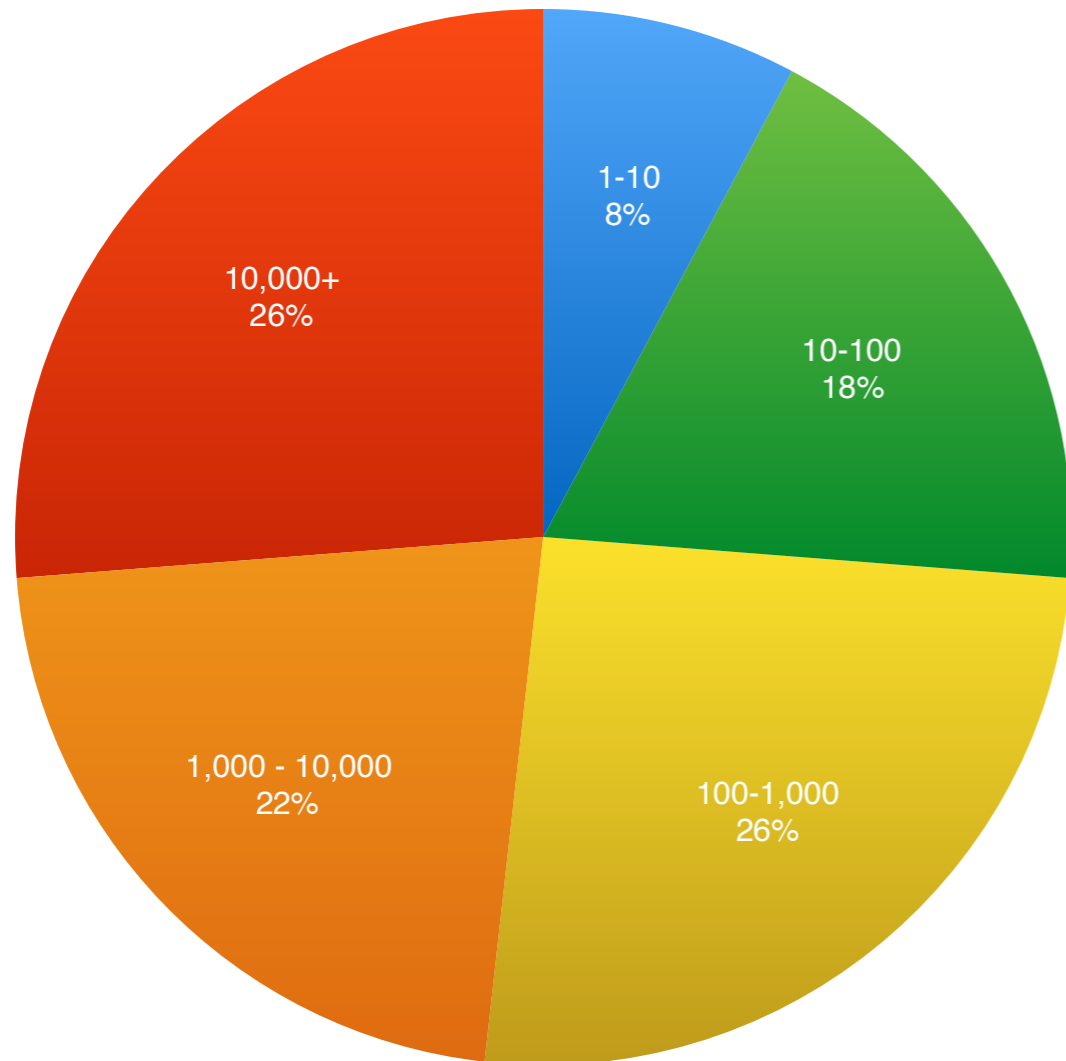
	1	2-3	4-8	9+
\$20,000 - \$40,000	2	0	0	0
\$40,000 - \$60,000	5	11	0	0
\$60,000 - \$80,000	7	19	7	2
\$80,000 - \$100,000	5	14	12	3
\$100,000+	1	4	8	1
Total	20	48	27	6
Average*	\$68,000.00	\$74,583.00	\$90,740.00	\$86,666.00
Represented	\$7,909,960.00			

Campus Documentation Quality

“If you need access or information about a campus system or practice, how difficult is it to find a satisfactory answer?”

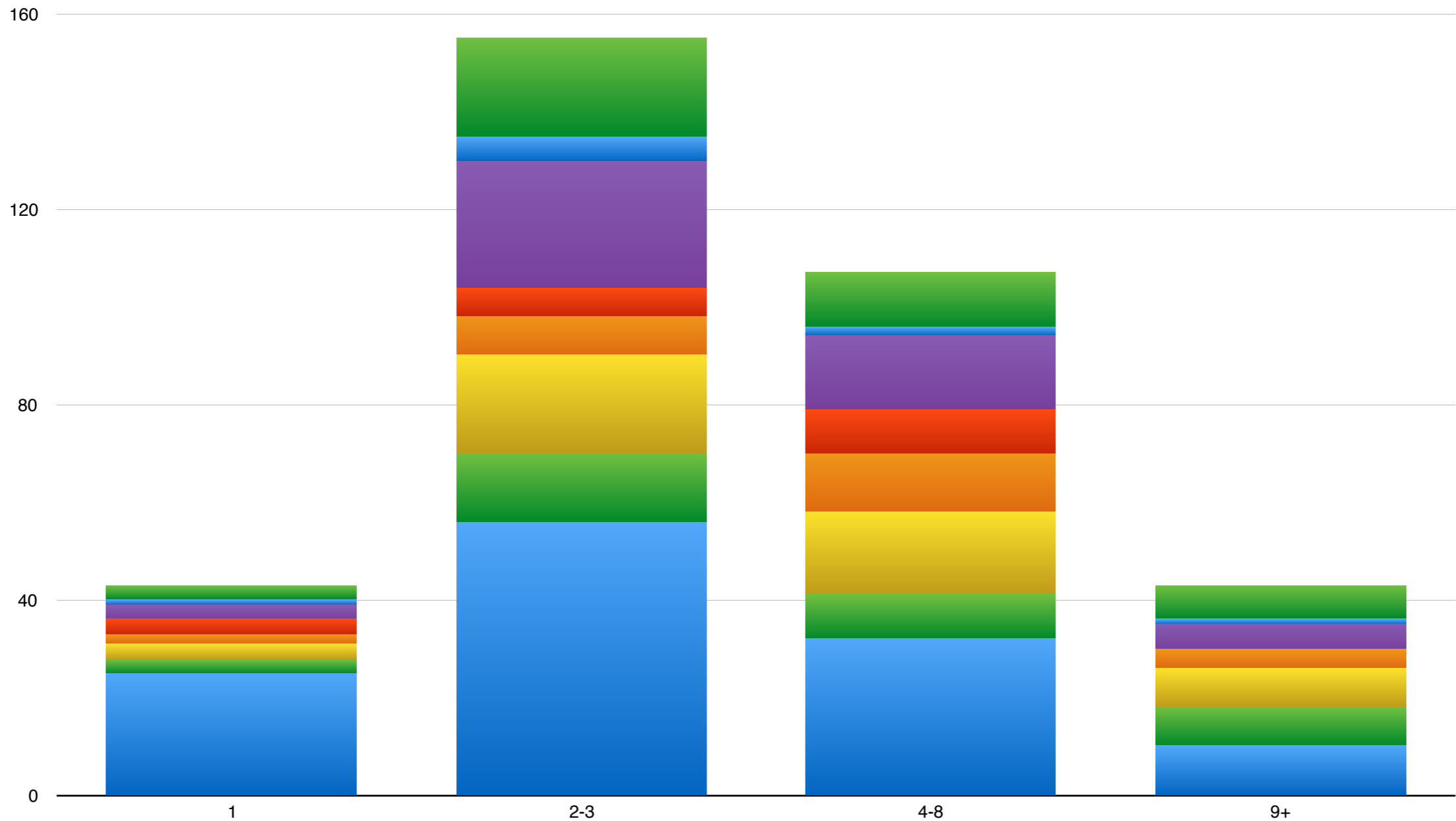
	%	Count	% (Opinionated)
Easy to find answers (well-documented, responsive point of contact, etc.)	13.39%	17	17%
Neither easy nor hard to find answers	29.13%	37	37%
Often hard to find answers (many days, e-mails, phone calls required)	36.22%	46	46%
No opinion	21.26%	27	N/A
Total	100%	127	N/A
Total (opinionated)	79%	100	100%

Largest Application by User Count



Dedicated Roles with Team Size

- Full-stack developer (does everything)
- Backend developer (specializes in server-side concerns)
- Testing developer (specializes in writing tests)
- Other
- Frontend developer (specializes in browser Javascript)
- DevOps engineer (specializes in deployment concerns)
- System administrator (maintains servers)
- Designer (UX/UI, HTML/CSS)



Other Data Points

- Mostly male (at least 81%)
- Most consider their technology adoption “moderate”, as opposed to “bleeding edge” or “dinosaur”
- Oracle, MySQL, and SQL Server reign supreme. NoSQL usage low.
- 87% use revision control
- 52.71% use no testing framework
- 66% use no continuous integration tool(s)

Other Data Points (cont'd)

- AWS usage up 53%, all other providers close to no change
- Application monitoring low (21% no monitoring, 51% exception monitoring, 52% ping monitoring, 28% responsiveness monitoring)
- About 2/3s feel “there is” administrative support for their work
- High job satisfaction (51%), Neither High nor Low (37%), Low (9%), No Answer (2%)
- Collaboration low (48% infrequently collaborate, 34% have never collaborated)
- 71% attend SIG or subscribe to some community mailing list (e.g. TSP, App Dev)
- At least 72% would prefer more communication and collaboration across campus

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(Minimally processed raw data can be made available.)