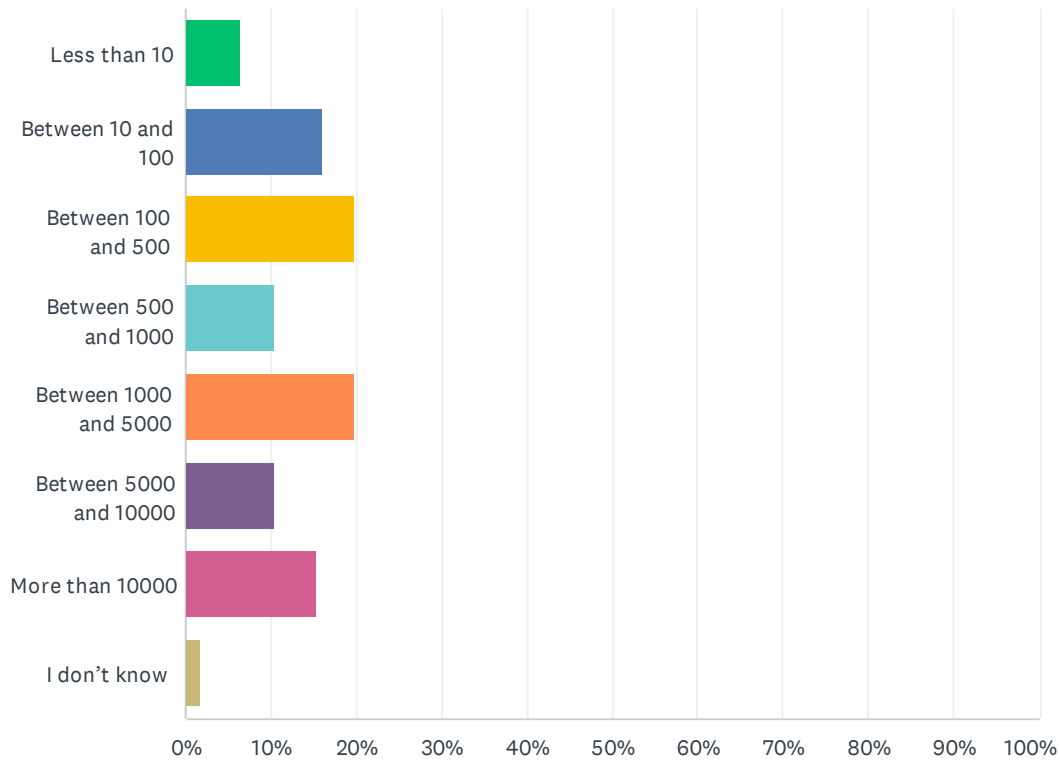


Q1 How many total employees does your company have?

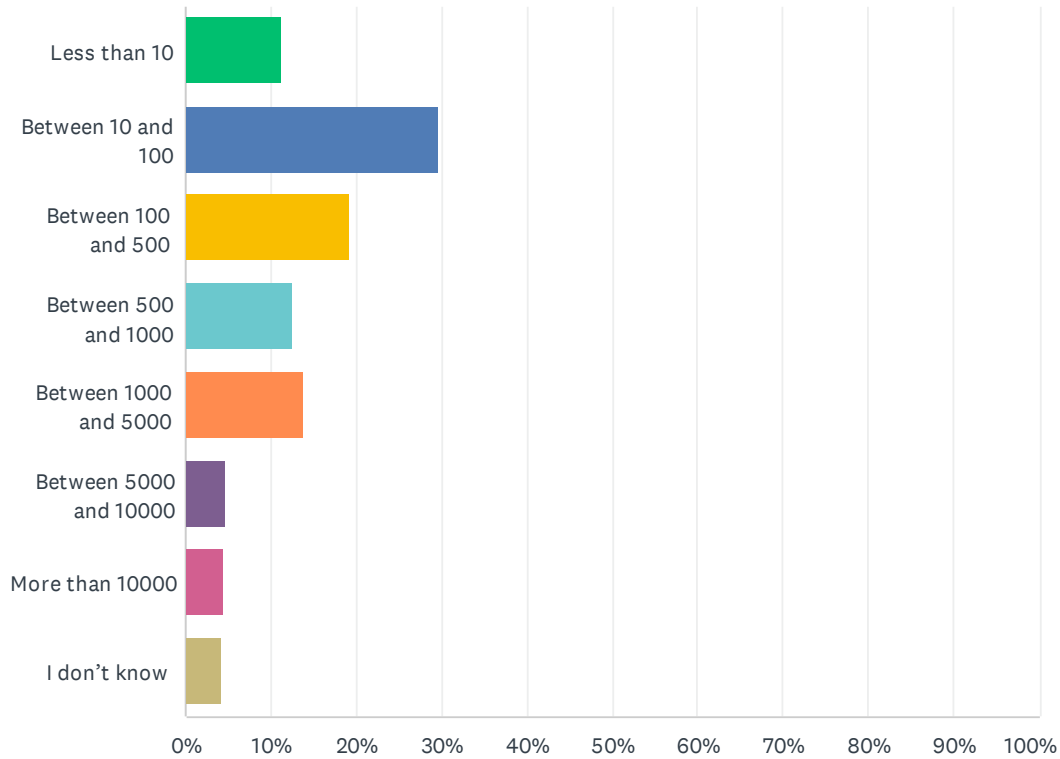
Answered: 516 Skipped: 3



ANSWER CHOICES	RESPONSES	
Less than 10	6.40%	33
Between 10 and 100	16.09%	83
Between 100 and 500	19.77%	102
Between 500 and 1000	10.47%	54
Between 1000 and 5000	19.77%	102
Between 5000 and 10000	10.47%	54
More than 10000	15.31%	79
I don't know	1.74%	9
TOTAL		516

Q2 How many engineers does your company have (total, including non-mobile engineers)?

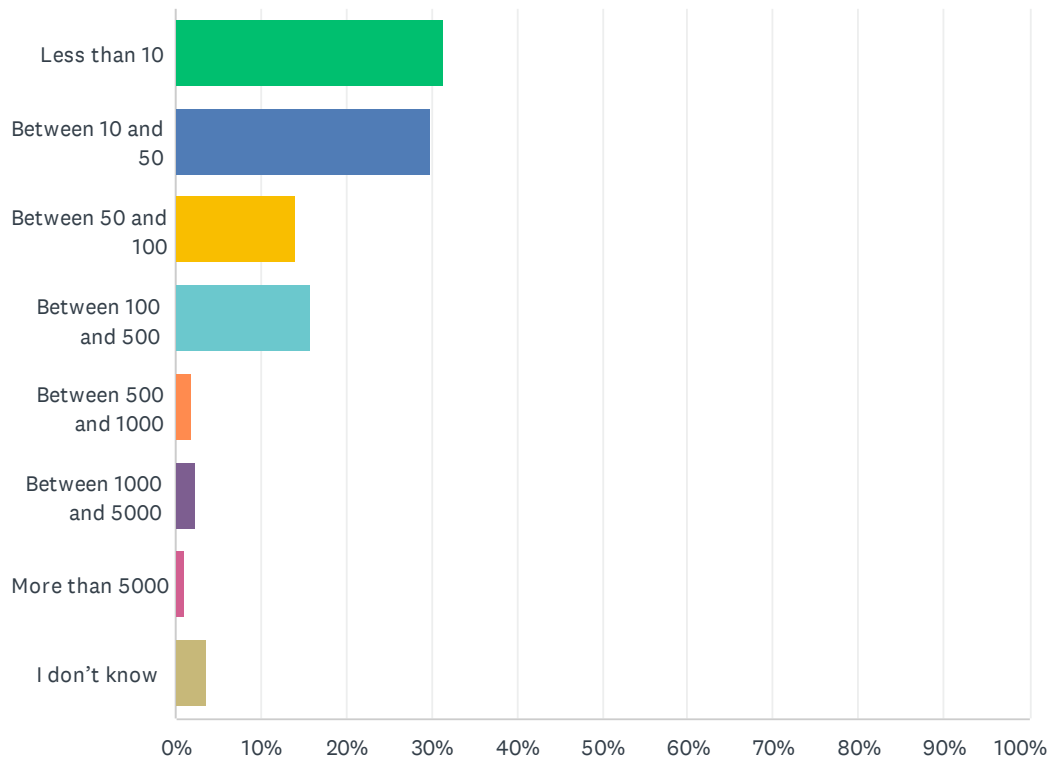
Answered: 514 Skipped: 5



ANSWER CHOICES	RESPONSES	
Less than 10	11.28%	58
Between 10 and 100	29.57%	152
Between 100 and 500	19.26%	99
Between 500 and 1000	12.65%	65
Between 1000 and 5000	13.81%	71
Between 5000 and 10000	4.67%	24
More than 10000	4.47%	23
I don't know	4.28%	22
TOTAL		514

Q3 How many mobile engineers does your company have?

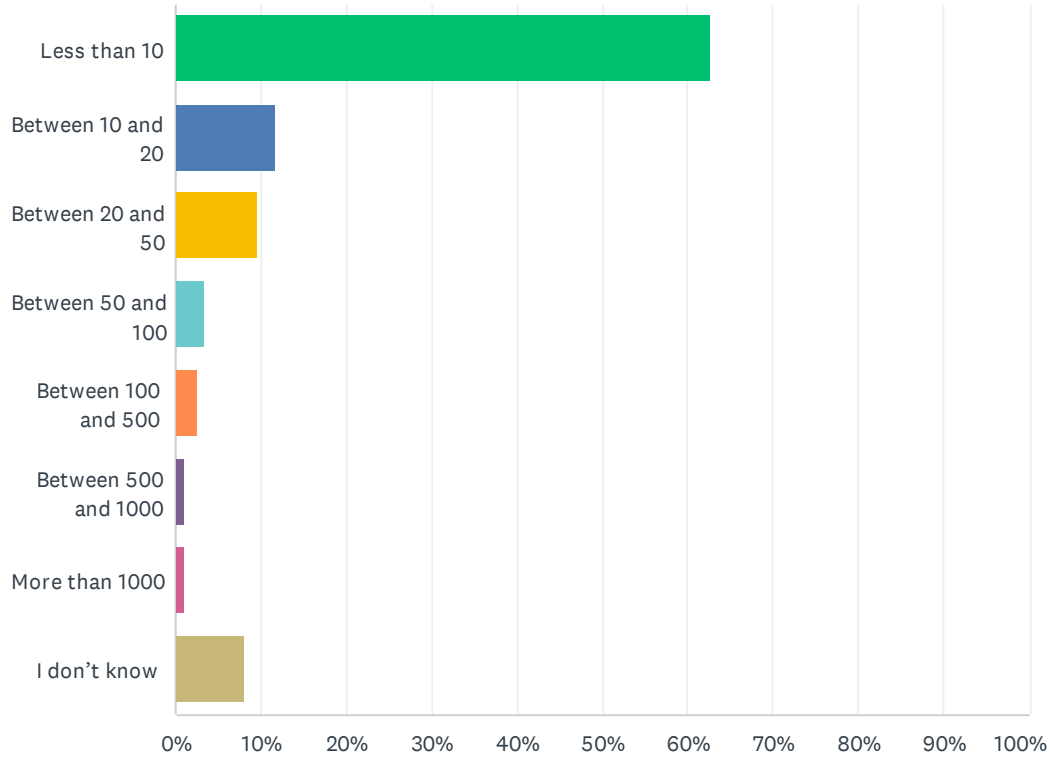
Answered: 515 Skipped: 4



ANSWER CHOICES	RESPONSES	
Less than 10	31.26%	161
Between 10 and 50	29.90%	154
Between 50 and 100	13.98%	72
Between 100 and 500	15.73%	81
Between 500 and 1000	1.94%	10
Between 1000 and 5000	2.33%	12
More than 5000	1.17%	6
I don't know	3.69%	19
TOTAL		515

Q4 How many platform/infrastructure mobile engineers does your company have?

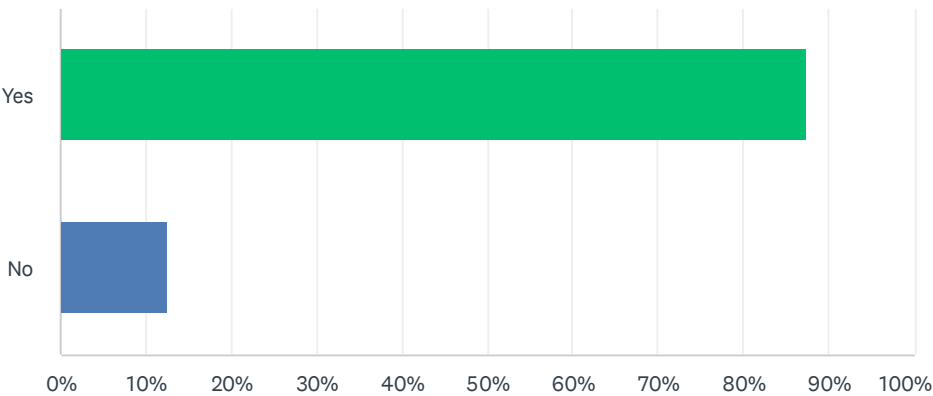
Answered: 516 Skipped: 3



ANSWER CHOICES	RESPONSES	
Less than 10	62.79%	324
Between 10 and 20	11.63%	60
Between 20 and 50	9.50%	49
Between 50 and 100	3.49%	18
Between 100 and 500	2.52%	13
Between 500 and 1000	0.97%	5
More than 1000	0.97%	5
I don't know	8.14%	42
TOTAL		516

Q5 Does your company provide office space to its employees?

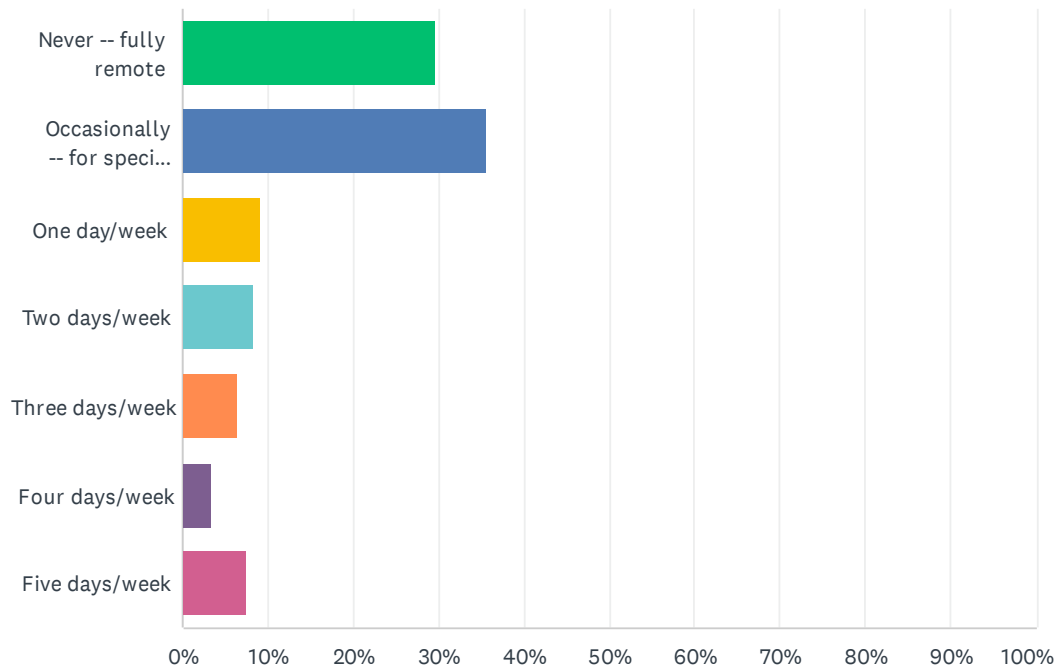
Answered: 515 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	87.38%	450
No	12.62%	65
TOTAL		515

Q6 How often do you go into an office?

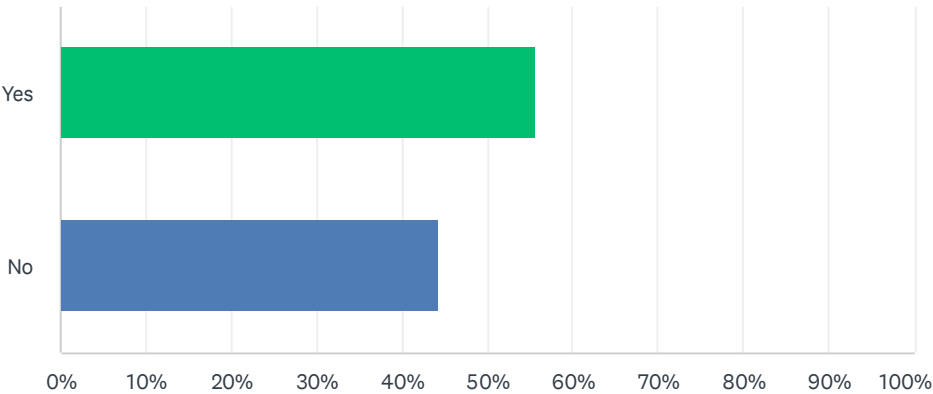
Answered: 516 Skipped: 3



ANSWER CHOICES	RESPONSES	
Never -- fully remote	29.65%	153
Occasionally -- for specific meetings, team activities. May include travel	35.66%	184
One day/week	9.11%	47
Two days/week	8.33%	43
Three days/week	6.40%	33
Four days/week	3.49%	18
Five days/week	7.36%	38
TOTAL		516

Q7 Does your company adjust pay based on location?

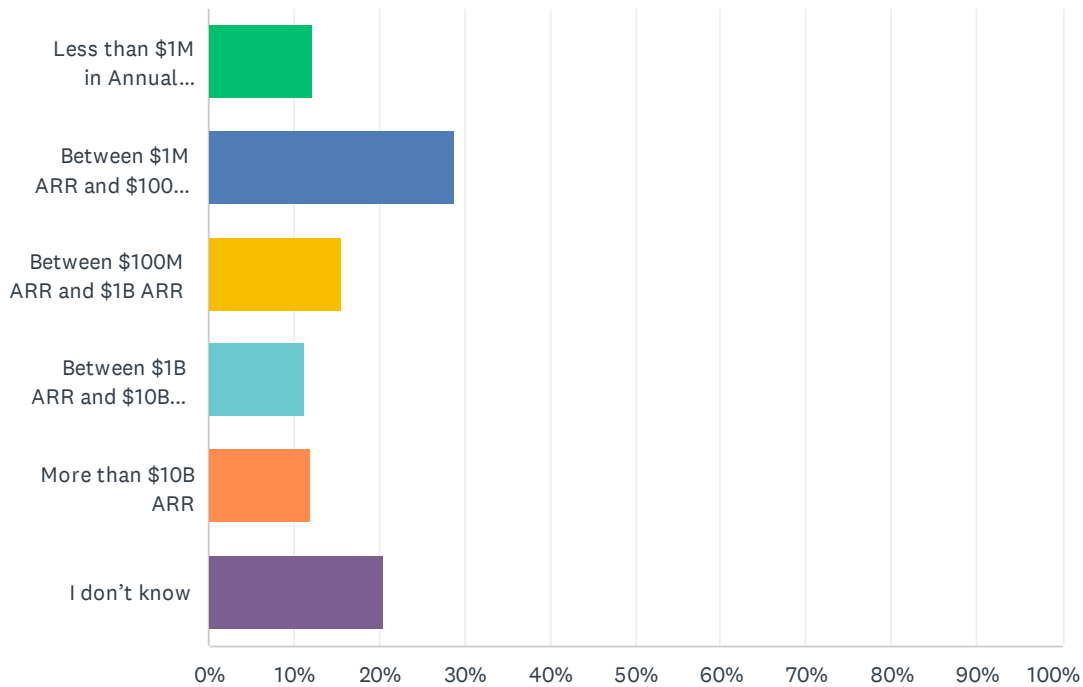
Answered: 515 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	55.73%	287
No	44.27%	228
TOTAL		515

Q8 How big is your company, from a revenue perspective?

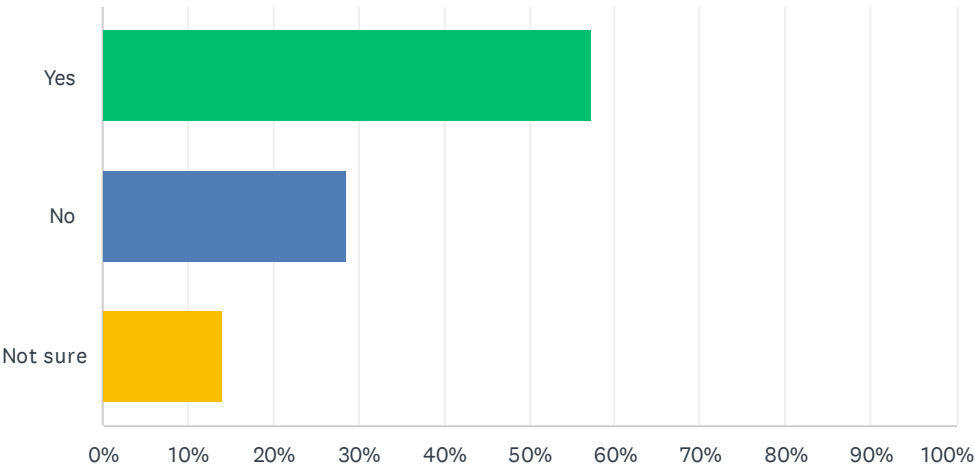
Answered: 515 Skipped: 4



ANSWER CHOICES	RESPONSES	
Less than \$1M in Annual Recurring Revenue (ARR)	12.23%	63
Between \$1M ARR and \$100M ARR	28.74%	148
Between \$100M ARR and \$1B ARR	15.53%	80
Between \$1B ARR and \$10B ARR	11.26%	58
More than \$10B ARR	11.84%	61
I don't know	20.39%	105
TOTAL		515

Q9 Do you consider your company to be engineering driven?

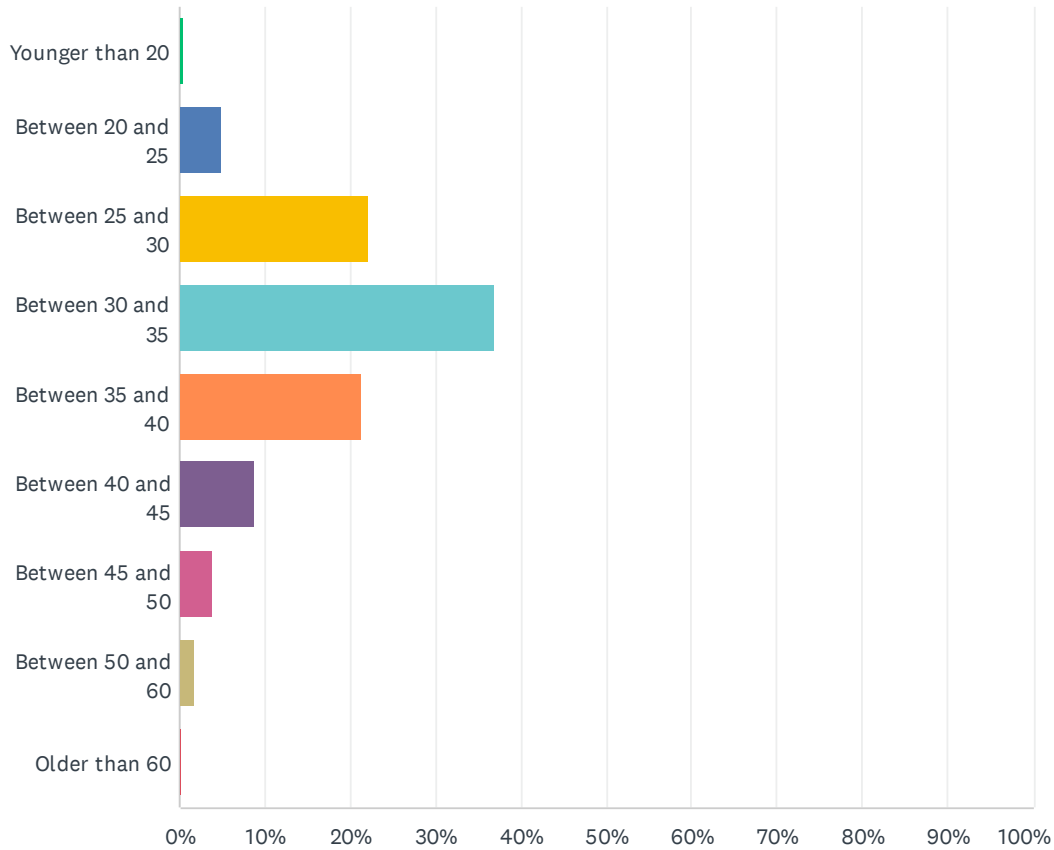
Answered: 515 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	57.28%	295
No	28.54%	147
Not sure	14.17%	73
TOTAL		515

Q10 How old are you?

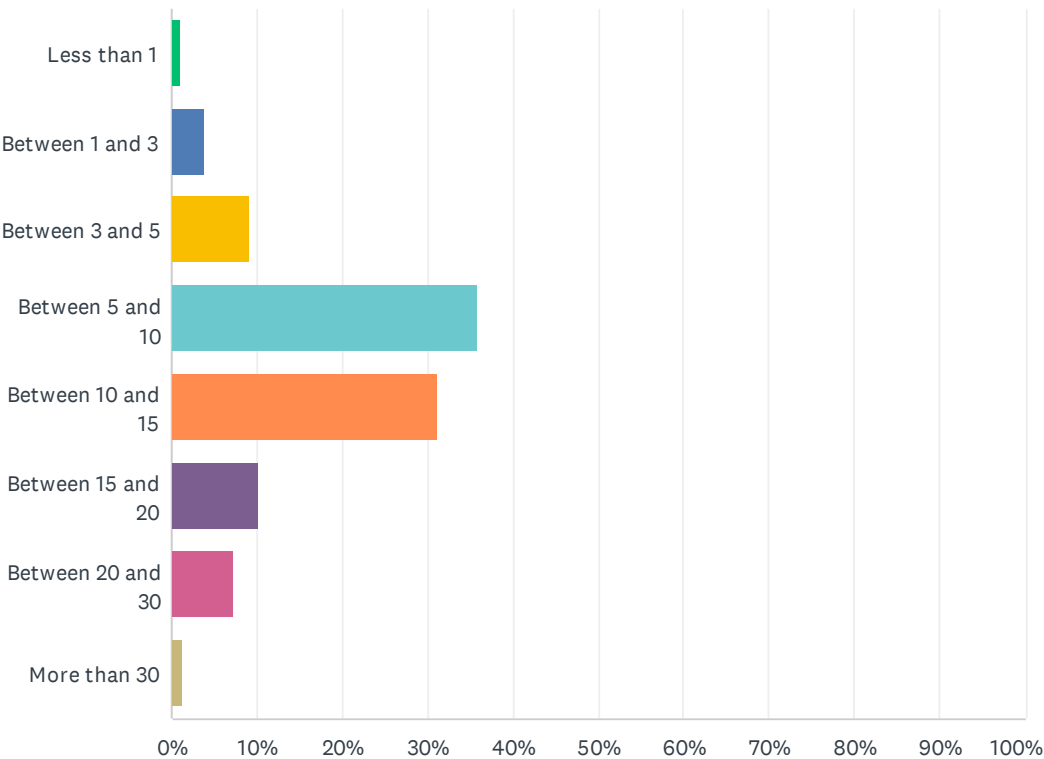
Answered: 516 Skipped: 3



ANSWER CHOICES	RESPONSES	
Younger than 20	0.39%	2
Between 20 and 25	4.84%	25
Between 25 and 30	22.09%	114
Between 30 and 35	36.82%	190
Between 35 and 40	21.32%	110
Between 40 and 45	8.72%	45
Between 45 and 50	3.88%	20
Between 50 and 60	1.74%	9
Older than 60	0.19%	1
TOTAL		516

Q11 How many years have you been a software engineer?

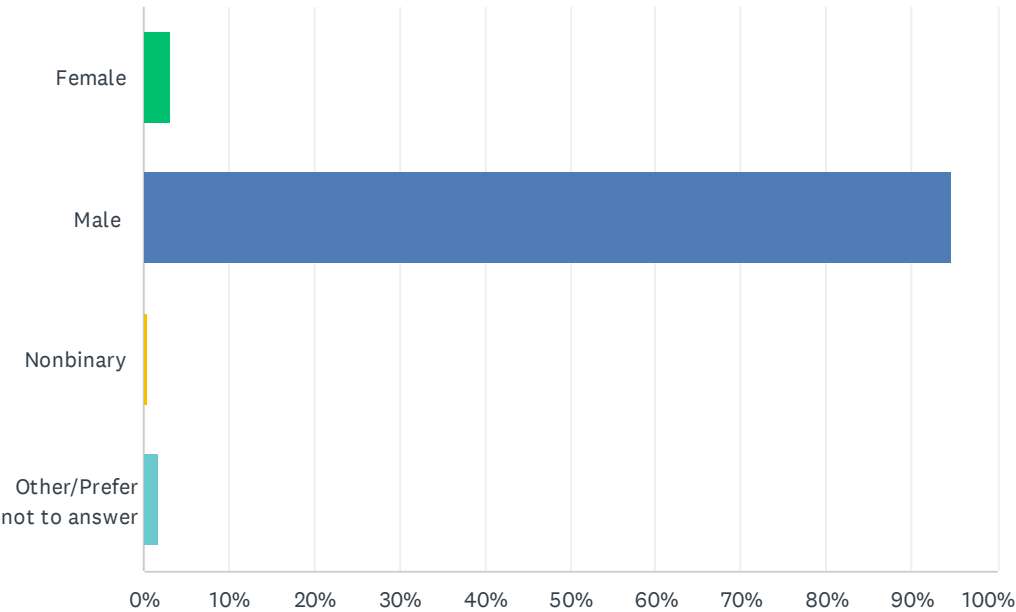
Answered: 516 Skipped: 3



ANSWER CHOICES	RESPONSES	
Less than 1	1.16%	6
Between 1 and 3	3.88%	20
Between 3 and 5	9.11%	47
Between 5 and 10	35.85%	185
Between 10 and 15	31.20%	161
Between 15 and 20	10.27%	53
Between 20 and 30	7.17%	37
More than 30	1.36%	7
TOTAL		516

Q12 What is your gender?

Answered: 516 Skipped: 3



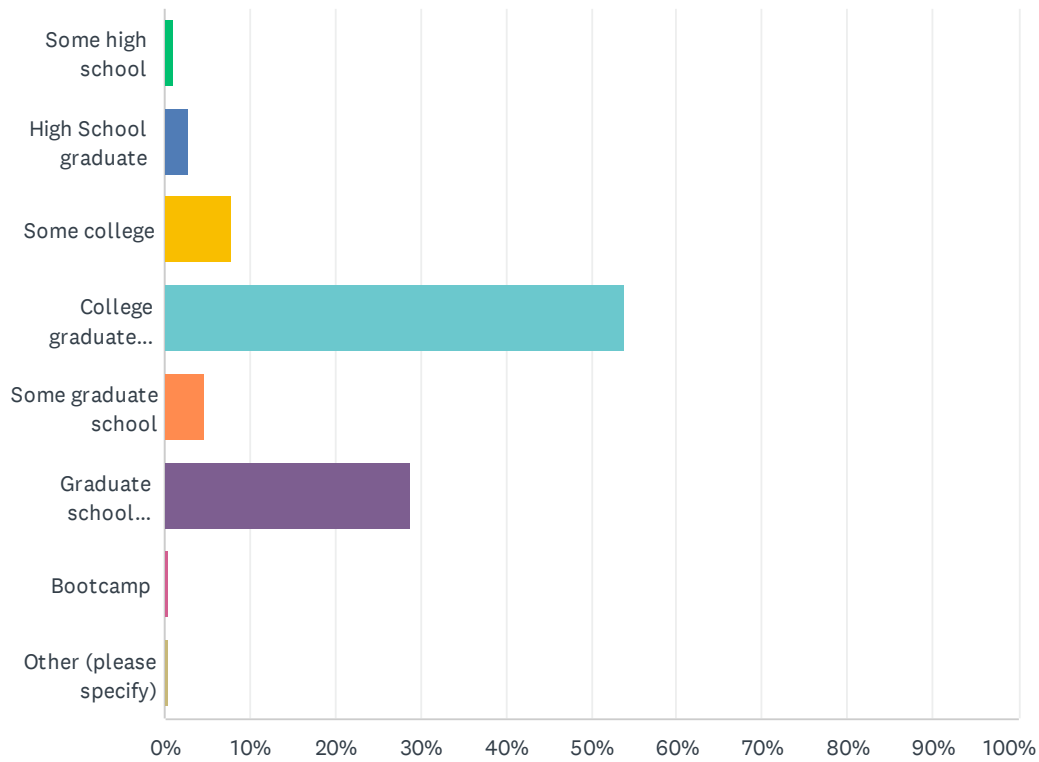
ANSWER CHOICES	RESPONSES	
Female	3.10%	16
Male	94.77%	489
Nonbinary	0.39%	2
Other/Prefer not to answer	1.74%	9
TOTAL		516

Q13 Where are you located? (IE Mountain View, California, USA)

Answered: 469 Skipped: 50

Q14 What is your highest level of education?

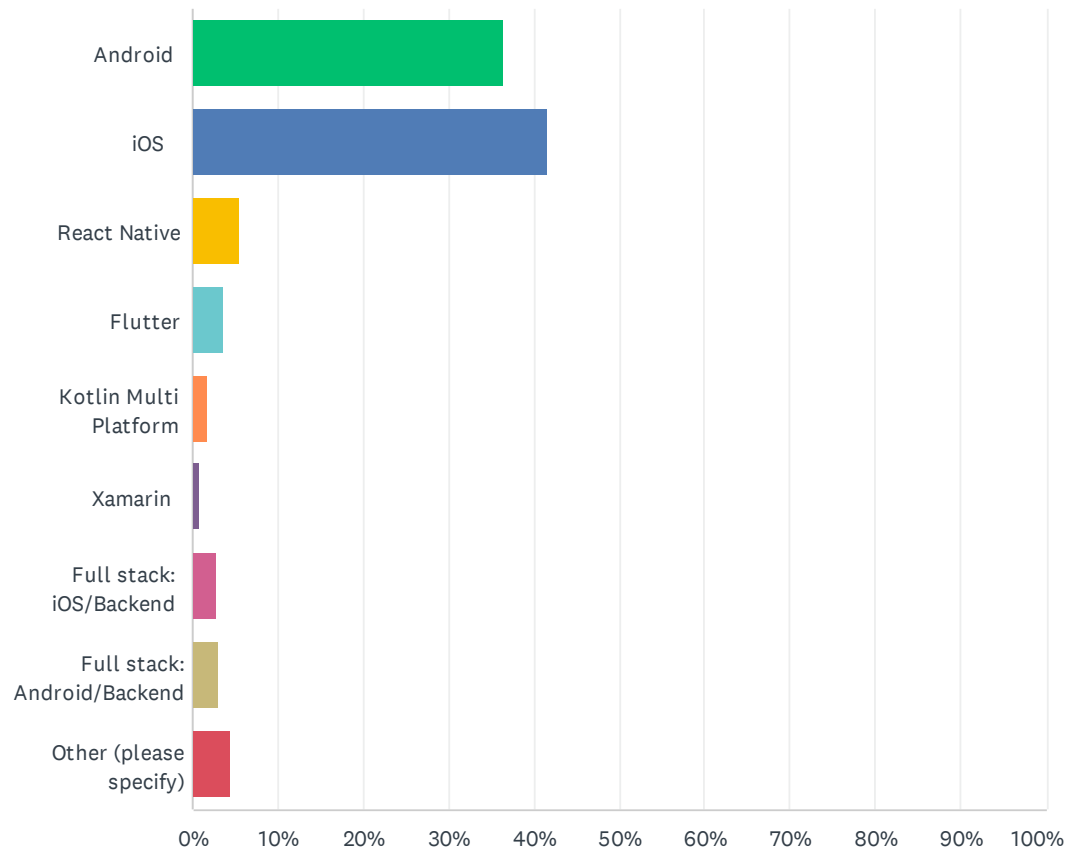
Answered: 515 Skipped: 4



ANSWER CHOICES	RESPONSES	
Some high school	1.17%	6
High School graduate	2.72%	14
Some college	7.96%	41
College graduate (Bachelor's or equivalent)	53.98%	278
Some graduate school	4.66%	24
Graduate school (Master's, PHD, or equivalent)	28.74%	148
Bootcamp	0.39%	2
Other (please specify)	0.39%	2
TOTAL		515

Q15 What platform do you primarily work on?

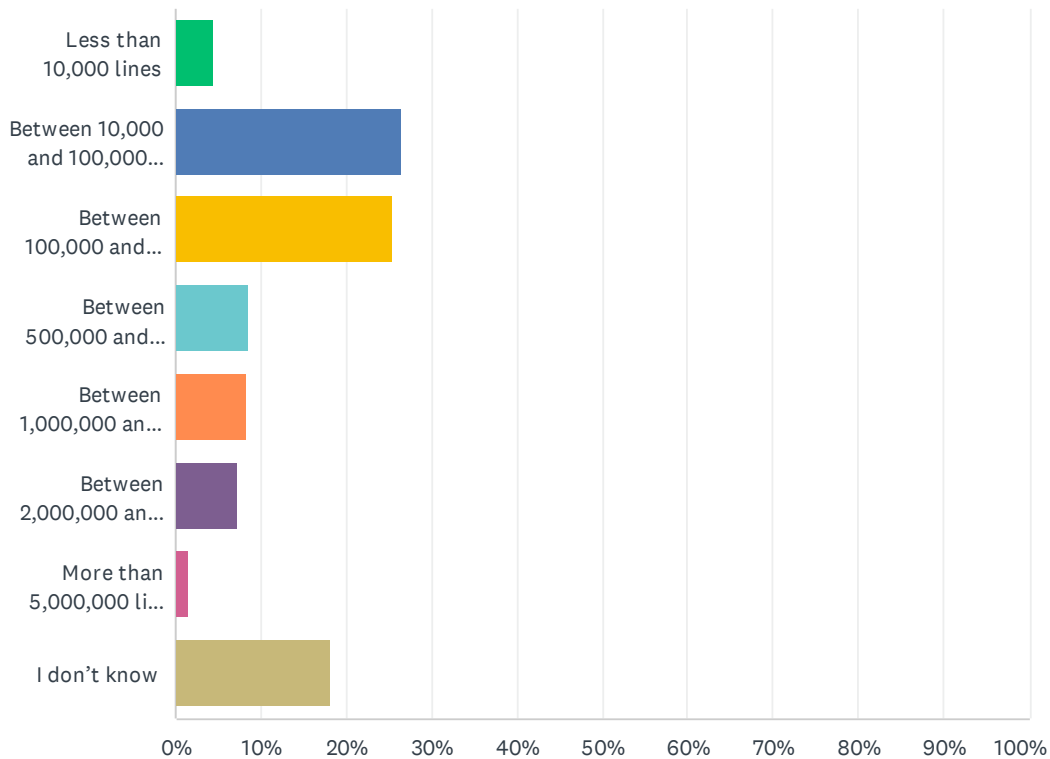
Answered: 516 Skipped: 3



ANSWER CHOICES	RESPONSES	
Android	36.43%	188
iOS	41.67%	215
React Native	5.62%	29
Flutter	3.68%	19
Kotlin Multi Platform	1.74%	9
Xamarin	0.78%	4
Full stack: iOS/Backend	2.71%	14
Full stack: Android/Backend	2.91%	15
Other (please specify)	4.46%	23
TOTAL		516

Q16 How many lines of code is the codebase you primarily work in?

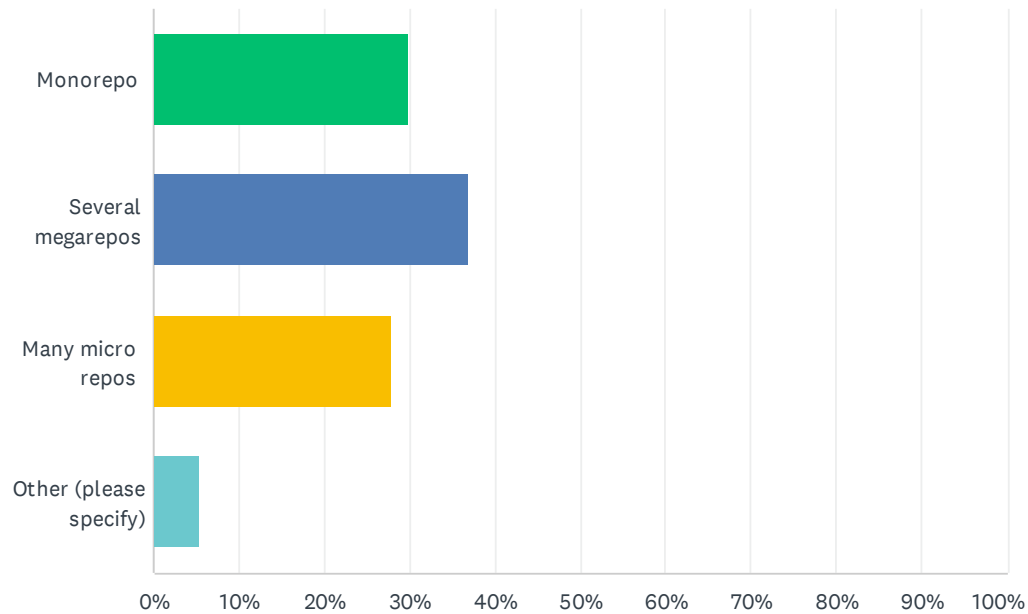
Answered: 424 Skipped: 95



ANSWER CHOICES	RESPONSES	
Less than 10,000 lines	4.48%	19
Between 10,000 and 100,000 lines	26.42%	112
Between 100,000 and 500,000 lines	25.47%	108
Between 500,000 and 1,000,000 lines	8.49%	36
Between 1,000,000 and 2,000,000 lines	8.25%	35
Between 2,000,000 and 5,000,000 lines	7.31%	31
More than 5,000,000 lines of code	1.42%	6
I don't know	18.16%	77
TOTAL		424

Q17 How does your company organize code?

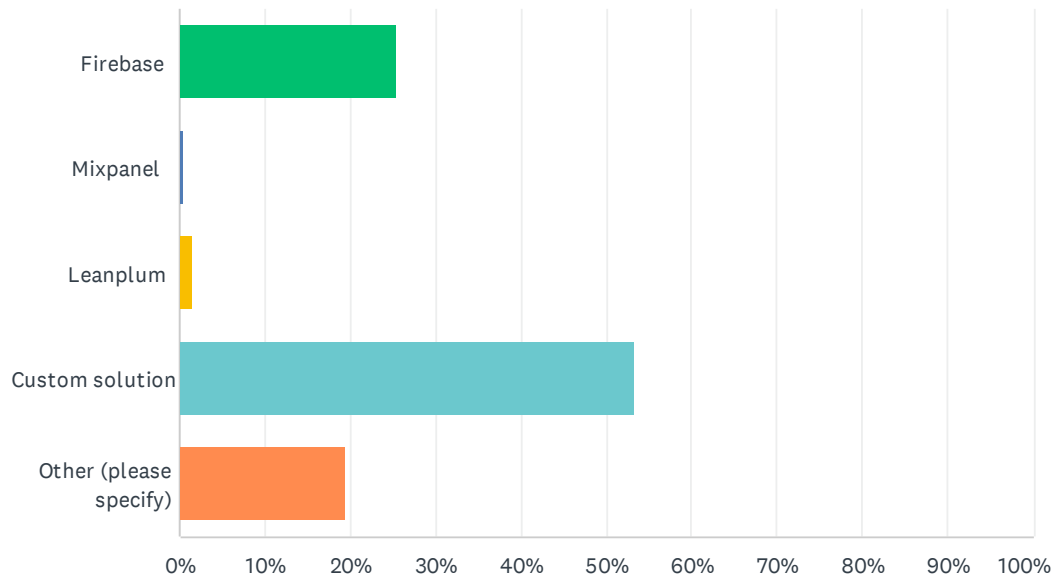
Answered: 430 Skipped: 89



ANSWER CHOICES	RESPONSES	
Monorepo	29.77%	128
Several megarepos	36.98%	159
Many micro repos	27.91%	120
Other (please specify)	5.35%	23
TOTAL		430

Q18 How do you handle A/B testing and/or feature flags?

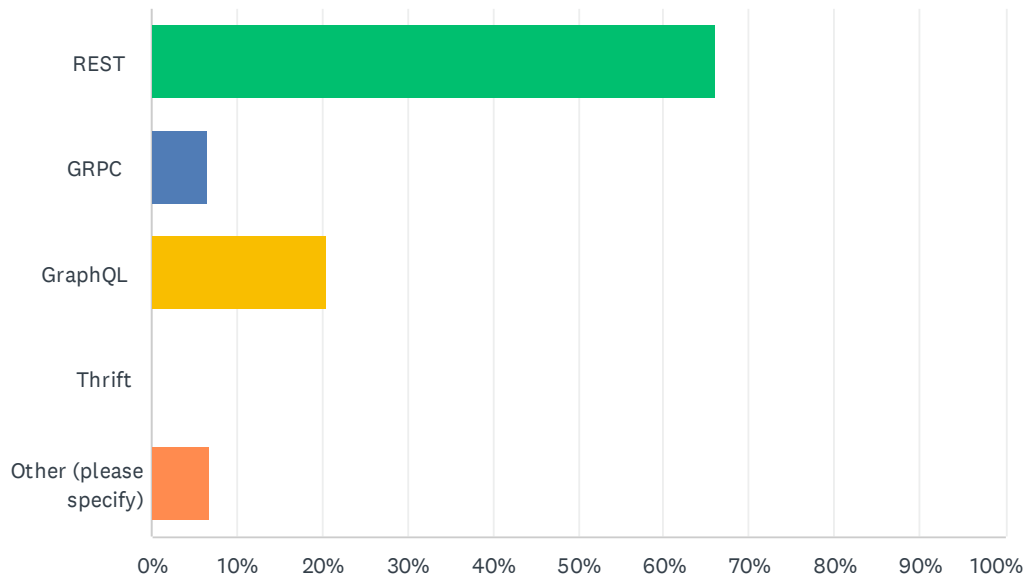
Answered: 421 Skipped: 98



ANSWER CHOICES	RESPONSES	
Firebase	25.42%	107
Mixpanel	0.48%	2
Leanplum	1.43%	6
Custom solution	53.21%	224
Other (please specify)	19.48%	82
TOTAL		421

Q19 How do you send data to your application from your servers?

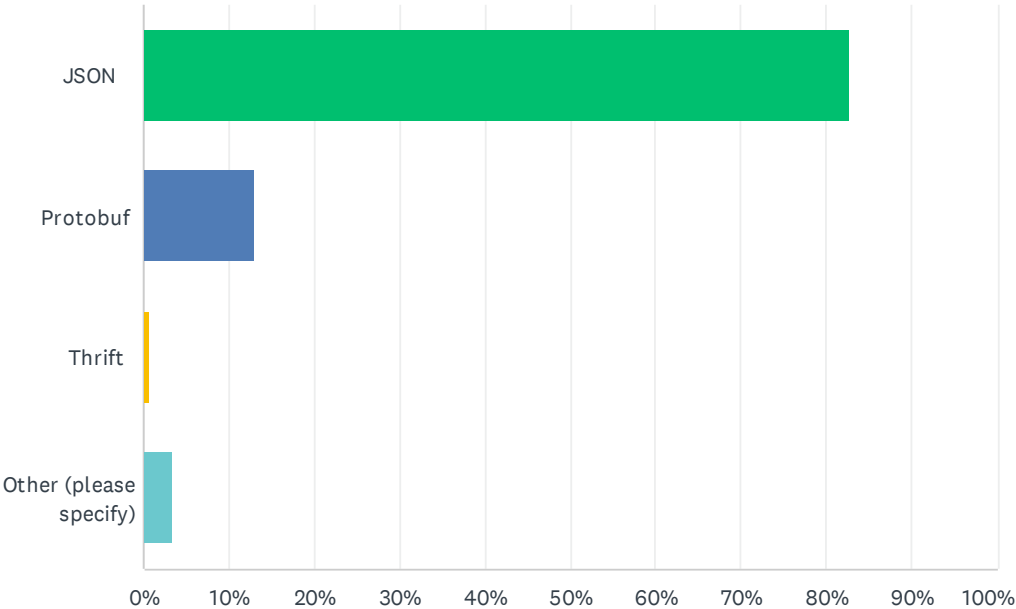
Answered: 426 Skipped: 93



ANSWER CHOICES	RESPONSES	
REST	66.20%	282
GRPC	6.57%	28
GraphQL	20.42%	87
Thrift	0.00%	0
Other (please specify)	6.81%	29
TOTAL		426

Q20 How is data formatted on the wire between your application and your servers?

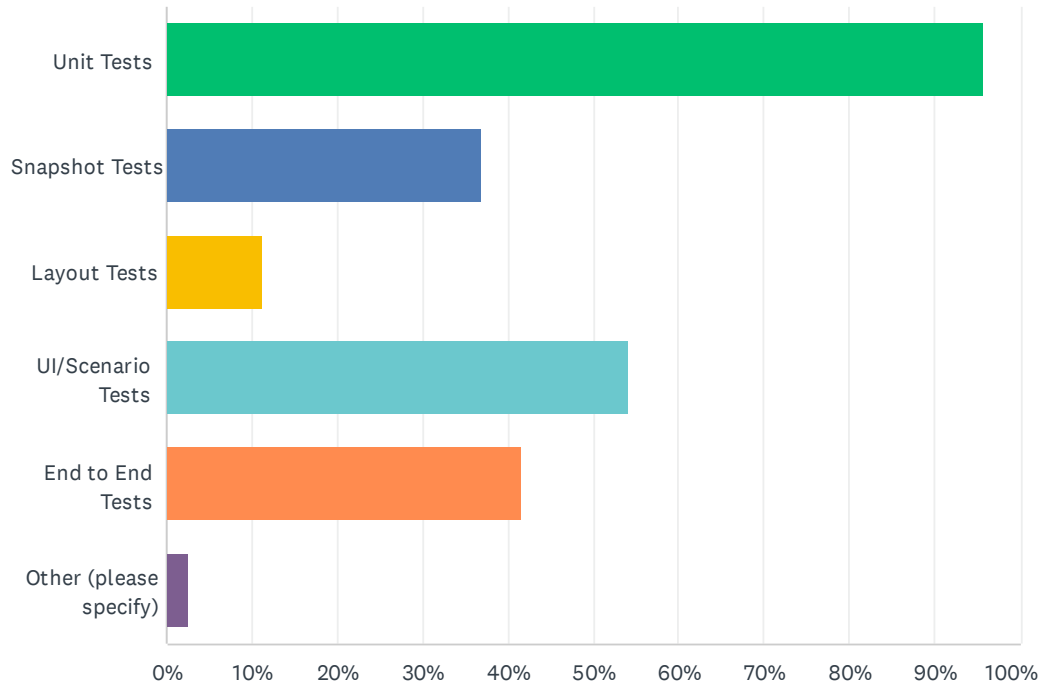
Answered: 428 Skipped: 91



ANSWER CHOICES	RESPONSES	
JSON	82.71%	354
Protobuf	13.08%	56
Thrift	0.70%	3
Other (please specify)	3.50%	15
TOTAL		428

Q21 How do you automate testing of your application?

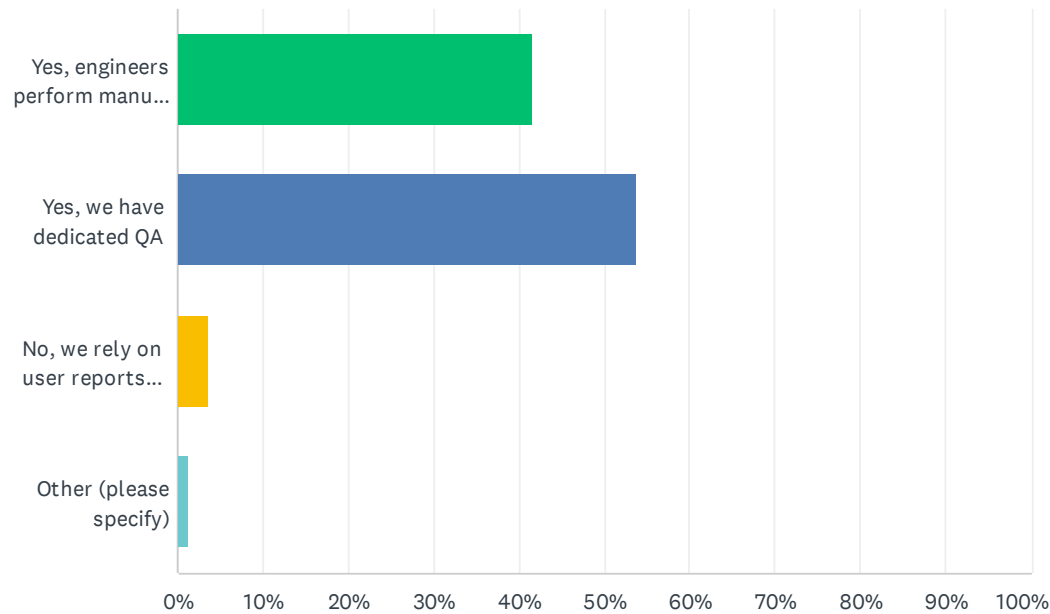
Answered: 421 Skipped: 98



ANSWER CHOICES	RESPONSES	
Unit Tests	95.72%	403
Snapshot Tests	36.82%	155
Layout Tests	11.40%	48
UI/Scenario Tests	54.16%	228
End to End Tests	41.57%	175
Other (please specify)	2.61%	11
Total Respondents: 421		

Q22 Do you perform manual testing?

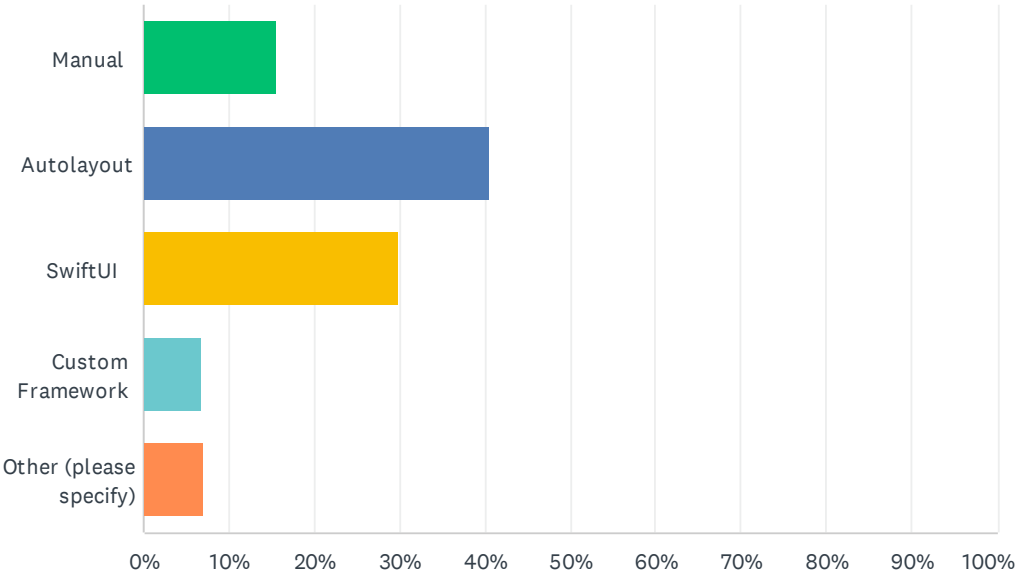
Answered: 426 Skipped: 93



ANSWER CHOICES	RESPONSES	
Yes, engineers perform manual testing on their work	41.55%	177
Yes, we have dedicated QA	53.76%	229
No, we rely on user reports for new issues	3.52%	15
Other (please specify)	1.17%	5
TOTAL		426

Q23 [iOS Only] How do you typically build UI layouts? If multiple, select the most common and/or recommended one

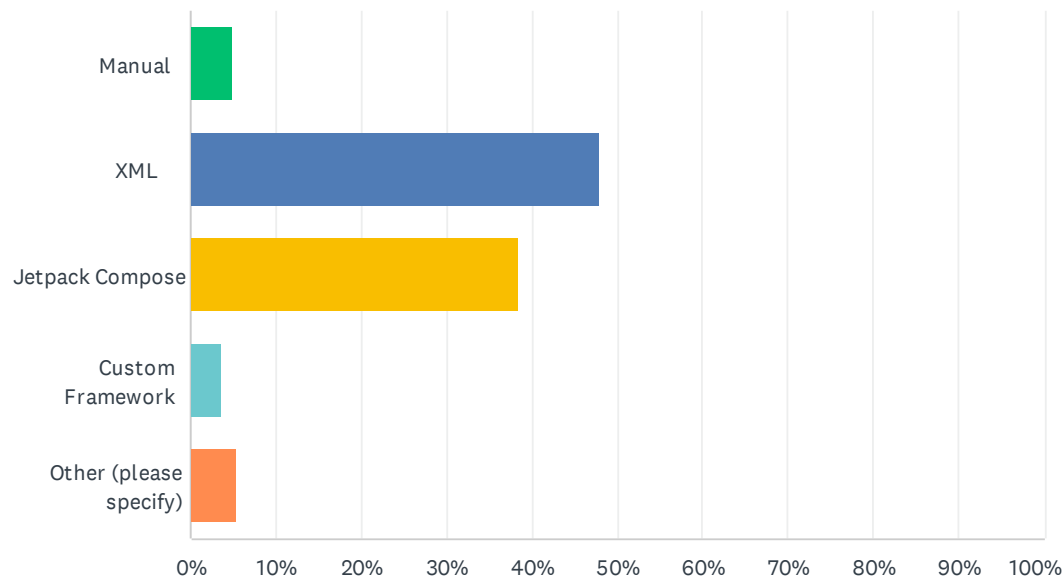
Answered: 281 Skipped: 238



ANSWER CHOICES	RESPONSES	
Manual	15.66%	44
Autolayout	40.57%	114
SwiftUI	29.89%	84
Custom Framework	6.76%	19
Other (please specify)	7.12%	20
TOTAL		281

Q24 [Android Only] How do you typically build UI layouts? If multiple, select the most common and/or recommended one

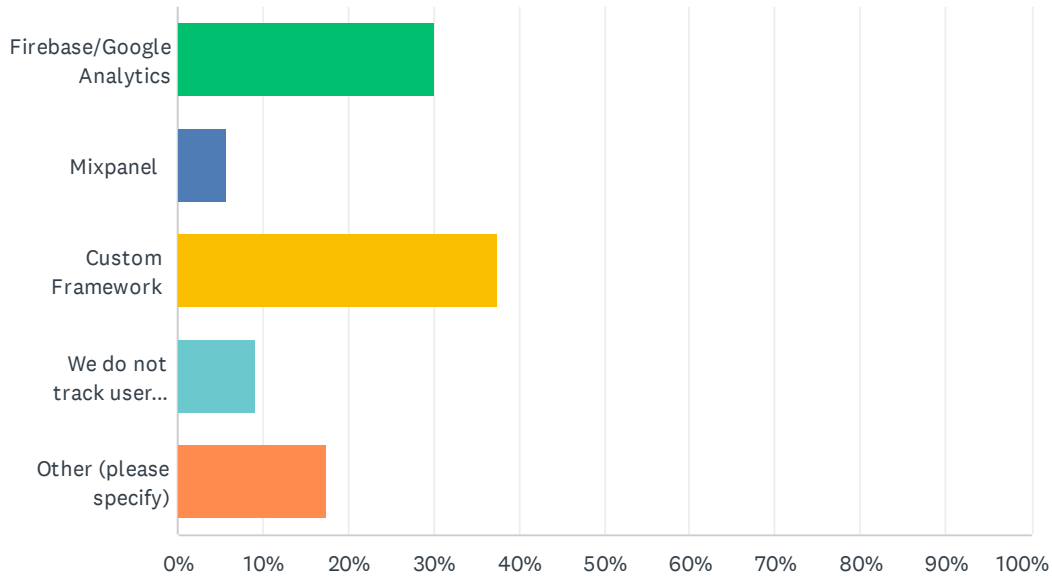
Answered: 282 Skipped: 237



ANSWER CHOICES	RESPONSES	
Manual	4.96%	14
XML	47.87%	135
Jetpack Compose	38.30%	108
Custom Framework	3.55%	10
Other (please specify)	5.32%	15
TOTAL		282

Q25 How do you track user actions in your application?

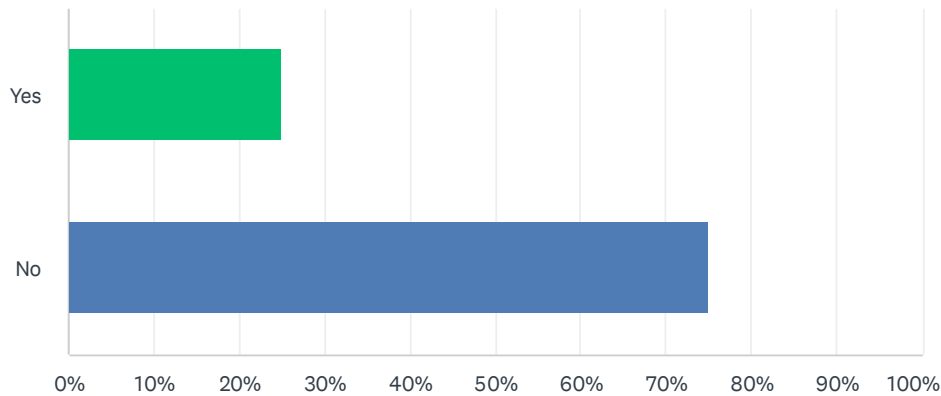
Answered: 427 Skipped: 92



ANSWER CHOICES	RESPONSES	
Firebase/Google Analytics	29.98%	128
Mixpanel	5.85%	25
Custom Framework	37.47%	160
We do not track user actions	9.13%	39
Other (please specify)	17.56%	75
TOTAL		427

Q26 Do you measure developer productivity?

Answered: 425 Skipped: 94



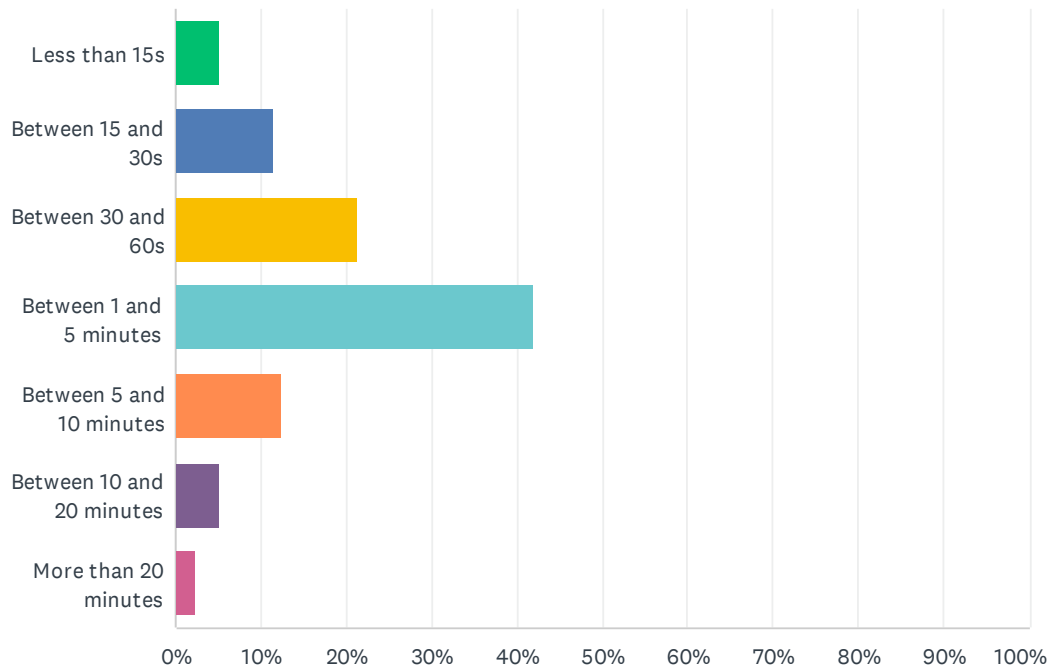
ANSWER CHOICES	RESPONSES	
Yes	24.94%	106
No	75.06%	319
TOTAL		425

Q27 If yes, what's the most important developer productivity metric you track?

Answered: 72 Skipped: 447

Q28 What are your average local build times?

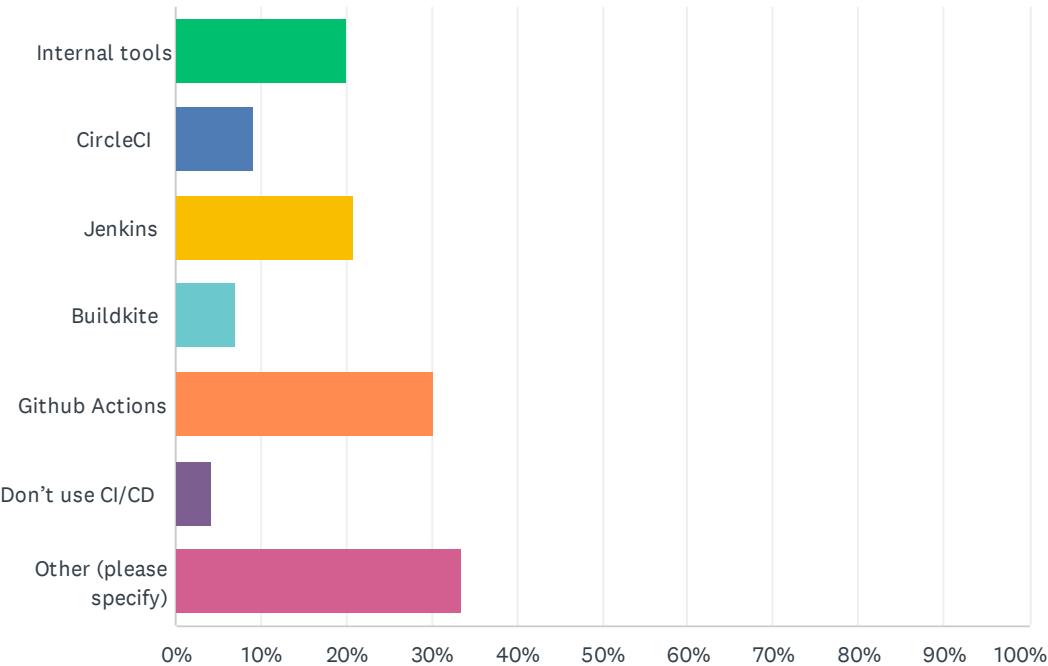
Answered: 426 Skipped: 93



ANSWER CHOICES	RESPONSES	
Less than 15s	5.16%	22
Between 15 and 30s	11.50%	49
Between 30 and 60s	21.36%	91
Between 1 and 5 minutes	42.02%	179
Between 5 and 10 minutes	12.44%	53
Between 10 and 20 minutes	5.16%	22
More than 20 minutes	2.35%	10
TOTAL		426

Q29 What do you use for CI/CD?

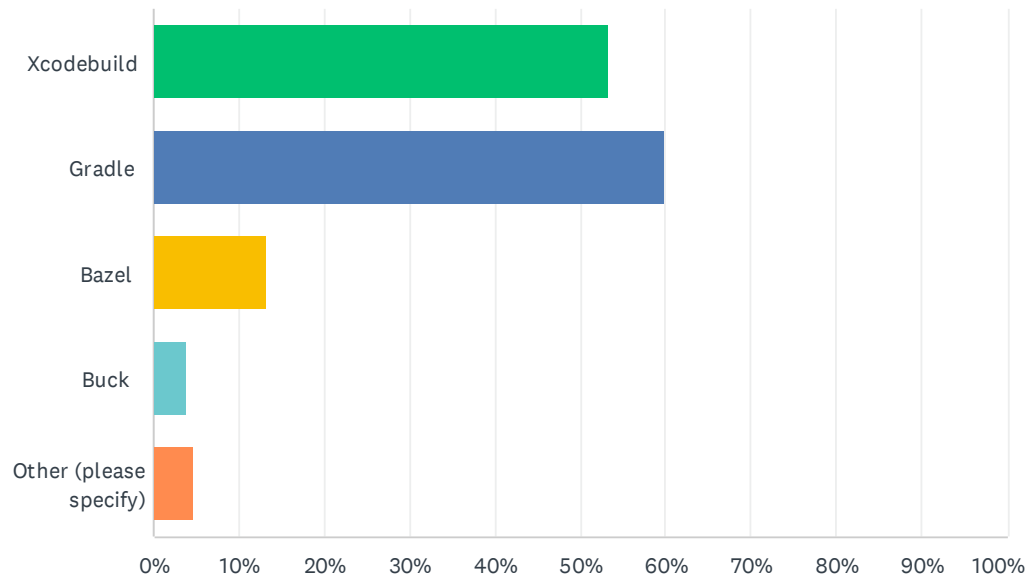
Answered: 404 Skipped: 115



ANSWER CHOICES	RESPONSES	
Internal tools	20.05%	81
CircleCI	9.16%	37
Jenkins	20.79%	84
Buildkite	6.93%	28
Github Actions	30.20%	122
Don't use CI/CD	4.21%	17
Other (please specify)	33.42%	135
Total Respondents: 404		

Q30 What build system do you use?

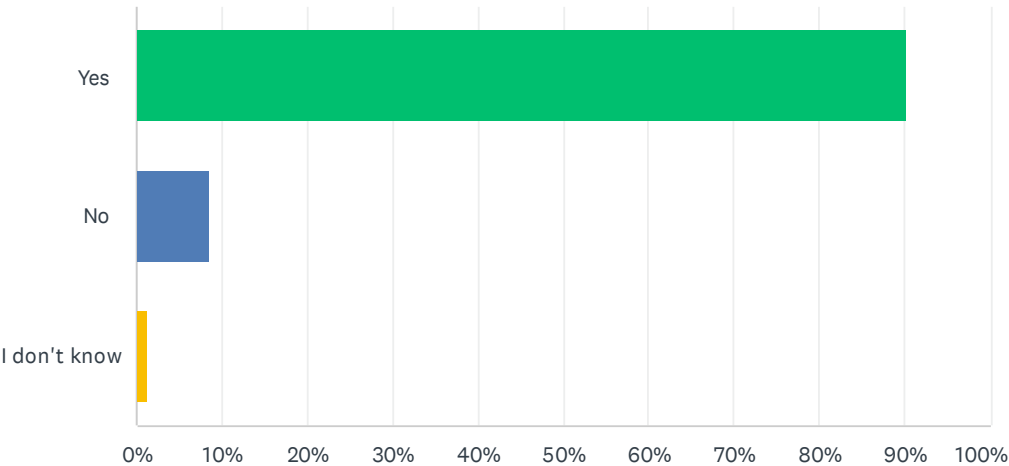
Answered: 399 Skipped: 120



ANSWER CHOICES	RESPONSES	
Xcodebuild	53.38%	213
Gradle	59.90%	239
Bazel	13.28%	53
Buck	3.76%	15
Other (please specify)	4.76%	19
Total Respondents: 399		

Q31 Is your code run through a linter, or checkstyle?

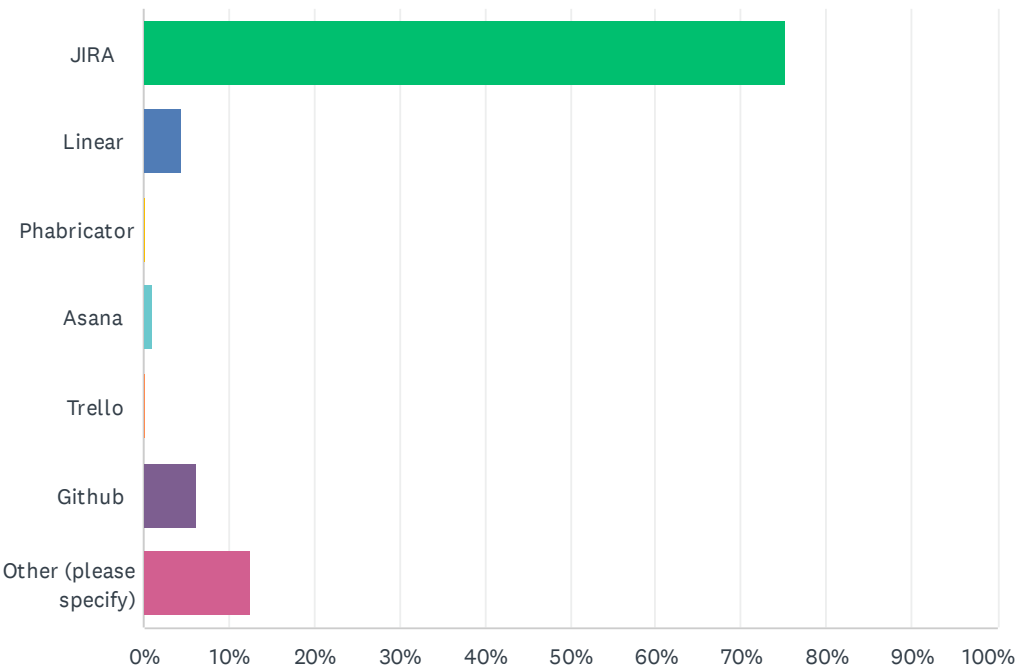
Answered: 406 Skipped: 113



ANSWER CHOICES	RESPONSES	
Yes	90.15%	366
No	8.62%	35
I don't know	1.23%	5
TOTAL		406

Q32 How does your company track issues and tasks?

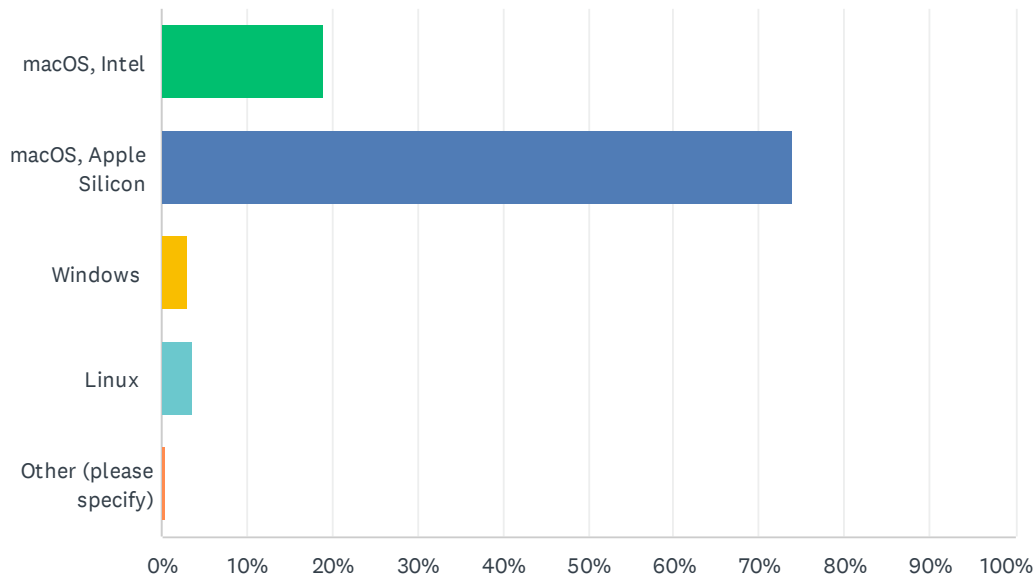
Answered: 405 Skipped: 114



ANSWER CHOICES	RESPONSES	
JIRA	75.31%	305
Linear	4.44%	18
Phabricator	0.25%	1
Asana	0.99%	4
Trello	0.25%	1
Github	6.17%	25
Other (please specify)	12.59%	51
TOTAL		405

Q33 What kind of machine do you primarily use for development?

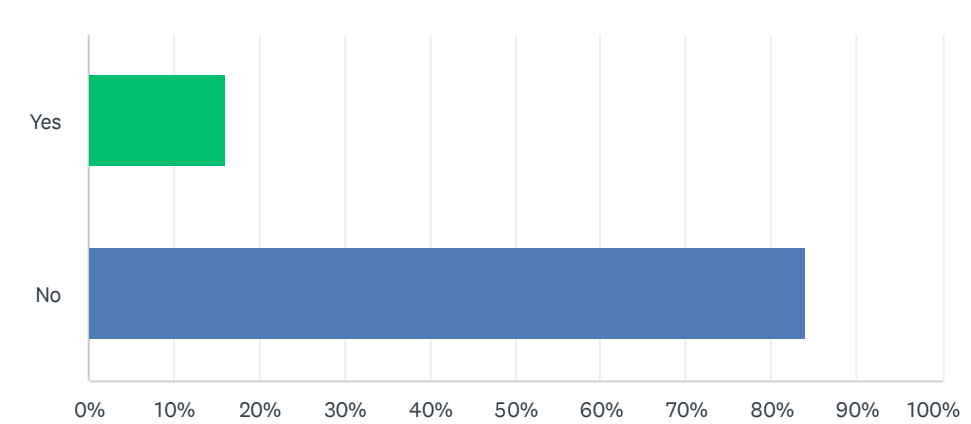
Answered: 406 Skipped: 113



ANSWER CHOICES	RESPONSES	
macOS, Intel	18.97%	77
macOS, Apple Silicon	73.89%	300
Windows	2.96%	12
Linux	3.69%	15
Other (please specify)	0.49%	2
TOTAL		406

Q34 Do you work on more than one machine at the same time?

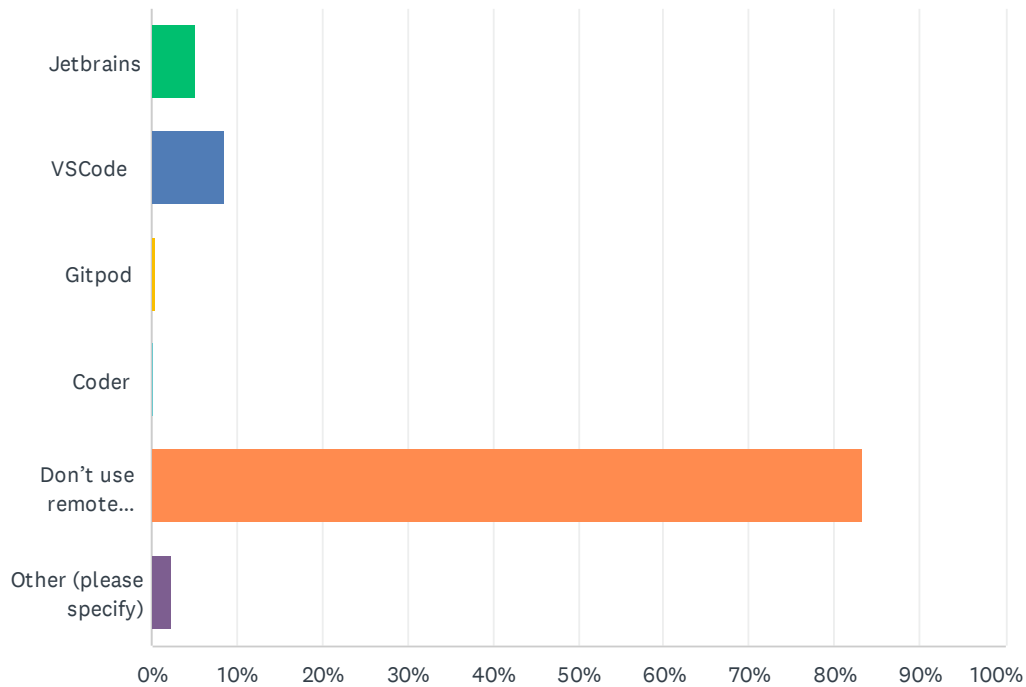
Answered: 406 Skipped: 113



ANSWER CHOICES	RESPONSES	
Yes	16.01%	65
No	83.99%	341
TOTAL		406

Q35 What (if any) remote development solutions do you use?

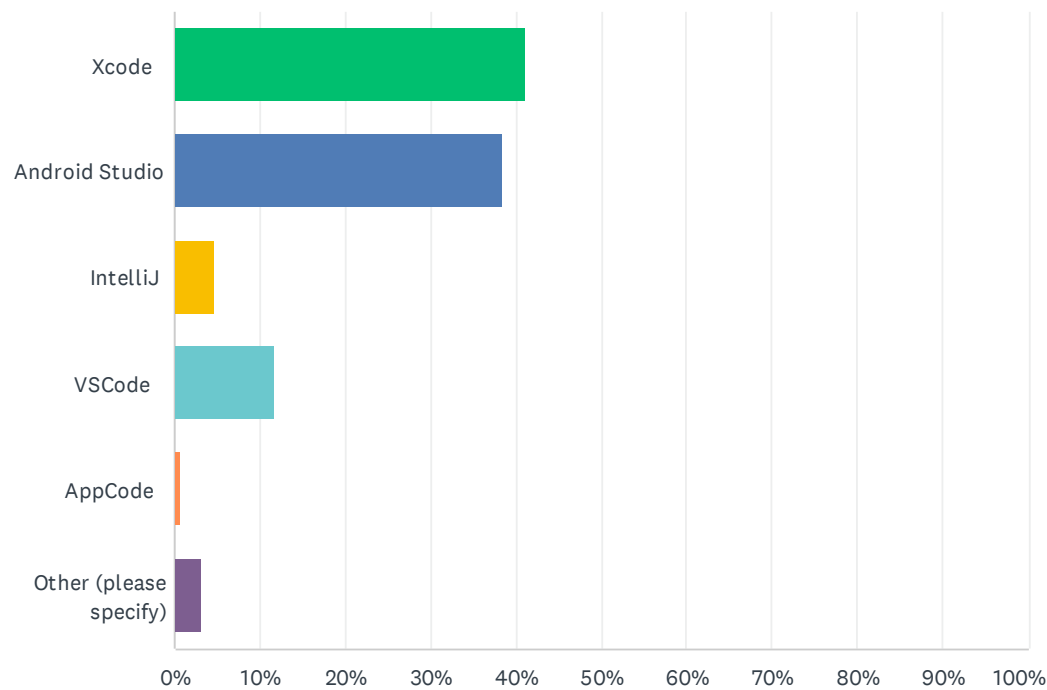
Answered: 377 Skipped: 142



ANSWER CHOICES	RESPONSES	
Jetbrains	5.04%	19
VSCode	8.49%	32
Gitpod	0.53%	2
Coder	0.27%	1
Don't use remote development	83.29%	314
Other (please specify)	2.39%	9
TOTAL		377

Q36 What is your primary IDE?

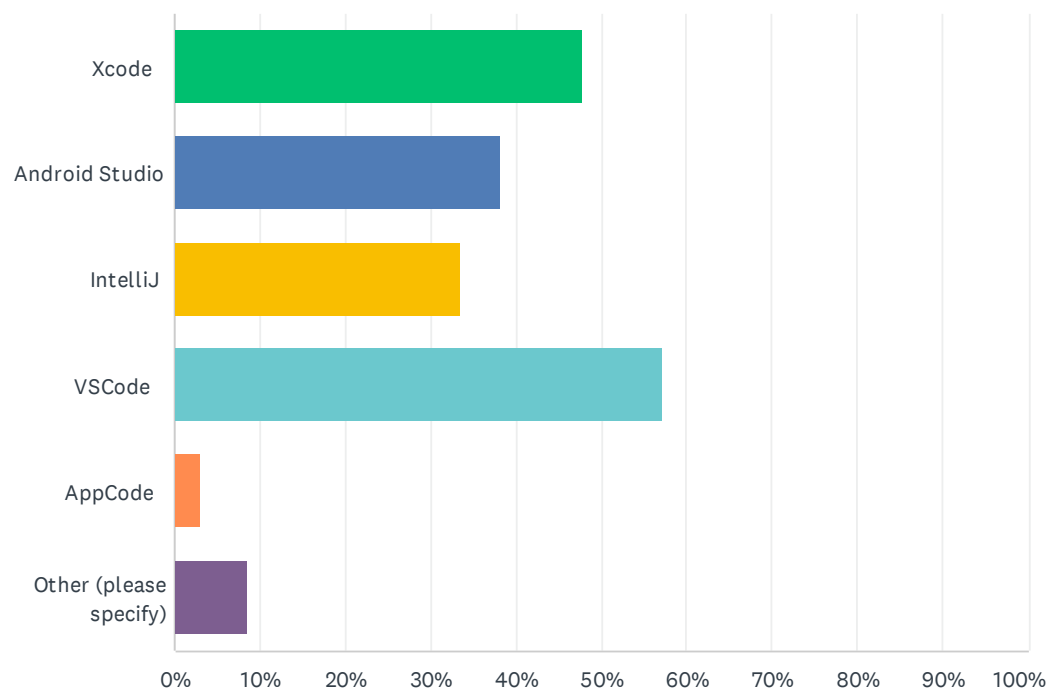
Answered: 406 Skipped: 113



ANSWER CHOICES	RESPONSES	
Xcode	41.13%	167
Android Studio	38.42%	156
IntelliJ	4.68%	19
VSCode	11.82%	48
AppCode	0.74%	3
Other (please specify)	3.20%	13
TOTAL		406

Q37 What other IDEs do you use (choose your top 3)?

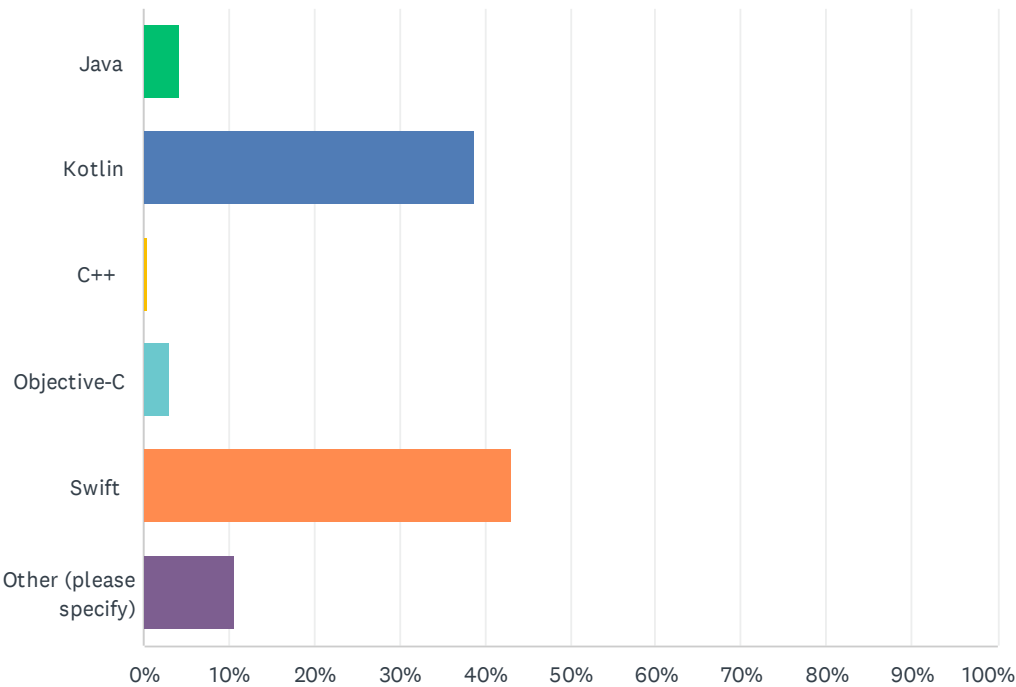
Answered: 364 Skipped: 155



ANSWER CHOICES	RESPONSES	
Xcode	47.80%	174
Android Studio	38.19%	139
IntelliJ	33.52%	122
VSCode	57.14%	208
AppCode	3.02%	11
Other (please specify)	8.52%	31
Total Respondents: 364		

Q38 What is your primary programming language?

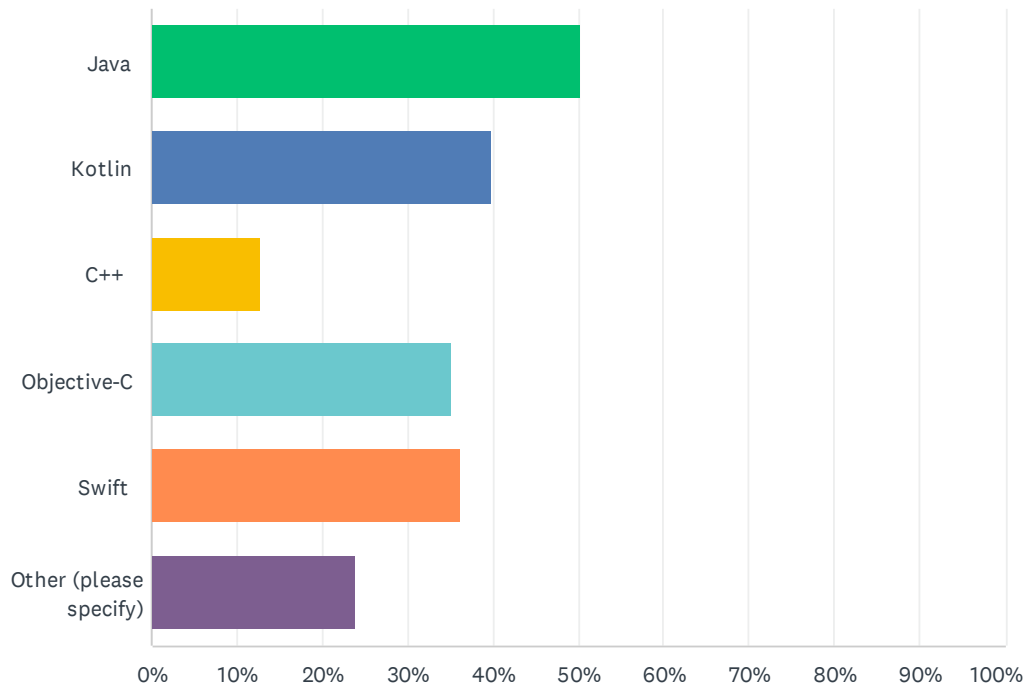
Answered: 407 Skipped: 112



ANSWER CHOICES	RESPONSES	
Java	4.18%	17
Kotlin	38.82%	158
C++	0.49%	2
Objective-C	2.95%	12
Swift	43.00%	175
Other (please specify)	10.57%	43
TOTAL		407

Q39 What other programming languages do you use (multi select)?

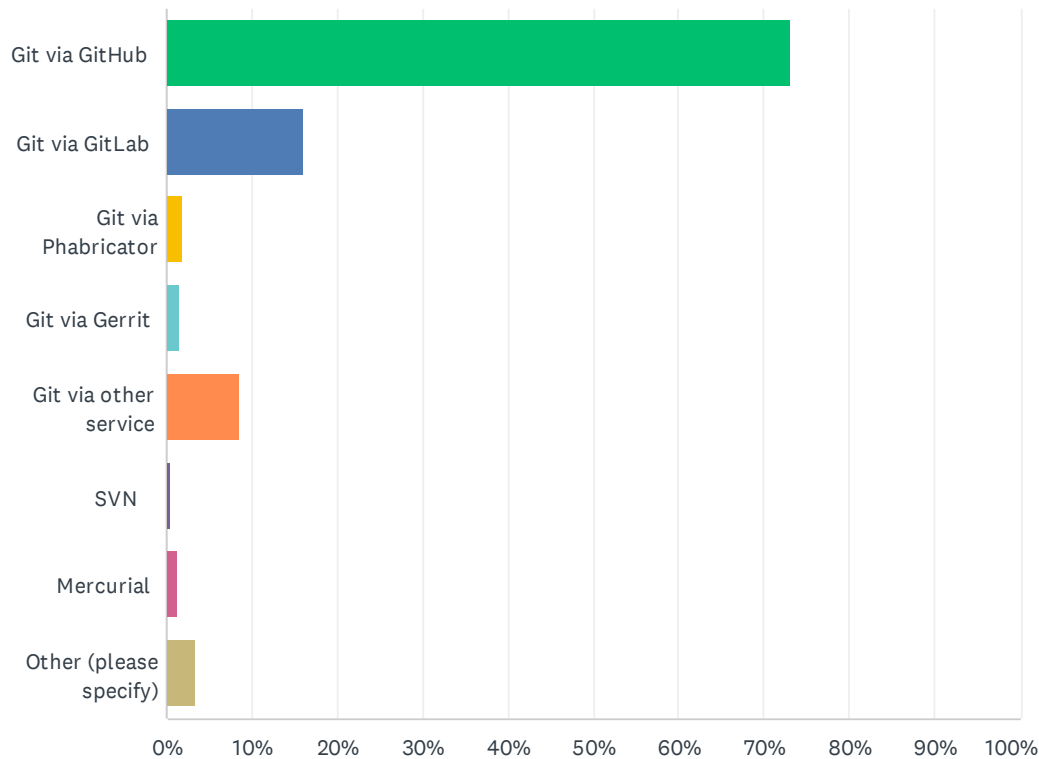
Answered: 353 Skipped: 166



ANSWER CHOICES	RESPONSES	
Java	50.42%	178
Kotlin	39.94%	141
C++	12.75%	45
Objective-C	35.13%	124
Swift	36.26%	128
Other (please specify)	23.80%	84
Total Respondents: 353		

Q40 What do you use for version control?

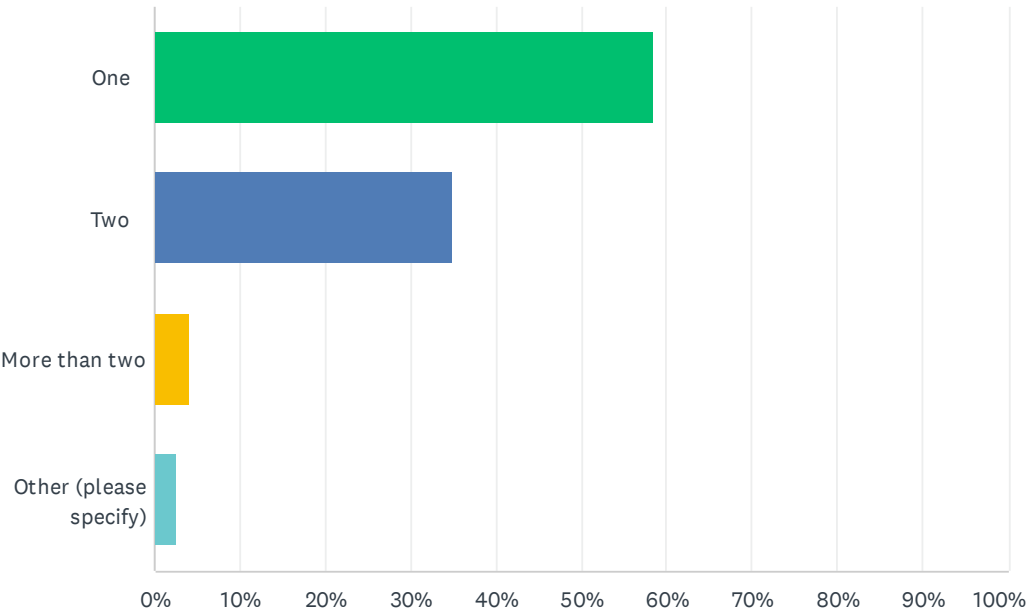
Answered: 406 Skipped: 113



ANSWER CHOICES	RESPONSES	
Git via GitHub	73.15%	297
Git via GitLab	16.01%	65
Git via Phabricator	1.97%	8
Git via Gerrit	1.48%	6
Git via other service	8.62%	35
SVN	0.49%	2
Mercurial	1.23%	5
Other (please specify)	3.45%	14
Total Respondents: 406		

Q41 How many reviewers do you need for a typical code submission?

Answered: 402 Skipped: 117



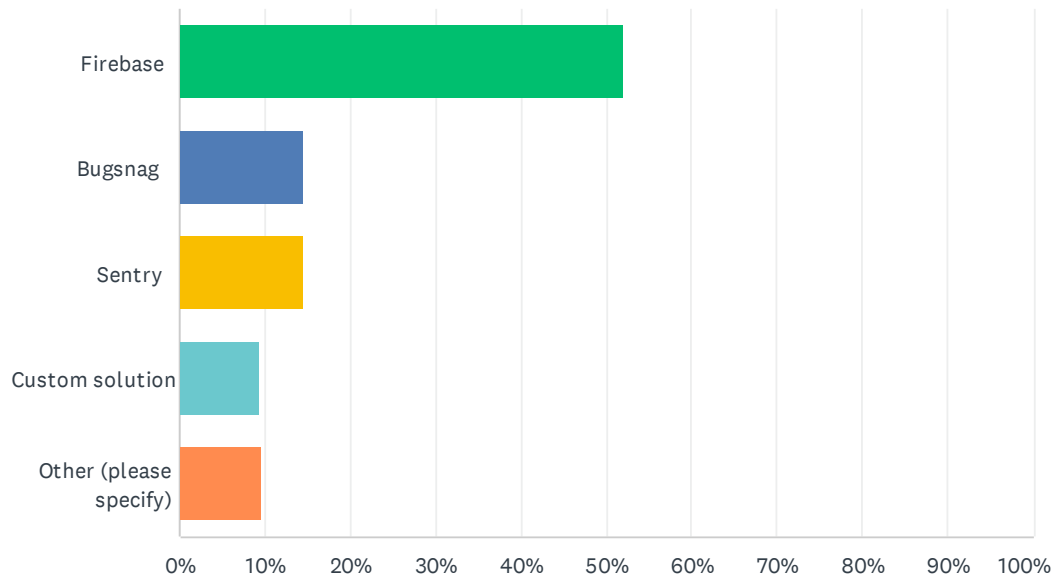
ANSWER CHOICES	RESPONSES	
One	58.46%	235
Two	35.07%	141
More than two	3.98%	16
Other (please specify)	2.49%	10
TOTAL		402

Q42 How is code ownership set up at your company?

Answered: 172 Skipped: 347

Q43 What type of crash reporting system do you use?

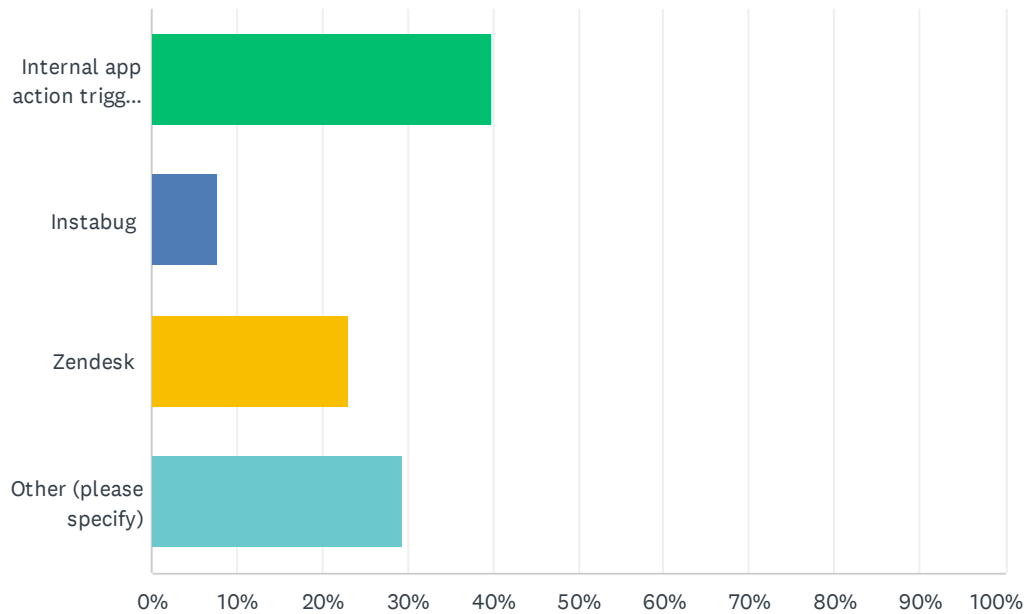
Answered: 394 Skipped: 125



ANSWER CHOICES	RESPONSES	
Firebase	52.03%	205
Bugsnag	14.47%	57
Sentry	14.47%	57
Custom solution	9.39%	37
Other (please specify)	9.64%	38
TOTAL		394

Q44 How do you receive user feedback?

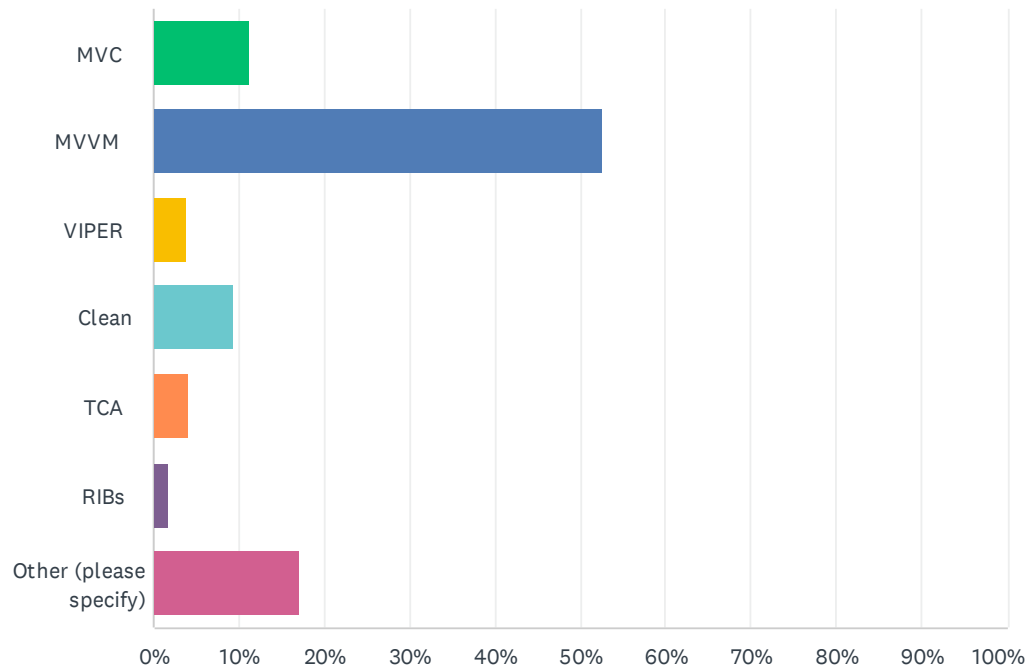
Answered: 326 Skipped: 193



ANSWER CHOICES	RESPONSES	
Internal app action trigger (ie "Shake to Send", screenshot)	39.88%	130
Instabug	7.67%	25
Zendesk	23.01%	75
Other (please specify)	29.45%	96
TOTAL		326

Q45 What type of architecture does your app use?

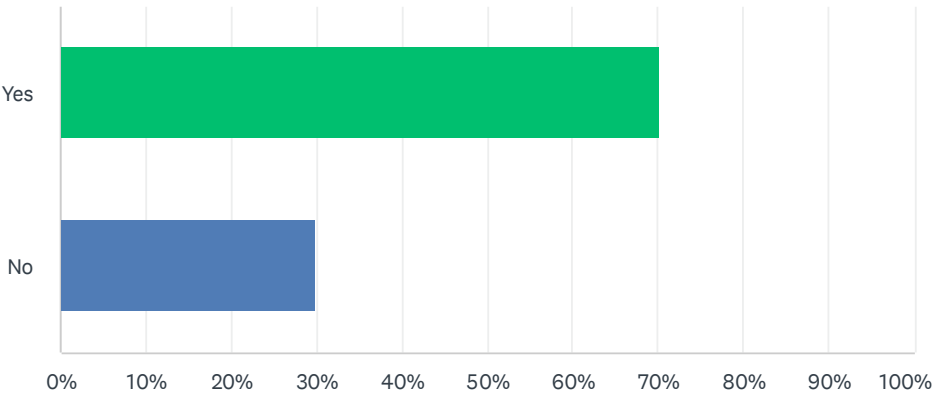
Answered: 388 Skipped: 131



ANSWER CHOICES	RESPONSES	
MVC	11.34%	44
MVVM	52.58%	204
VIPER	3.87%	15
Clean	9.28%	36
TCA	4.12%	16
RIBs	1.80%	7
Other (please specify)	17.01%	66
TOTAL		388

Q46 Do you participate in platform specific or general mobile meetups within your company?

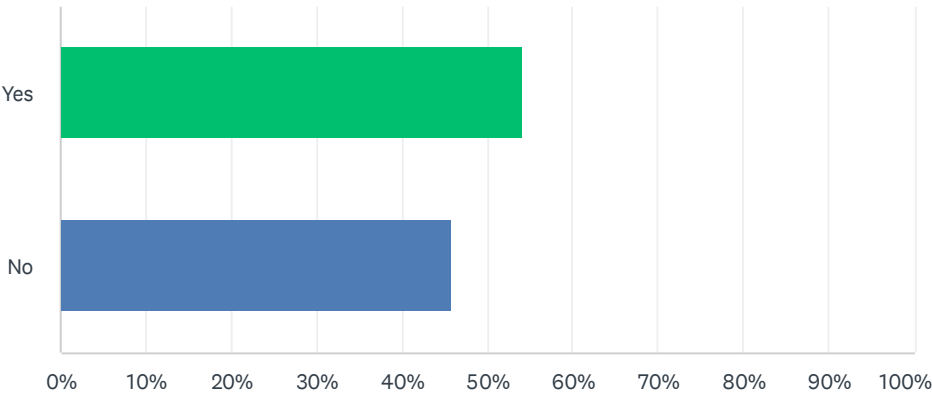
Answered: 393 Skipped: 126



ANSWER CHOICES	RESPONSES	
Yes	70.23%	276
No	29.77%	117
TOTAL		393

Q47 Do you participate in platform specific or general mobile meetups outside your company?

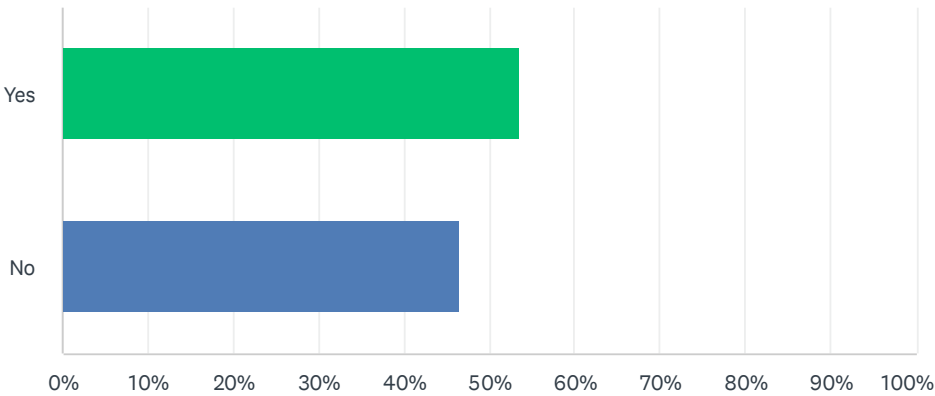
Answered: 393 Skipped: 126



ANSWER CHOICES	RESPONSES	
Yes	54.20%	213
No	45.80%	180
TOTAL		393

Q48 Does your company sponsor employees to speak at conferences?
For example encouraging you to speak, and/or paying for travel,
sponsoring entire conferences?

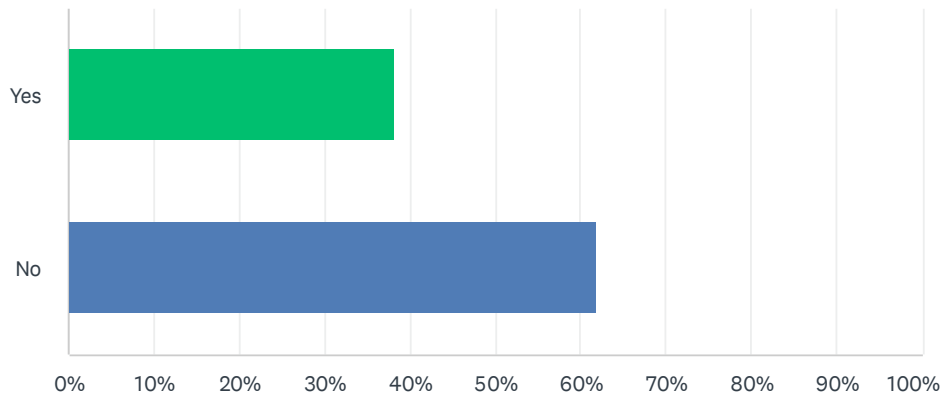
Answered: 391 Skipped: 128



ANSWER CHOICES		RESPONSES	
Yes		53.45%	209
No		46.55%	182
TOTAL			391

Q49 In a typical year, do you attend any large mobile related conferences like WWDC or Google I/O?

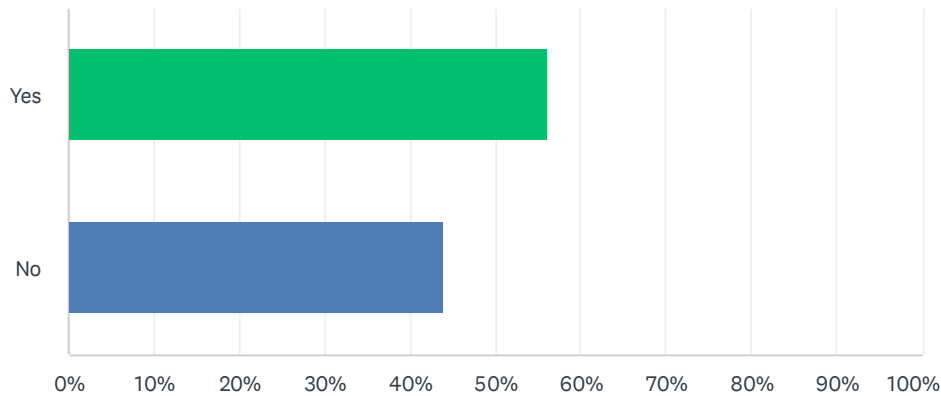
Answered: 394 Skipped: 125



ANSWER CHOICES	RESPONSES	
Yes	38.07%	150
No	61.93%	244
TOTAL		394

Q50 In a typical year, do you attend any community driven conferences?

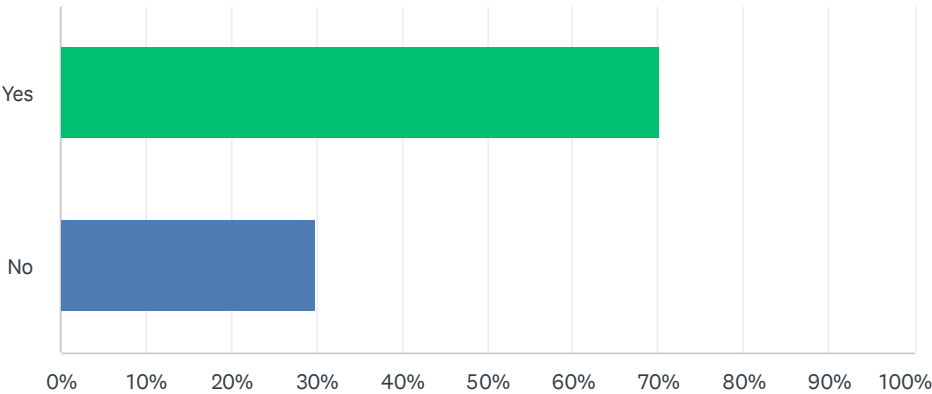
Answered: 394 Skipped: 125



ANSWER CHOICES	RESPONSES	
Yes	56.09%	221
No	43.91%	173
TOTAL		394

Q51 Do you participate in online communities relating to mobile development (ie Slack groups, forums, etc)?

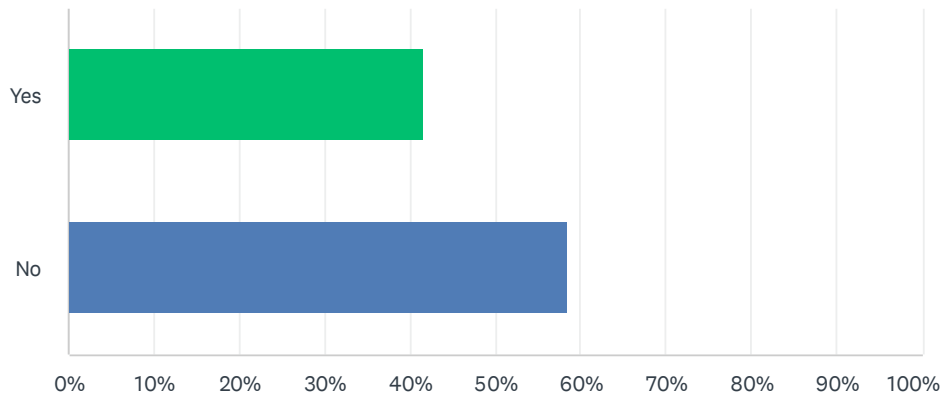
Answered: 392 Skipped: 127



ANSWER CHOICES		RESPONSES	
Yes		70.15%	275
No		29.85%	117
TOTAL			392

Q52 Do you participate in open source development relating to mobile, in your personal time?

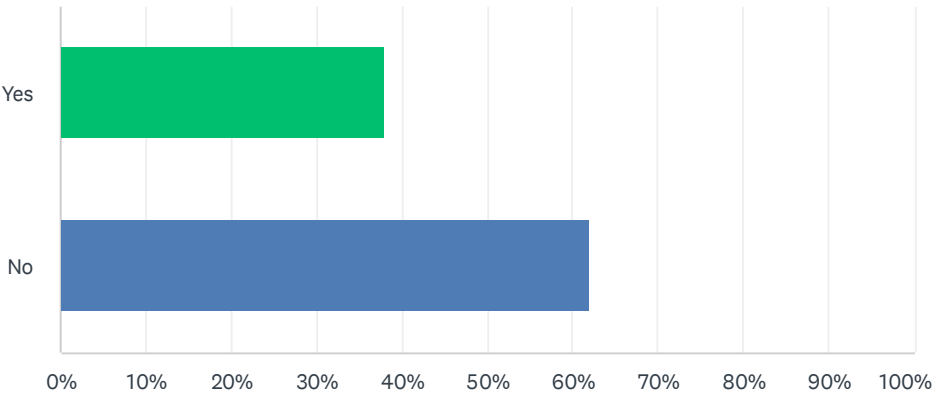
Answered: 393 Skipped: 126



ANSWER CHOICES	RESPONSES	
Yes	41.48%	163
No	58.52%	230
TOTAL		393

Q53 Do you participate in open source development relating to mobile, while on company time?

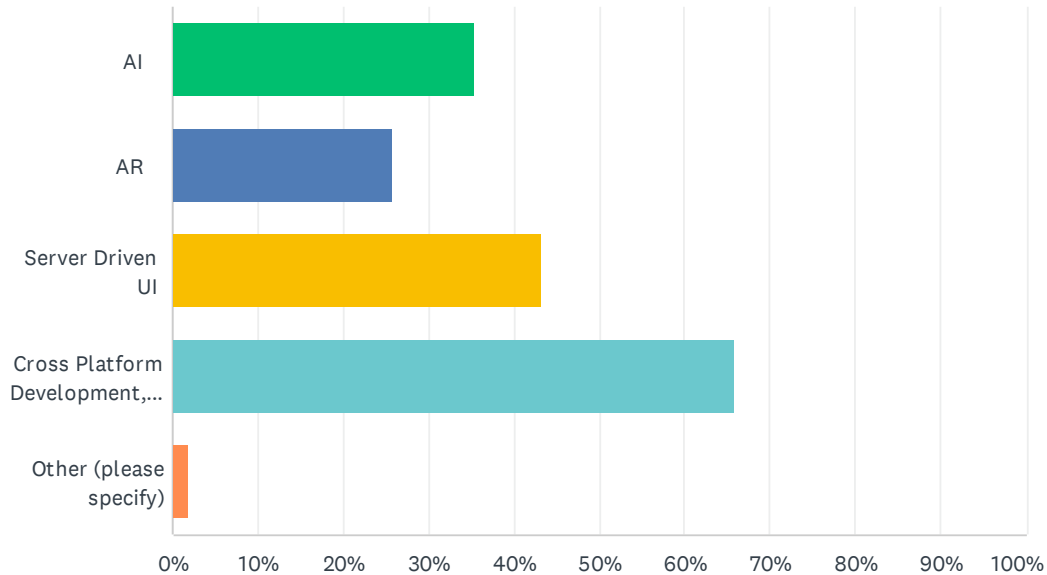
Answered: 392 Skipped: 127



ANSWER CHOICES	RESPONSES	
Yes	38.01%	149
No	61.99%	243
TOTAL		392

Q54 Are you excited about any of the following new and cutting edge fields?

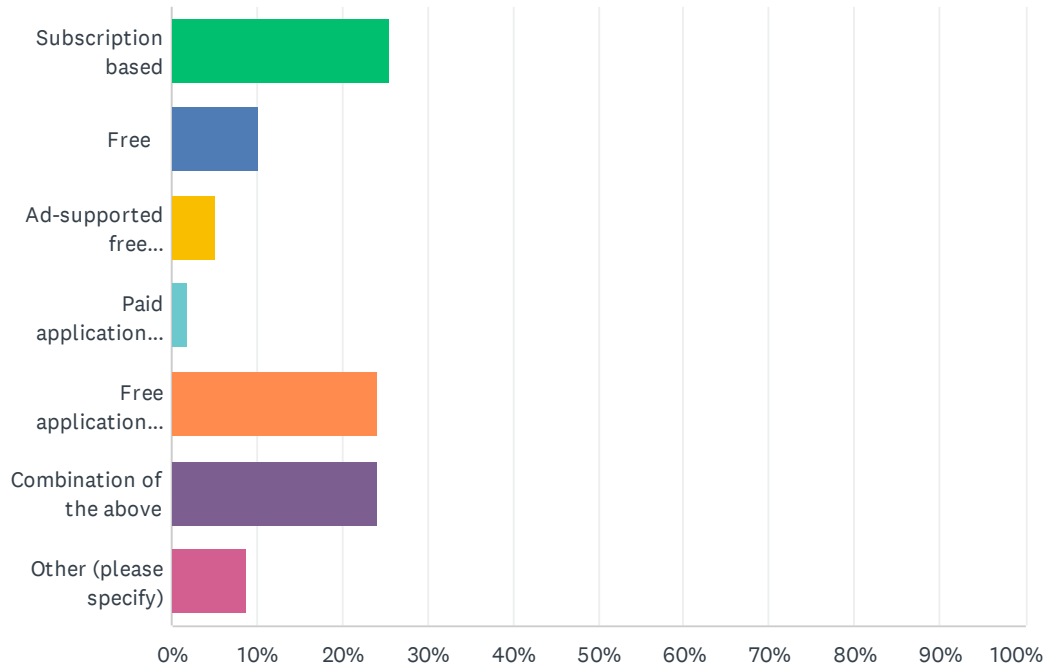
Answered: 302 Skipped: 217



ANSWER CHOICES	RESPONSES	
AI	35.43%	107
AR	25.83%	78
Server Driven UI	43.38%	131
Cross Platform Development, e.g. Kotlin Multiplatform	65.89%	199
Other (please specify)	1.99%	6
Total Respondents: 302		

Q55 What is your company's business model?

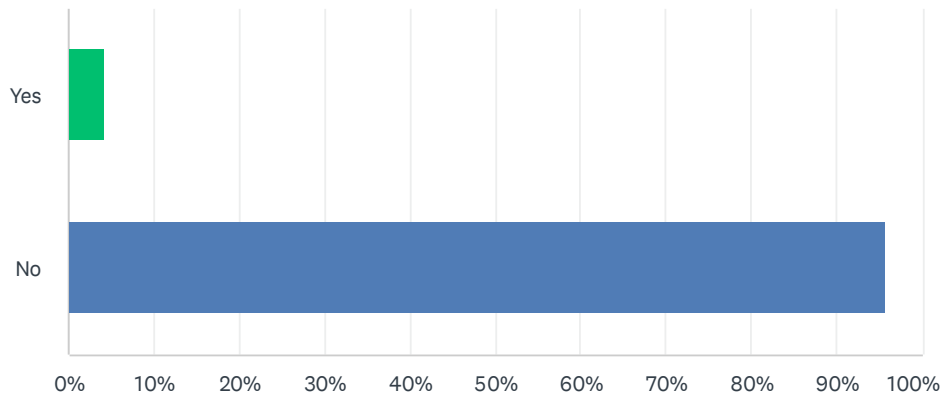
Answered: 368 Skipped: 151



ANSWER CHOICES	RESPONSES	
Subscription based	25.54%	94
Free	10.33%	38
Ad-supported free application	5.16%	19
Paid application (non subscription)	1.90%	7
Free application with physical goods or services exchanged	24.18%	89
Combination of the above	24.18%	89
Other (please specify)	8.70%	32
TOTAL		368

Q56 Does your business build games?

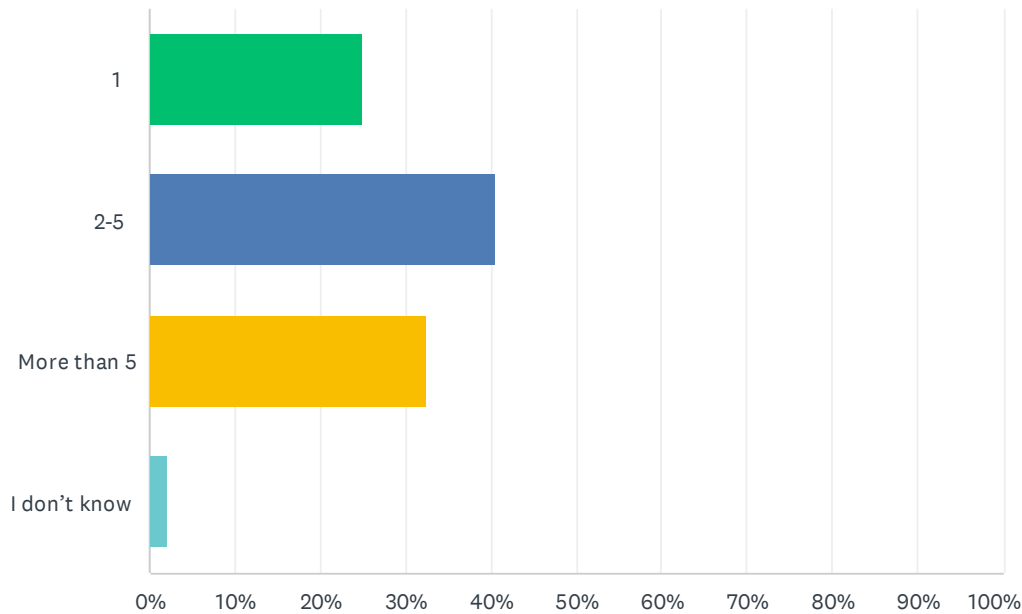
Answered: 370 Skipped: 149



ANSWER CHOICES	RESPONSES	
Yes	4.32%	16
No	95.68%	354
TOTAL		370

Q57 How many apps does your business support?

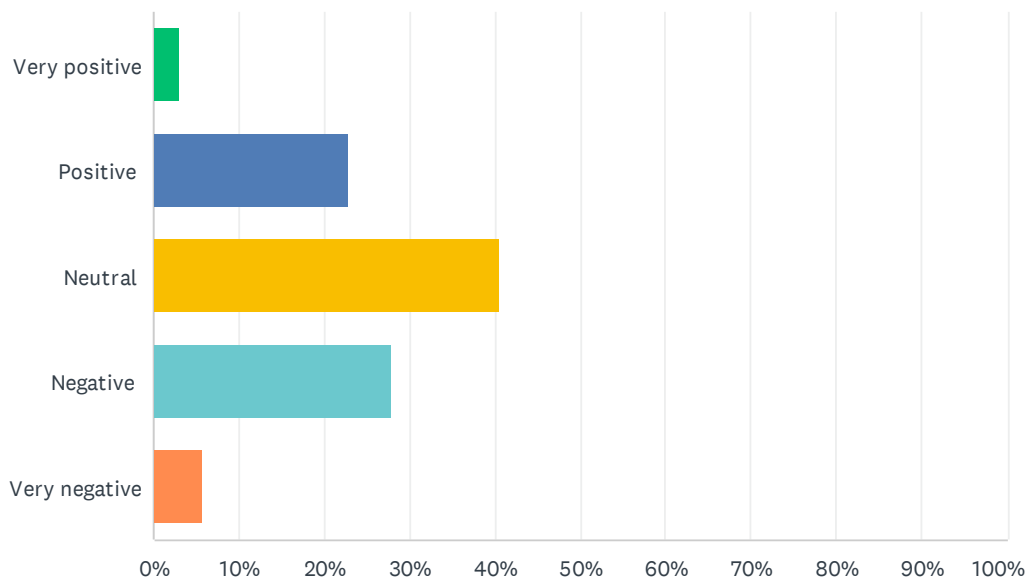
Answered: 370 Skipped: 149



ANSWER CHOICES	RESPONSES	
1	24.86%	92
2-5	40.54%	150
More than 5	32.43%	120
I don't know	2.16%	8
TOTAL		370

Q58 What is your sentiment around current iOS App Store practices?

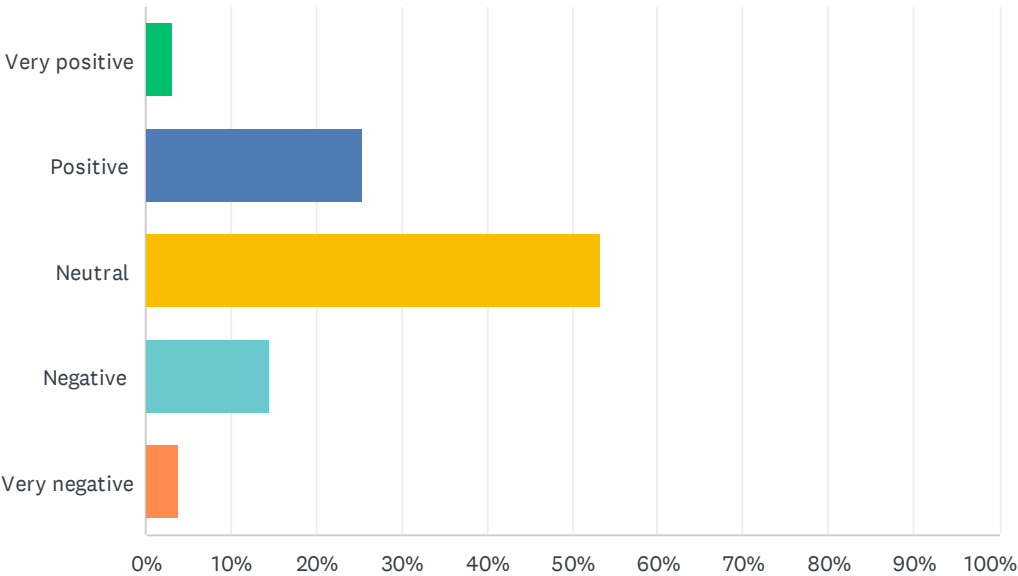
Answered: 346 Skipped: 173



ANSWER CHOICES	RESPONSES	
Very positive	2.89%	10
Positive	22.83%	79
Neutral	40.46%	140
Negative	28.03%	97
Very negative	5.78%	20
TOTAL		346

Q59 What is your sentiment around current Android Play Store practices?

Answered: 319 Skipped: 200



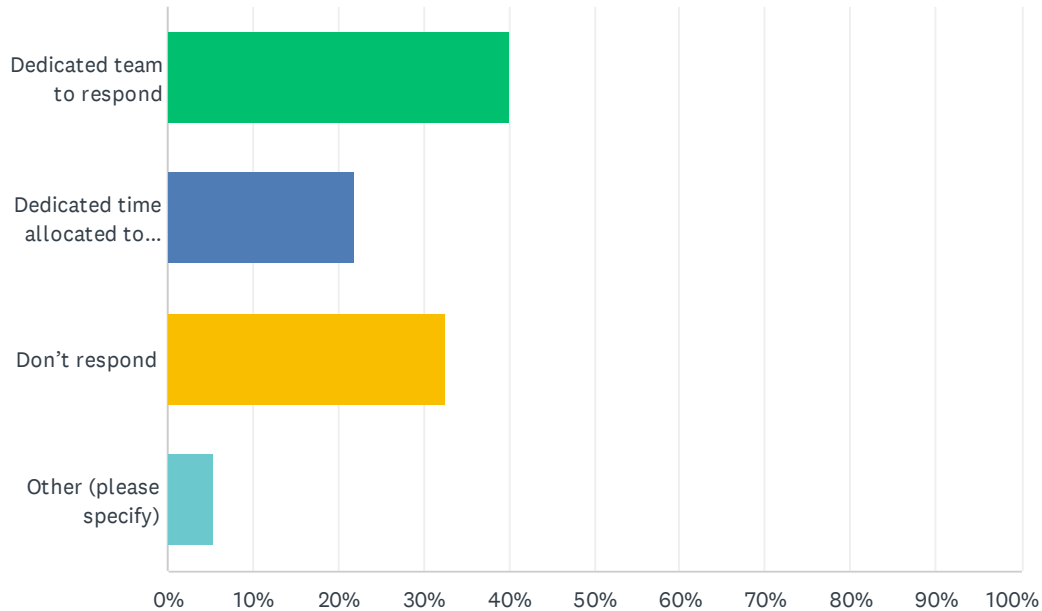
ANSWER CHOICES		RESPONSES	
Very positive		3.13%	10
Positive		25.39%	81
Neutral		53.29%	170
Negative		14.42%	46
Very negative		3.76%	12
TOTAL			319

Q60 Please describe your sentiment around current App Store practices in more detail?

Answered: 102 Skipped: 417

Q61 How does your business handle app reviews, especially 1-star reviews?

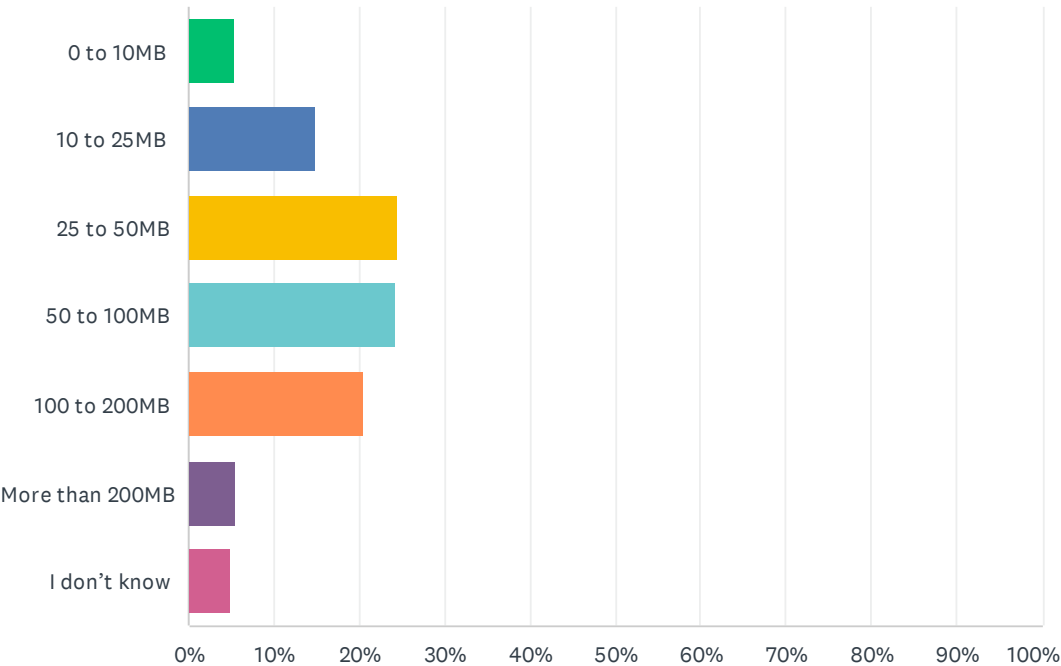
Answered: 334 Skipped: 185



ANSWER CHOICES	RESPONSES	
Dedicated team to respond	40.12%	134
Dedicated time allocated to respond, but no specific team	21.86%	73
Don't respond	32.63%	109
Other (please specify)	5.39%	18
TOTAL		334

Q62 How large is your app’s download size?

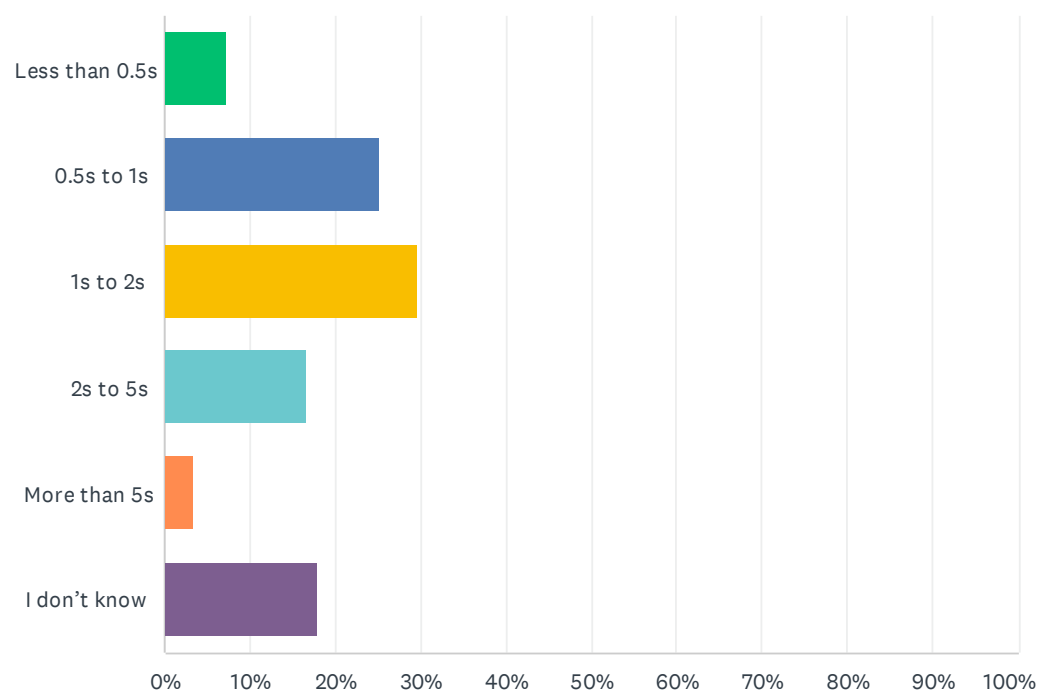
Answered: 362 Skipped: 157



ANSWER CHOICES	RESPONSES	
0 to 10MB	5.25%	19
10 to 25MB	14.92%	54
25 to 50MB	24.59%	89
50 to 100MB	24.31%	88
100 to 200MB	20.44%	74
More than 200MB	5.52%	20
I don't know	4.97%	18
TOTAL		362

Q63 What is the cold start time for your application?

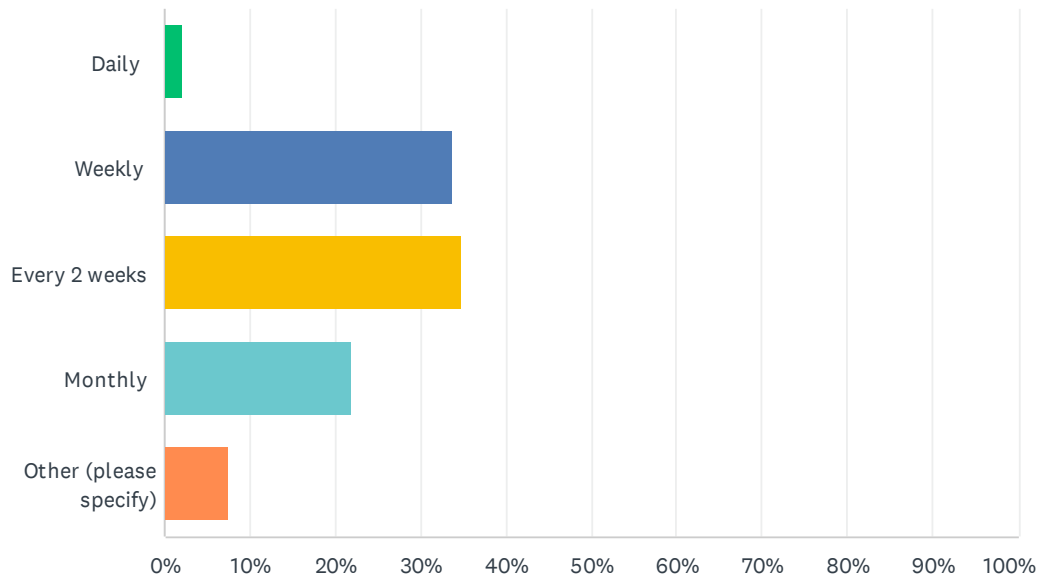
Answered: 361 Skipped: 158



ANSWER CHOICES	RESPONSES	
Less than 0.5s	7.20%	26
0.5s to 1s	25.21%	91
1s to 2s	29.64%	107
2s to 5s	16.62%	60
More than 5s	3.32%	12
I don't know	18.01%	65
TOTAL		361

Q64 How frequently do you release your application to the public?

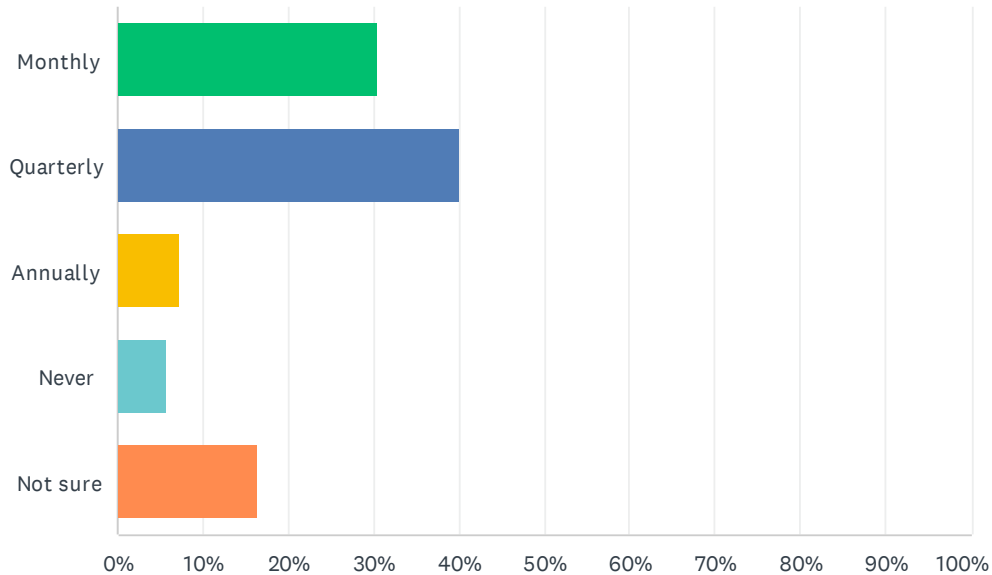
Answered: 365 Skipped: 154



ANSWER CHOICES	RESPONSES	
Daily	2.19%	8
Weekly	33.70%	123
Every 2 weeks	34.79%	127
Monthly	21.92%	80
Other (please specify)	7.40%	27
TOTAL		365

Q65 How frequently do you hotfix your application (perform a release outside your typical schedule)?

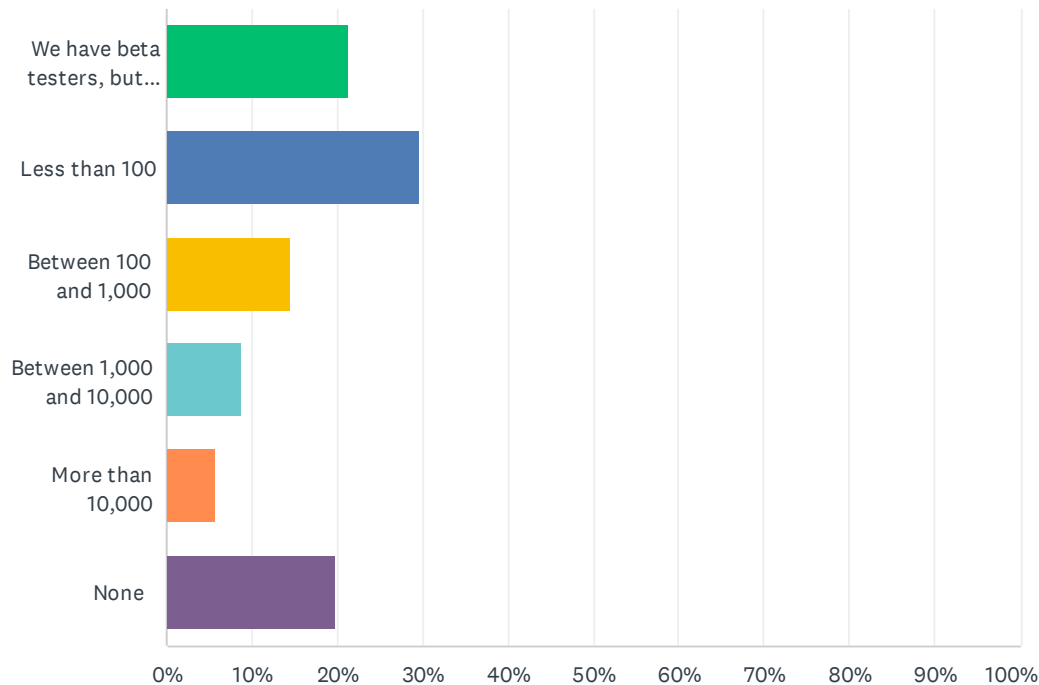
Answered: 361 Skipped: 158



ANSWER CHOICES	RESPONSES	
Monthly	30.47%	110
Quarterly	40.17%	145
Annually	7.20%	26
Never	5.82%	21
Not sure	16.34%	59
TOTAL		361

Q66 How many beta testers do you have?

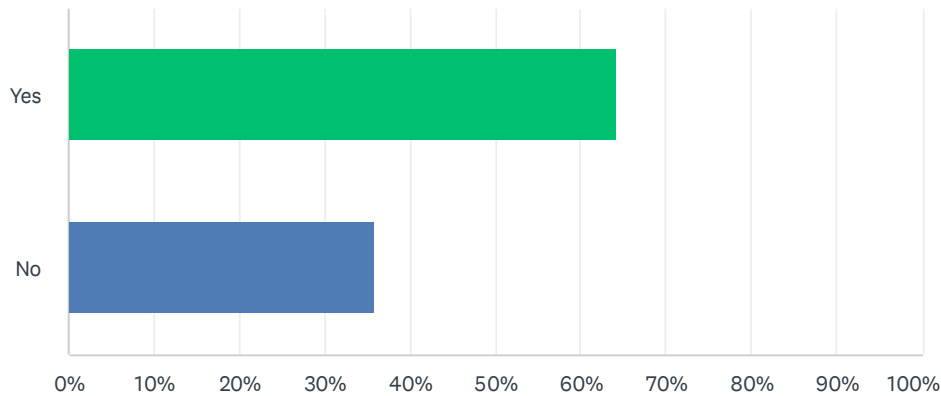
Answered: 364 Skipped: 155



ANSWER CHOICES	RESPONSES	
We have beta testers, but I'm not sure how many	21.43%	78
Less than 100	29.67%	108
Between 100 and 1,000	14.56%	53
Between 1,000 and 10,000	8.79%	32
More than 10,000	5.77%	21
None	19.78%	72
TOTAL		364

Q67 Do you phase in new releases (for example using Apple’s tooling for this)?

Answered: 355 Skipped: 164



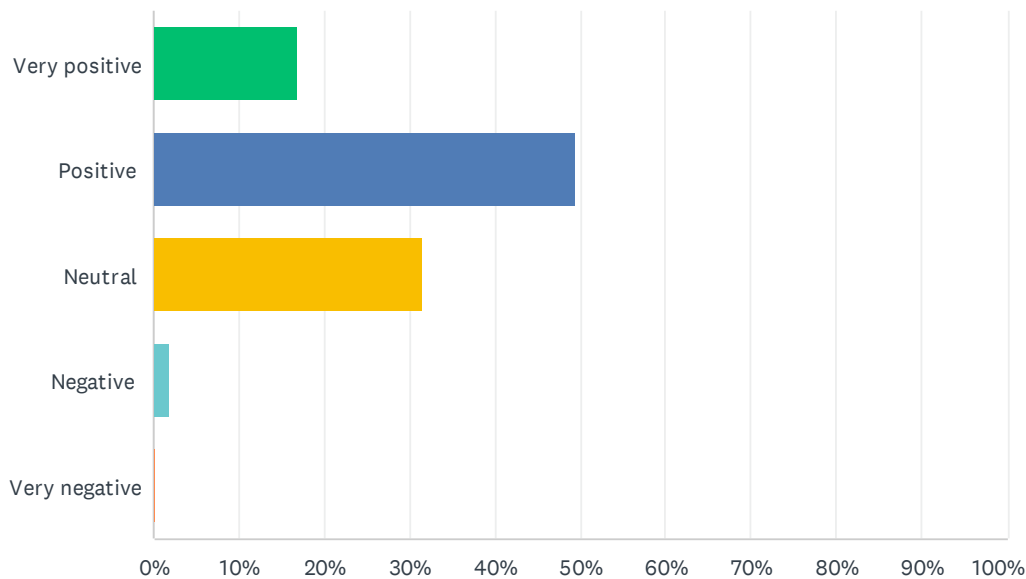
ANSWER CHOICES		RESPONSES	
Yes		64.23%	228
No		35.77%	127
TOTAL			355

Q68 Were there any questions you wished we had asked on this survey?

Answered: 43 Skipped: 476

Q69 After completing this survey, what is your sentiment about this survey, do you expect the results to be useful to you or the broader community?

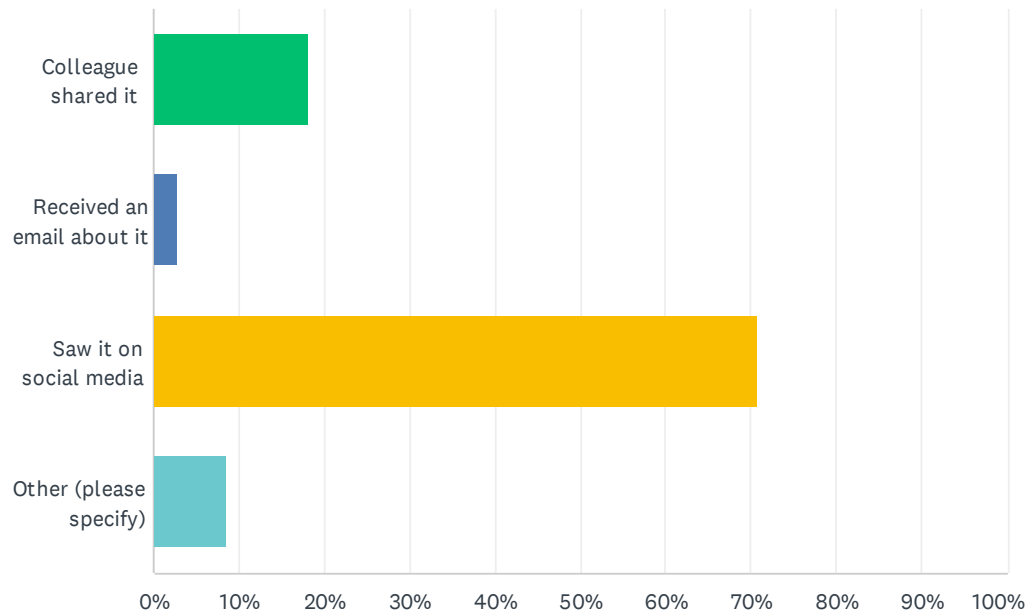
Answered: 352 Skipped: 167



ANSWER CHOICES	RESPONSES	
Very positive	16.76%	59
Positive	49.43%	174
Neutral	31.53%	111
Negative	1.99%	7
Very negative	0.28%	1
TOTAL		352

Q70 How did you find out about this survey?

Answered: 355 Skipped: 164



ANSWER CHOICES	RESPONSES	
Colleague shared it	18.03%	64
Received an email about it	2.82%	10
Saw it on social media	70.70%	251
Other (please specify)	8.45%	30
TOTAL		355

Q71 [Optional] What company do you work for?

Answered: 114 Skipped: 405