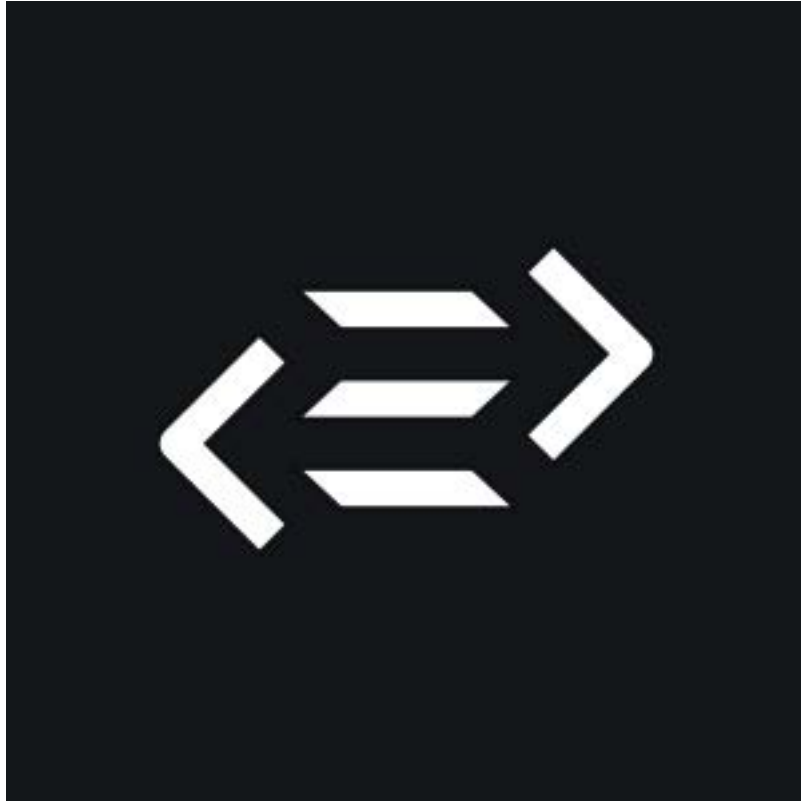
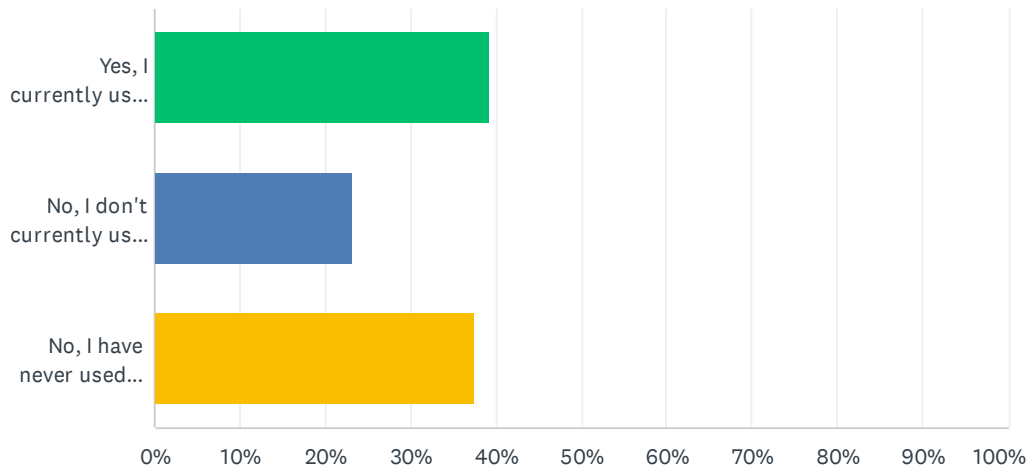


The PureScript 2023 Survey Results



Q1 Do you use PureScript?

Answered: 527 Skipped: 0



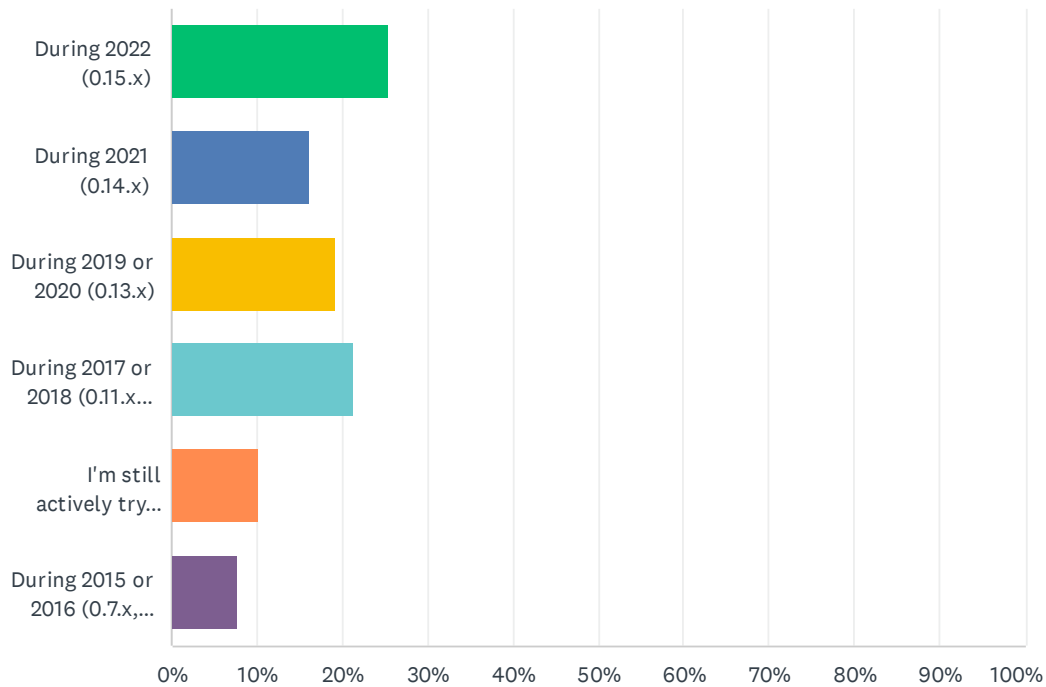
ANSWER CHOICES	RESPONSES	
Yes, I currently use PureScript.	39.28%	207
No, I don't currently use PureScript, but I have in the past.	23.15%	122
No, I have never used PureScript.	37.57%	198
TOTAL		527

Section 1.1

Questions for Current PureScript Users

Q3 When did you learn to program in PureScript?

Answered: 197 Skipped: 330



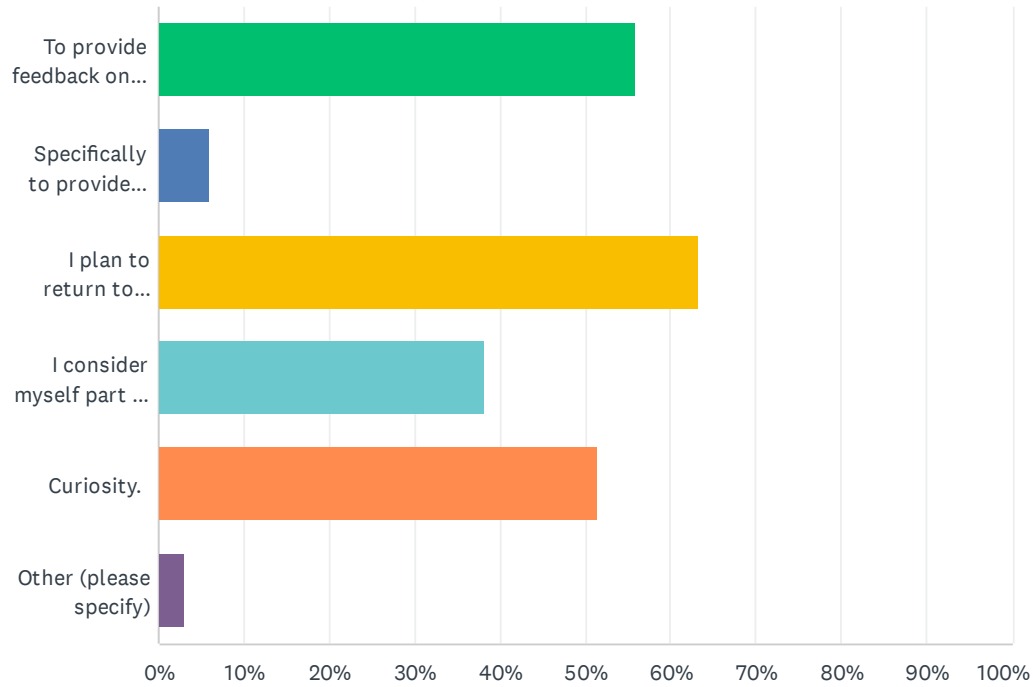
ANSWER CHOICES	RESPONSES	
During 2022 (0.15.x)	25.38%	50
During 2021 (0.14.x)	16.24%	32
During 2019 or 2020 (0.13.x)	19.29%	38
During 2017 or 2018 (0.11.x, 0.12.x)	21.32%	42
I'm still actively trying to learn PureScript.	10.15%	20
During 2015 or 2016 (0.7.x, 0.8.x, 0.9.x, 0.10.x)	7.61%	15
TOTAL		197

Section 1.2

Questions for Prior PureScript Users

Q4 As you have indicated that you're no longer using PureScript, what prompted you to participate in this survey?

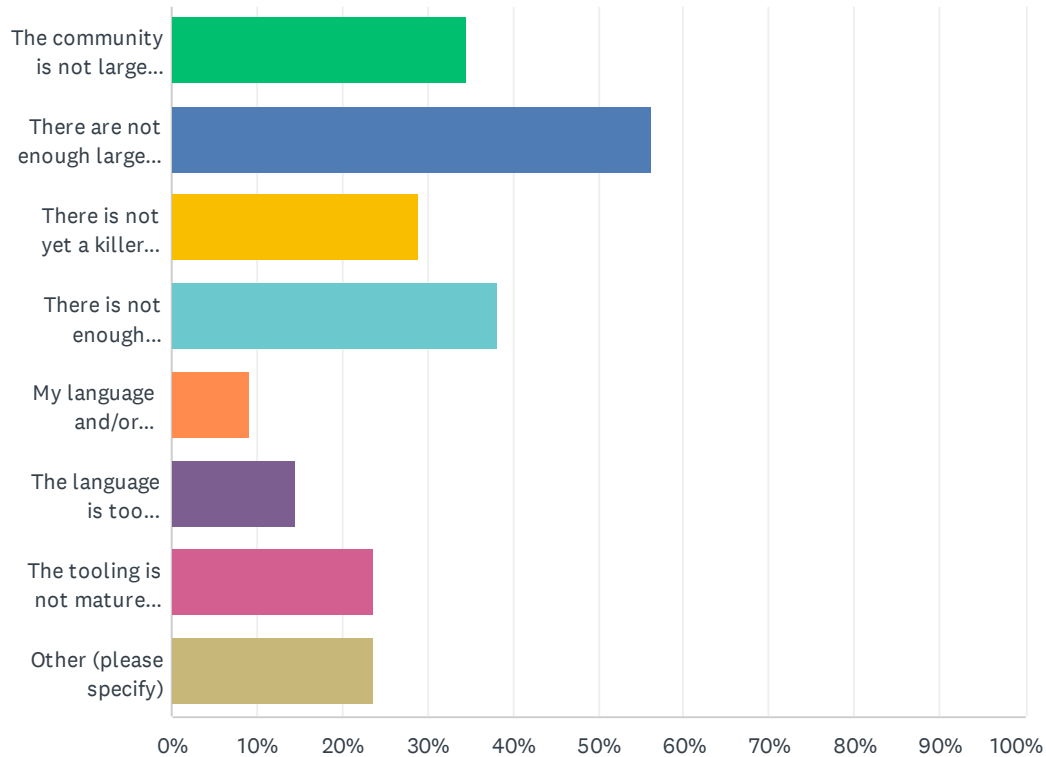
Answered: 68 Skipped: 459



ANSWER CHOICES	RESPONSES	
To provide feedback on PureScript in general.	55.88%	38
Specifically to provide feedback on why I stopped using PureScript.	5.88%	4
I plan to return to PureScript in the future.	63.24%	43
I consider myself part of the PureScript community.	38.24%	26
Curiosity.	51.47%	35
Other (please specify)	2.94%	2
Total Respondents: 68		

Q7 What issues in the PureScript ecosystem do you feel need the most urgent attention?

Answered: 55 Skipped: 472

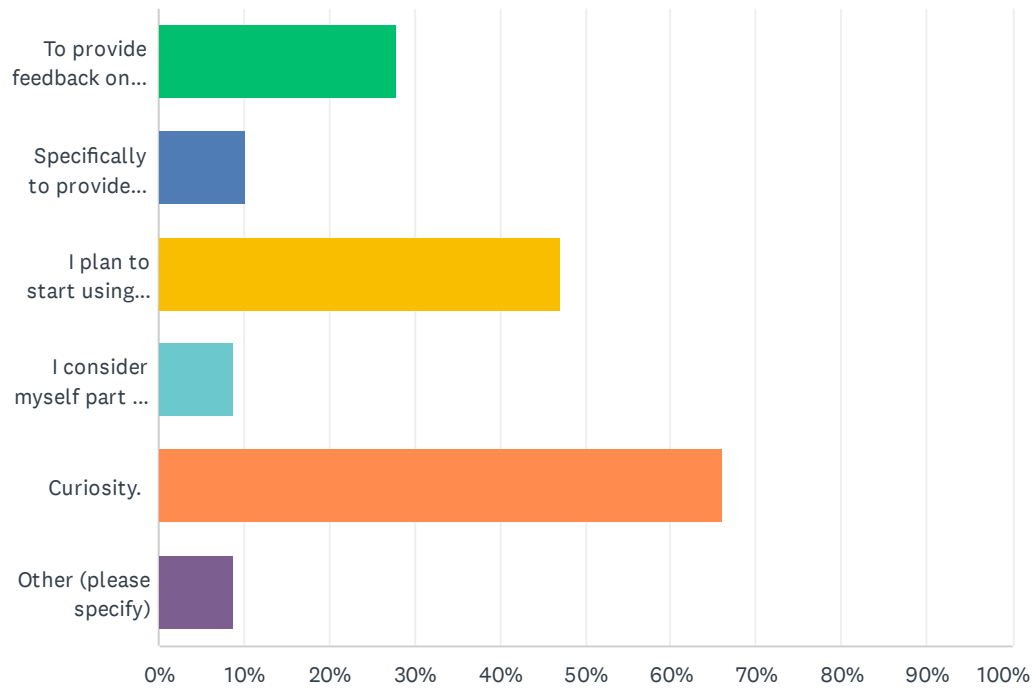


ANSWER CHOICES	RESPONSES	
The community is not large enough.	34.55%	19
There are not enough large companies using PureScript in production.	56.36%	31
There is not yet a killer app written in PureScript.	29.09%	16
There is not enough PureScript documentation online, including examples and tutorials.	38.18%	21
My language and/or community lacks enough documentation and meetups for me to get involved.	9.09%	5
The language is too difficult to grasp.	14.55%	8
The tooling is not mature enough.	23.64%	13
Other (please specify)	23.64%	13
Total Respondents: 55		

Section 1.3

Questions for Those Not Using PureScript

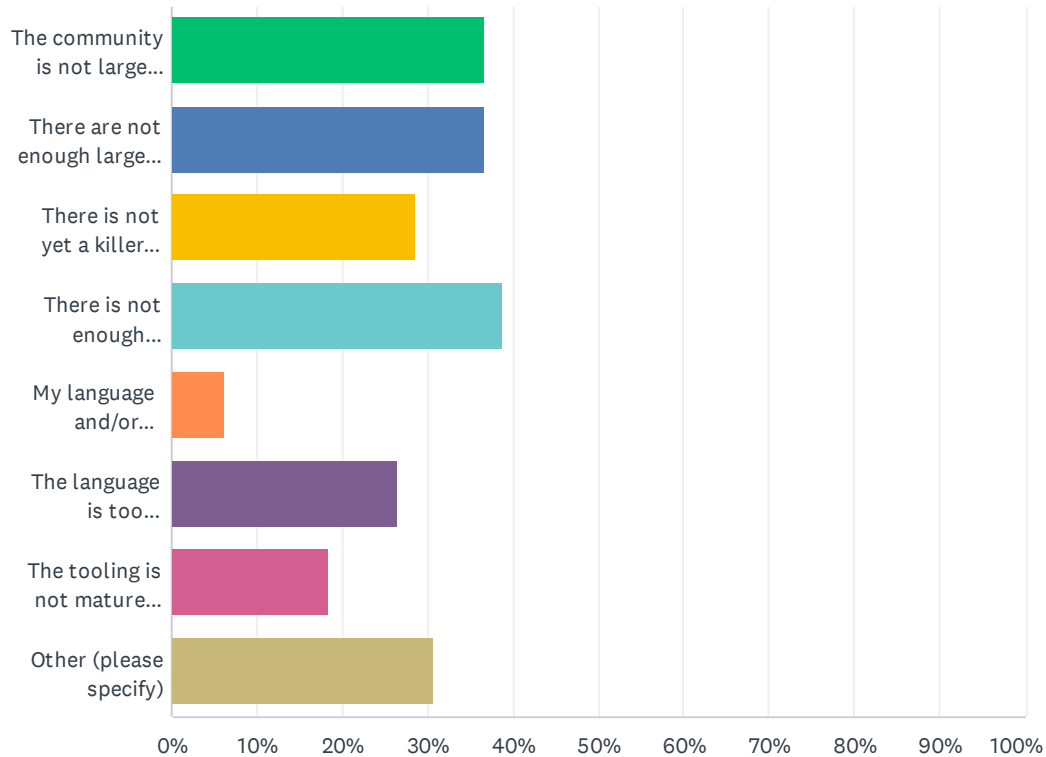
Q8 As you have indicated that you have never used PureScript, what prompted you to participate in this survey?



ANSWER CHOICES	RESPONSES	
To provide feedback on PureScript in general.	27.94%	19
Specifically to provide feedback on why I have never used PureScript.	10.29%	7
I plan to start using PureScript in the future.	47.06%	32
I consider myself part of the PureScript community.	8.82%	6
Curiosity.	66.18%	45
Other (please specify)	8.82%	6
Total Respondents: 68		

Q11 What issues in the PureScript ecosystem do you feel need the most urgent attention?

Answered: 49 Skipped: 478



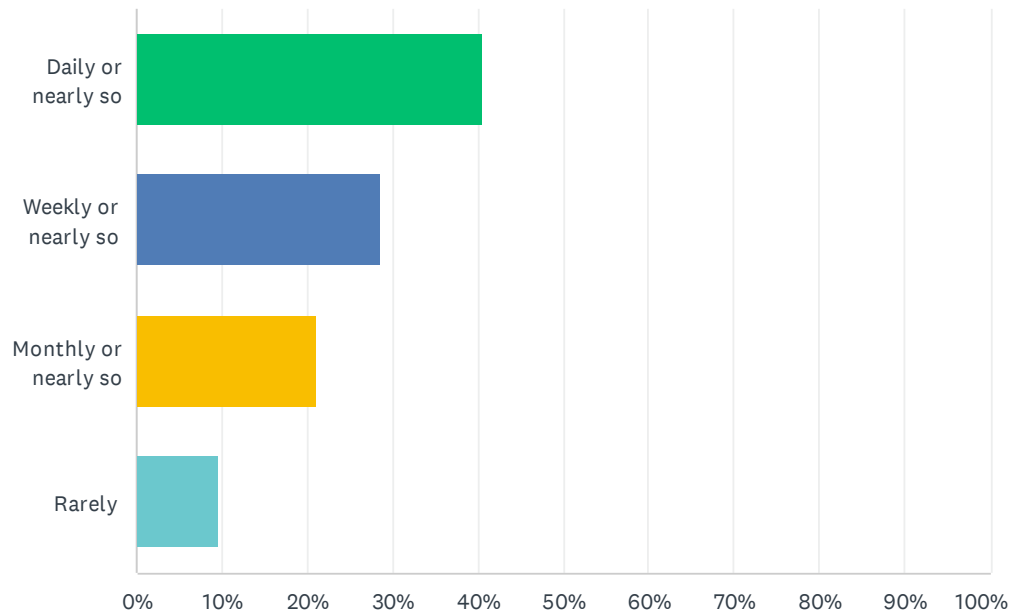
ANSWER CHOICES	RESPONSES	
The community is not large enough.	36.73%	18
There are not enough large companies using PureScript in production.	36.73%	18
There is not yet a killer app written in PureScript.	28.57%	14
There is not enough PureScript documentation online, including examples and tutorials.	38.78%	19
My language and/or community lacks enough documentation and meetups for me to get involved.	6.12%	3
The language is too difficult to grasp.	26.53%	13
The tooling is not mature enough.	18.37%	9
Other (please specify)	30.61%	15
Total Respondents: 49		

Section 2

Your PureScript Experience

Q12 On average, how often do you use PureScript?

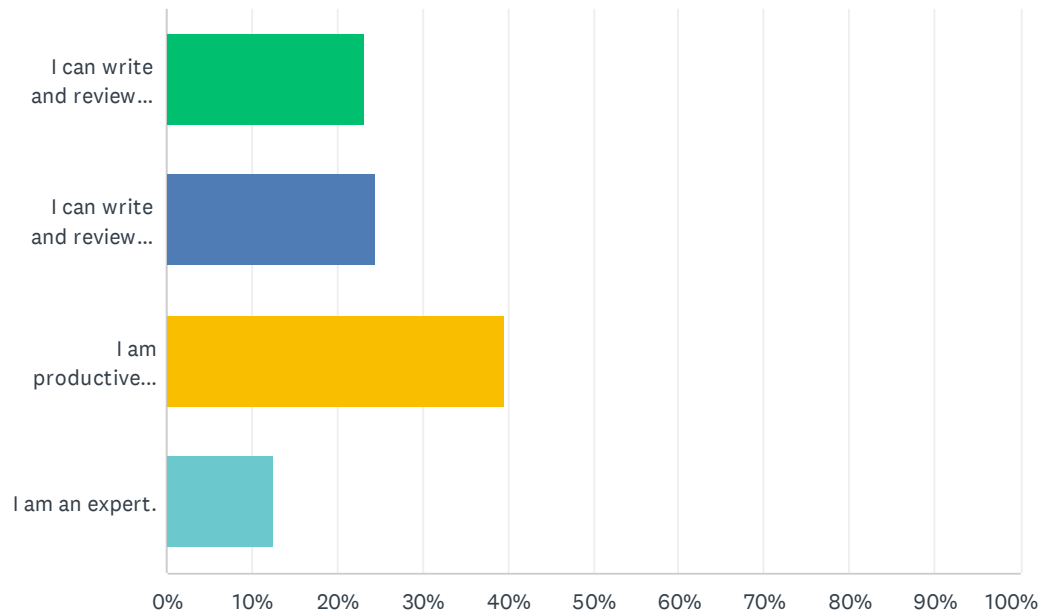
Answered: 165 Skipped: 362



ANSWER CHOICES	RESPONSES	
Daily or nearly so	40.61%	67
Weekly or nearly so	28.48%	47
Monthly or nearly so	21.21%	35
Rarely	9.70%	16
TOTAL		165

Q13 How would you rate your PureScript expertise?

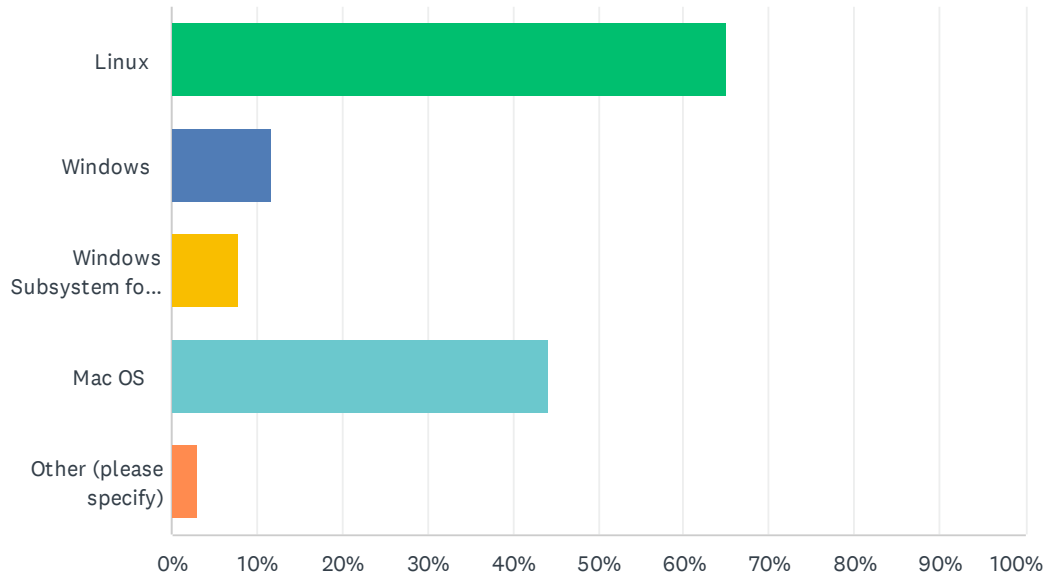
Answered: 159 Skipped: 368



ANSWER CHOICES	RESPONSES	
I can write and review simple scripts, services, applications or programs in PureScript.	23.27%	37
I can write and review useful, production-ready code but it is a struggle.	24.53%	39
I am productive writing PureScript and regularly review/write production-level code.	39.62%	63
I am an expert.	12.58%	20
TOTAL		159

Q14 Which operating systems do you use regularly for PureScript development?

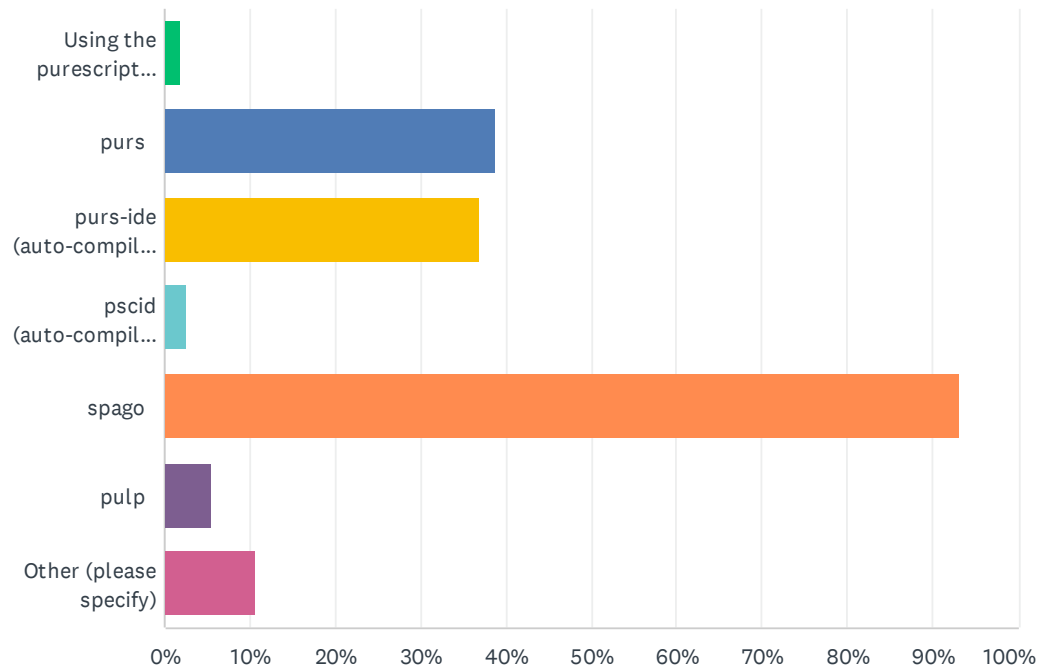
Answered: 163 Skipped: 364



ANSWER CHOICES	RESPONSES	
Linux	65.03%	106
Windows	11.66%	19
Windows Subsystem for Linux	7.98%	13
Mac OS	44.17%	72
Other (please specify)	3.07%	5
Total Respondents: 163		

Q15 What tools do you most frequently use to compile PureScript code?

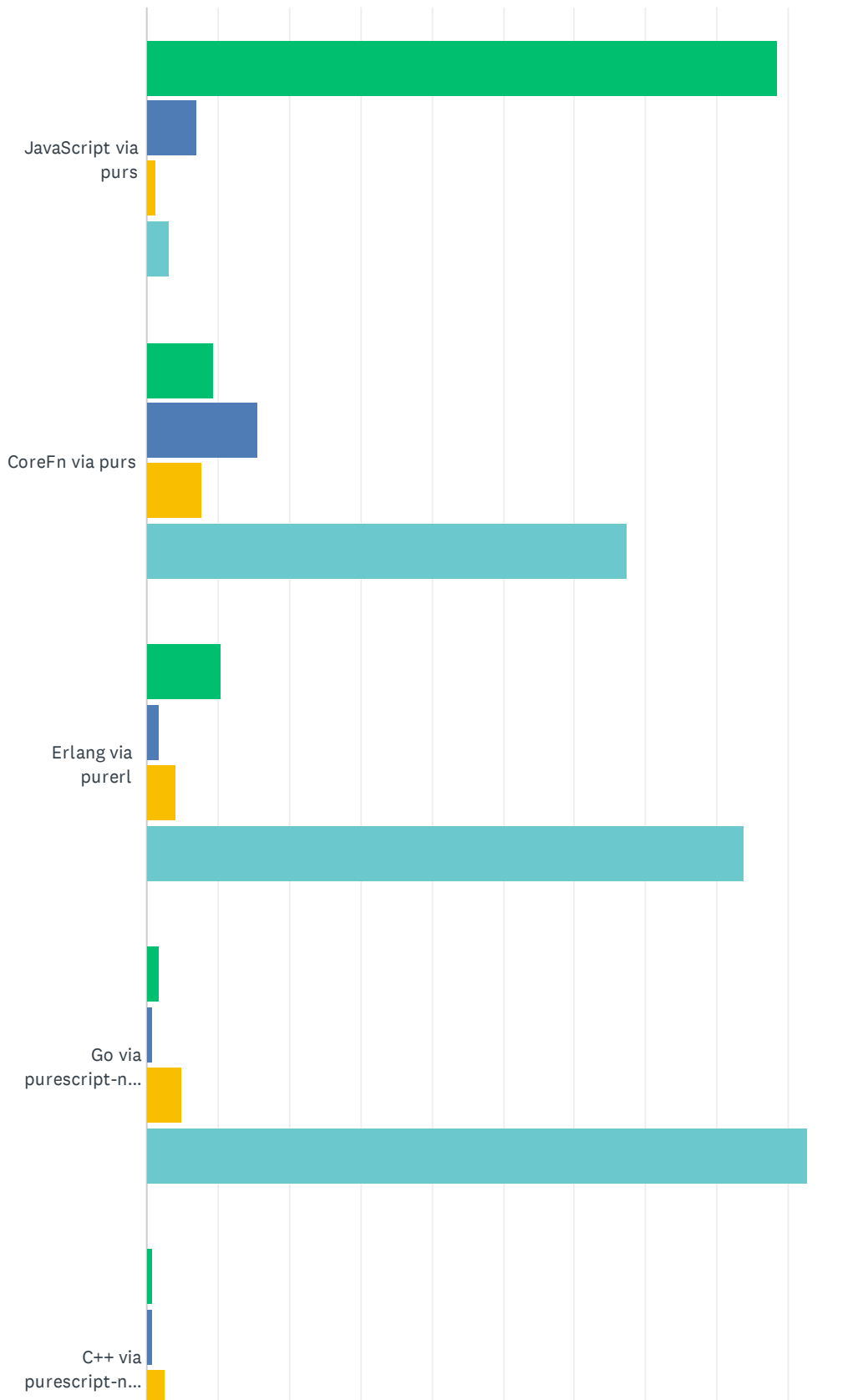
Answered: 160 Skipped: 367

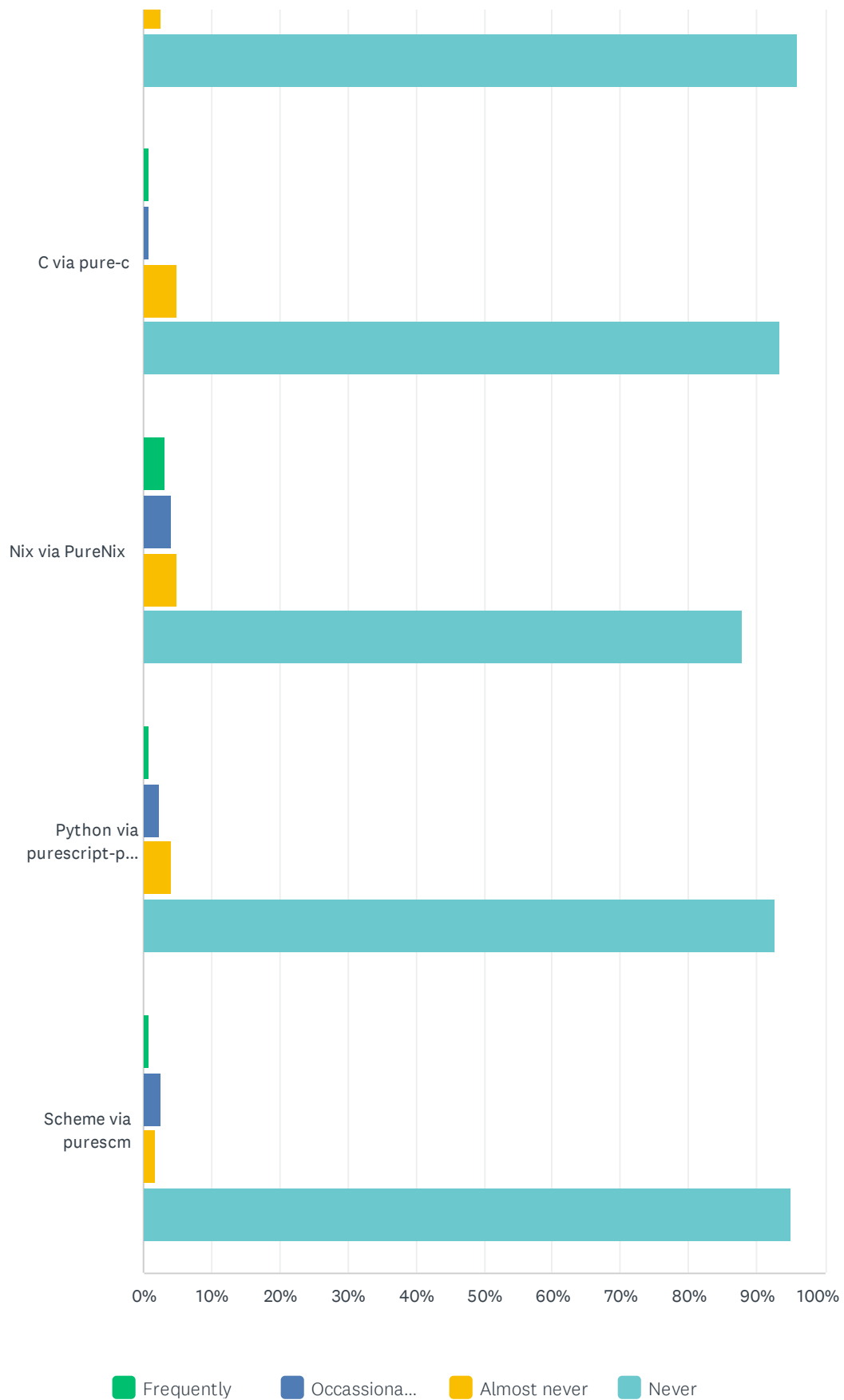


ANSWER CHOICES	RESPONSES	
Using the purescript Haskell library directly.	1.88%	3
purs	38.75%	62
purs-ide (auto-compilation via an editor)	36.88%	59
pscid (auto-compilation on the command line)	2.50%	4
spago	93.13%	149
pulp	5.63%	9
Other (please specify)	10.63%	17
Total Respondents: 160		

Q16 How often do you use the following output targets?

Answered: 158 Skipped: 369



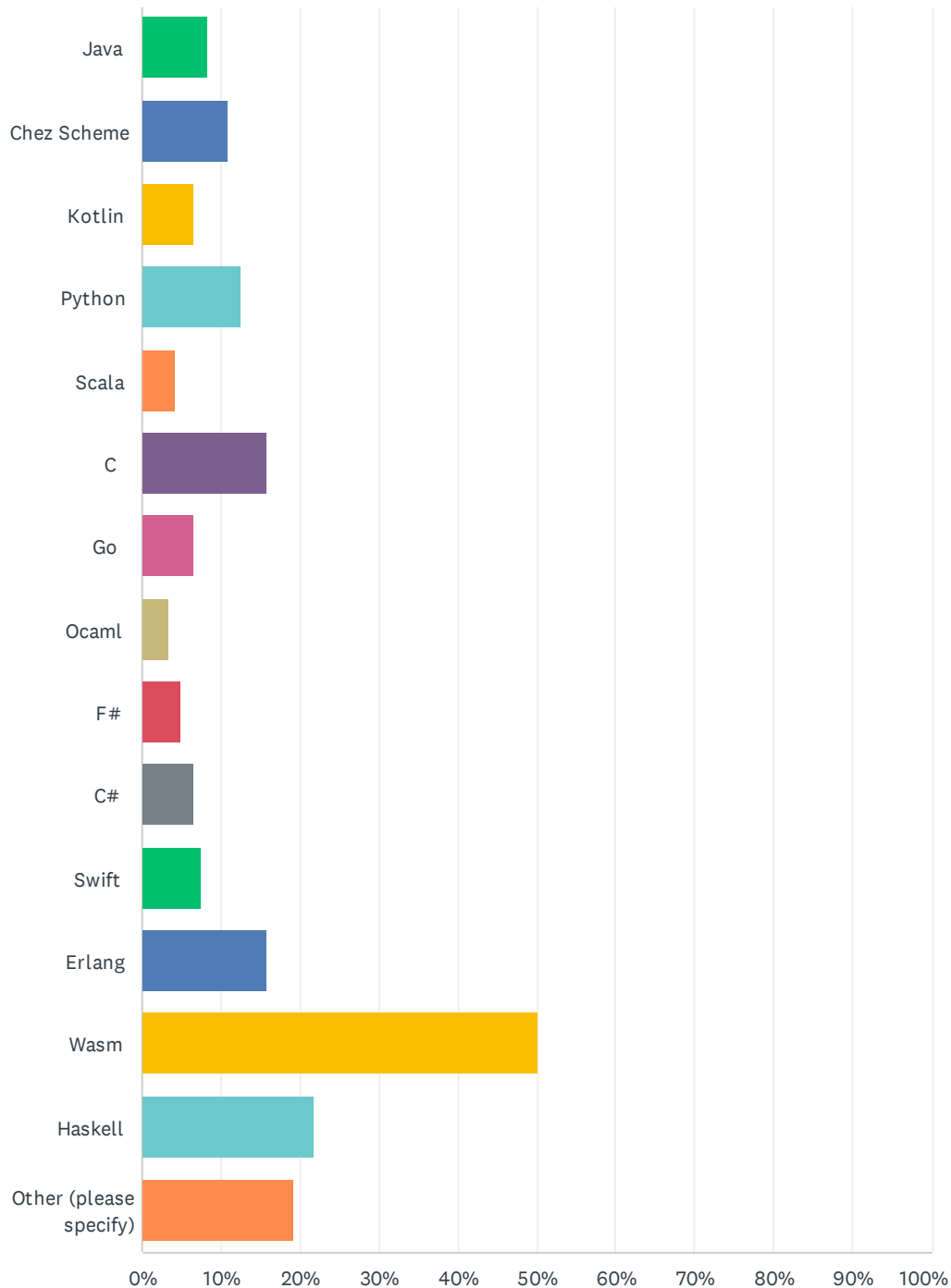


	FREQUENTLY	OCCASSIONALLY	ALMOST NEVER	NEVER	TOTAL	WEIGHTED AVERAGE
JavaScript via purs	88.46% 138	7.05% 11	1.28% 2	3.21% 5	156	1.19
CoreFn via purs	9.30% 12	15.50% 20	7.75% 10	67.44% 87	129	3.33
Erlang via purerl	10.48% 13	1.61% 2	4.03% 5	83.87% 104	124	3.61
Go via purescript-native	1.60% 2	0.80% 1	4.80% 6	92.80% 116	125	3.89
C++ via purescript-native	0.83% 1	0.83% 1	2.48% 3	95.87% 116	121	3.93
C via pure-c	0.81% 1	0.81% 1	4.88% 6	93.50% 115	123	3.91
Nix via PureNix	3.25% 4	4.07% 5	4.88% 6	87.80% 108	123	3.77
Python via purescript-python	0.81% 1	2.44% 3	4.07% 5	92.68% 114	123	3.89
Scheme via purescm	0.83% 1	2.48% 3	1.65% 2	95.04% 115	121	3.91

Q17 Which PureScript backends would you like to see either developed more or continued? Please only choose those that you believe you would personally use in the next year.

Section 4.3 Questions for Those Not Using PureScript

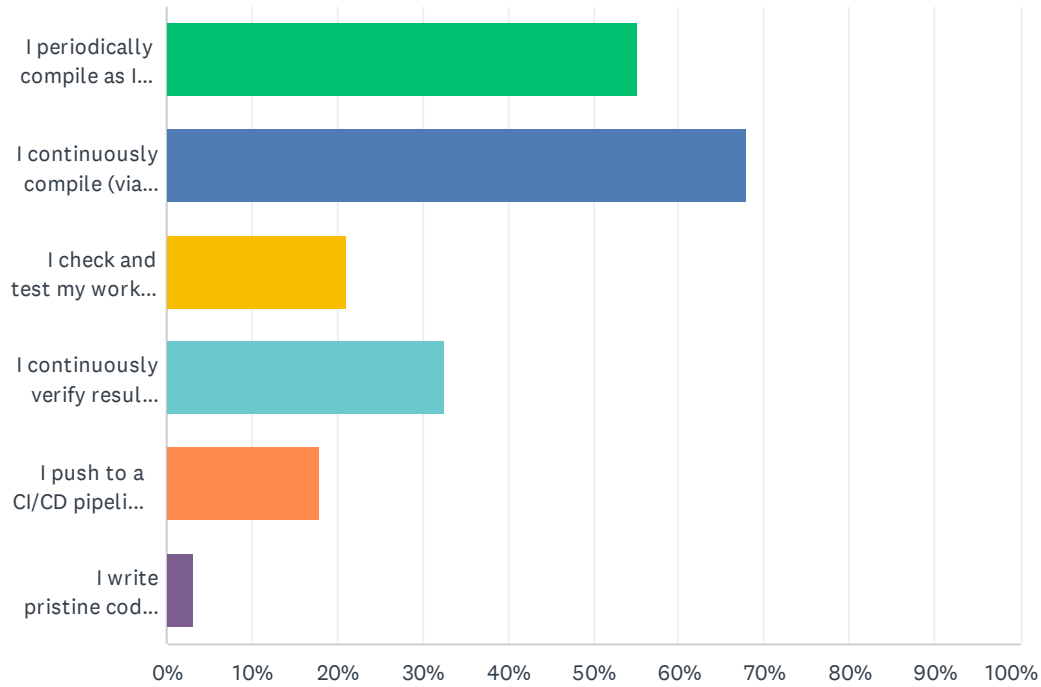
Answered: 120 Skipped: 407



ANSWER CHOICES	RESPONSES	
Java	8.33%	10
Chez Scheme	10.83%	13
Kotlin	6.67%	8
Python	12.50%	15
Scala	4.17%	5
C	15.83%	19
Go	6.67%	8
Ocaml	3.33%	4
F#	5.00%	6
C#	6.67%	8
Swift	7.50%	9
Erlang	15.83%	19
Wasm	50.00%	60
Haskell	21.67%	26
Other (please specify)	19.17%	23
Total Respondents: 120		

Q18 What statements below could describe the way you iterate on PureScript code as you develop?

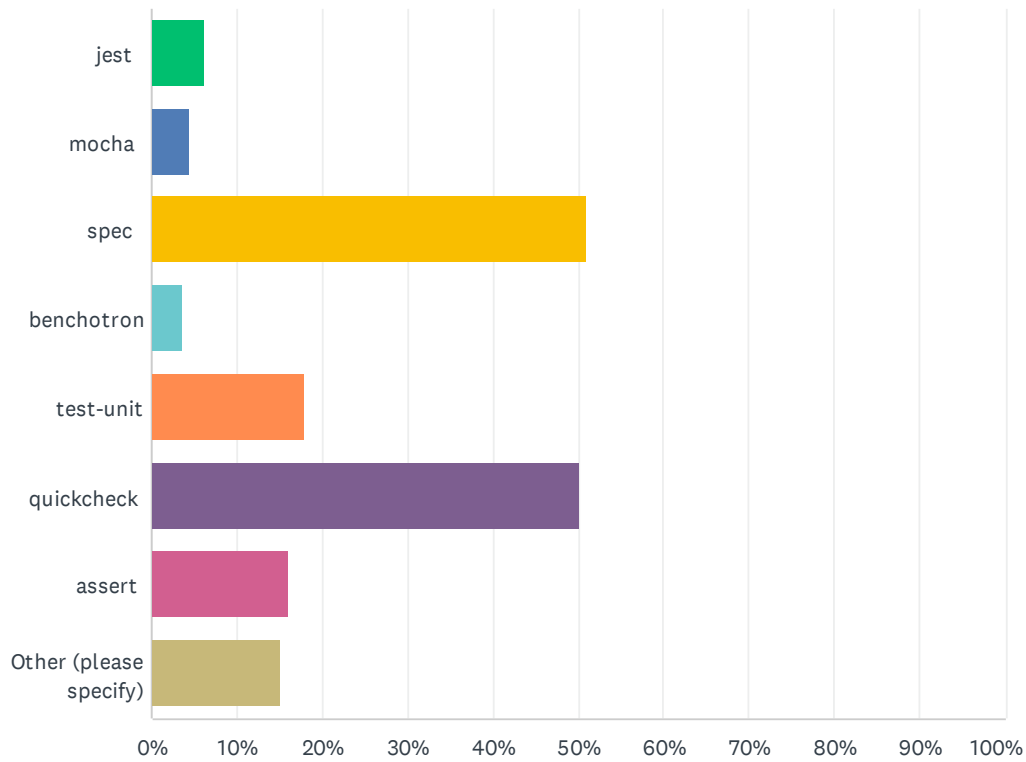
Answered: 156 Skipped: 371



ANSWER CHOICES	RESPONSES	
I periodically compile as I write PureScript code (via spago build, pulp build, etc.).	55.13%	86
I continuously compile (via spago watch, pulp watch, pscid, an IDE extension, etc.)	67.95%	106
I check and test my work in the PureScript repl.	21.15%	33
I continuously verify results via a hot-reload mechanism.	32.69%	51
I push to a CI/CD pipeline that builds a staging environment against which I iterate.	17.95%	28
I write pristine code and push it straight to production.	3.21%	5
Total Respondents: 156		

Q19 What libraries or frameworks do you use for testing PureScript code?

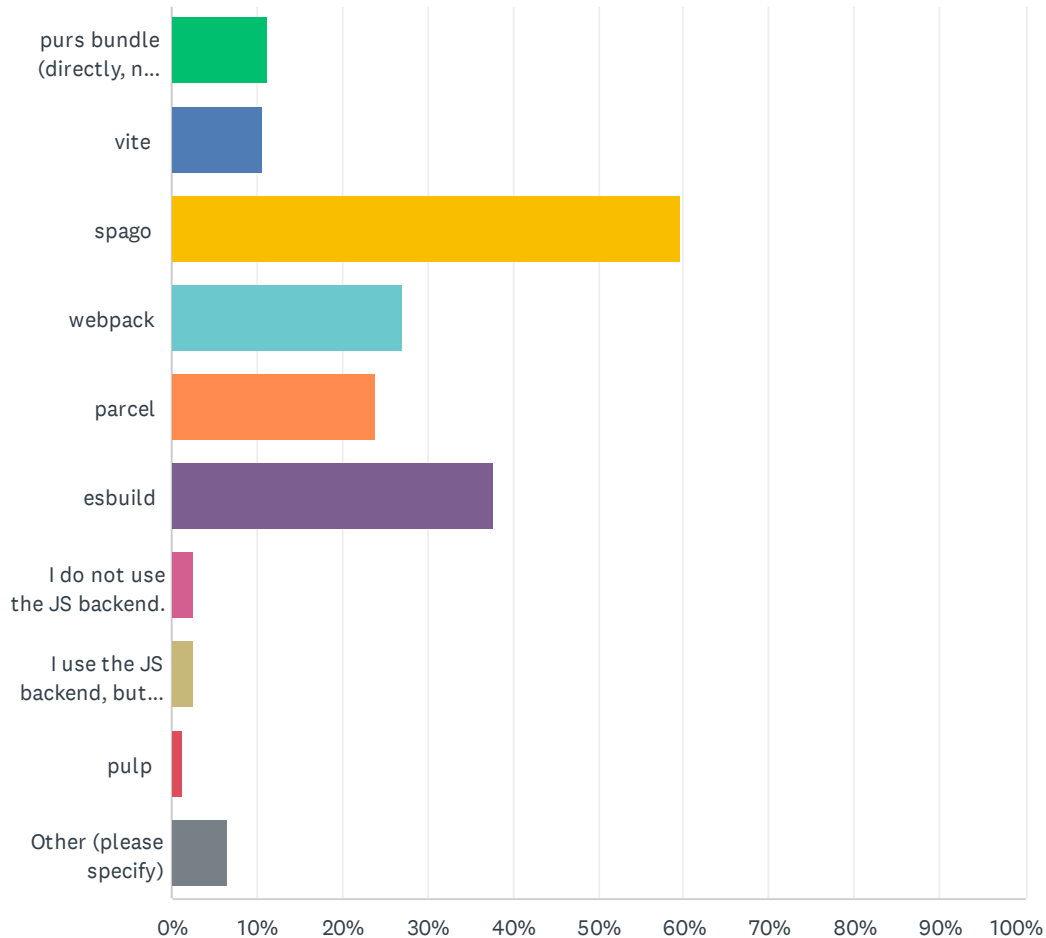
Answered: 112 Skipped: 415



ANSWER CHOICES	RESPONSES	
jest	6.25%	7
mocha	4.46%	5
spec	50.89%	57
benchotron	3.57%	4
test-unit	17.86%	20
quickcheck	50.00%	56
assert	16.07%	18
Other (please specify)	15.18%	17
Total Respondents: 112		

Q20 What tools do you use for bundling code generated by the PureScript JS backend?

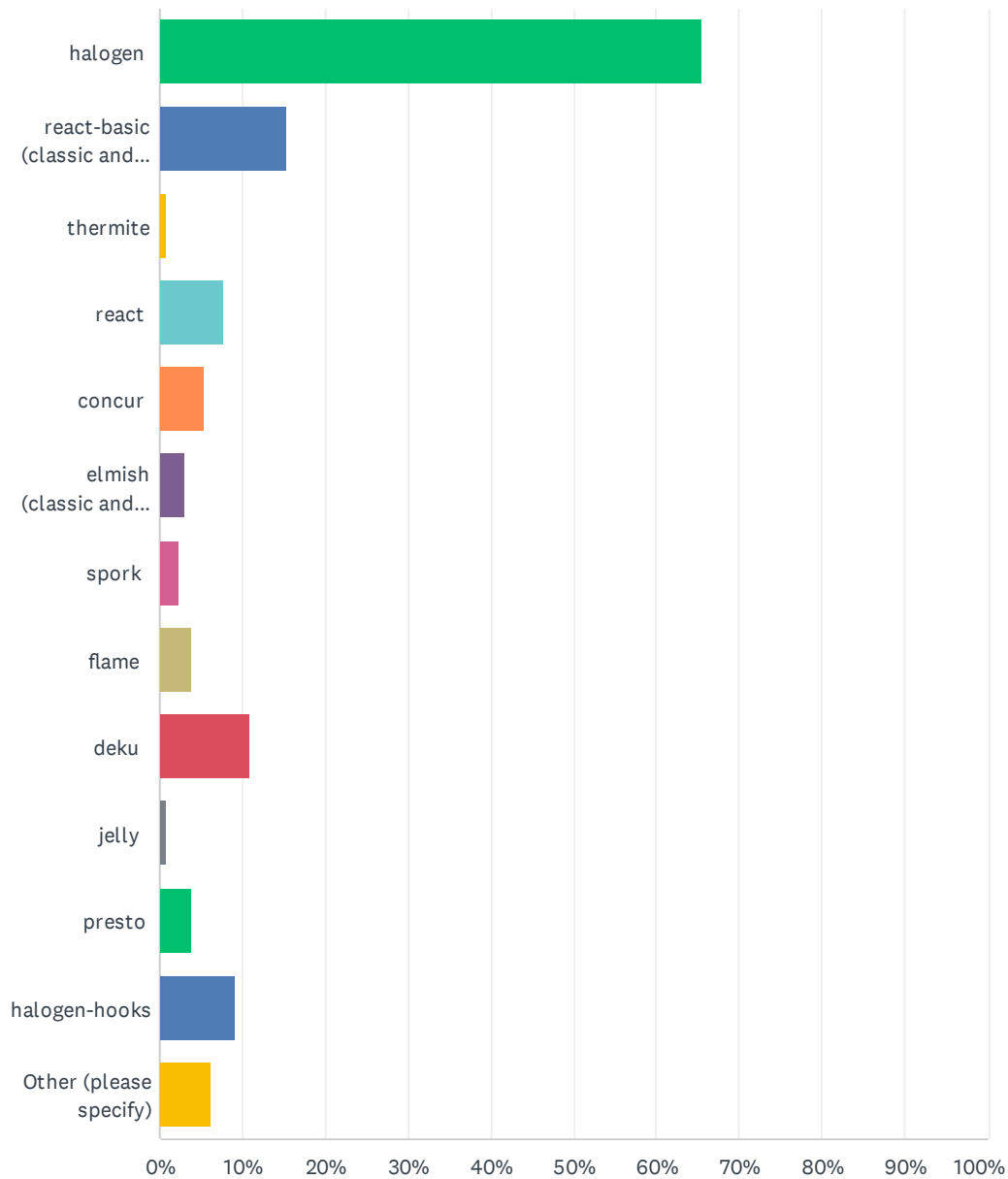
Answered: 151 Skipped: 376



ANSWER CHOICES	RESPONSES	
purs bundle (directly, not via other tooling)	11.26%	17
vite	10.60%	16
spago	59.60%	90
webpack	27.15%	41
parcel	23.84%	36
esbuild	37.75%	57
I do not use the JS backend.	2.65%	4
I use the JS backend, but I do not use a bundler.	2.65%	4
pulp	1.32%	2
Other (please specify)	6.62%	10
Total Respondents: 151		

Q21 What PureScript frontend frameworks do you regularly use?

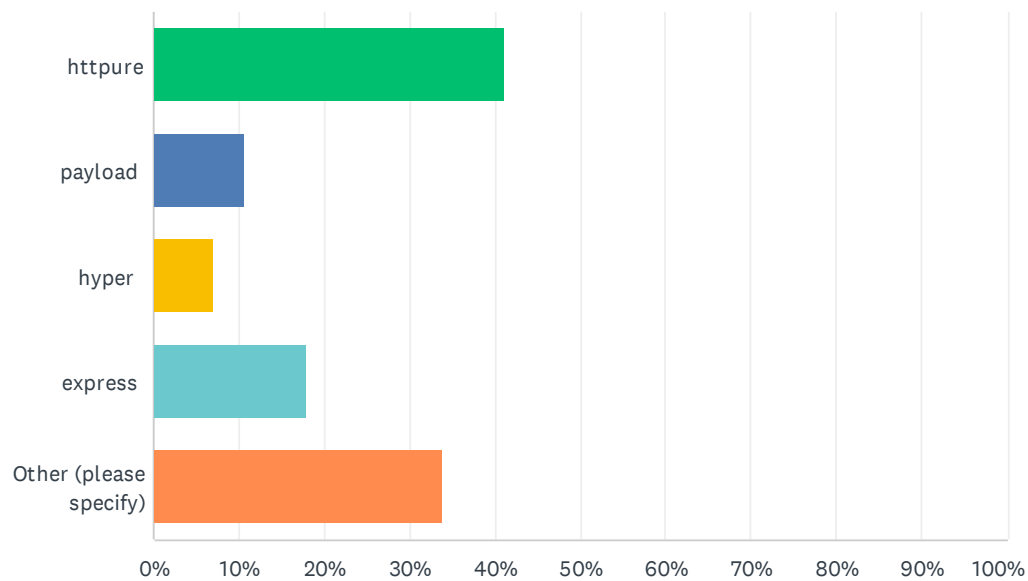
Answered: 130 Skipped: 397



ANSWER CHOICES	RESPONSES	
halogen	65.38%	85
react-basic (classic and/or hooks)	15.38%	20
thermite	0.77%	1
react	7.69%	10
concur	5.38%	7
elmish (classic and/or hooks)	3.08%	4
spork	2.31%	3
flame	3.85%	5
deku	10.77%	14
jelly	0.77%	1
presto	3.85%	5
halogen-hooks	9.23%	12
Other (please specify)	6.15%	8
Total Respondents: 130		

Q22 What PureScript backend frameworks do you regularly use?

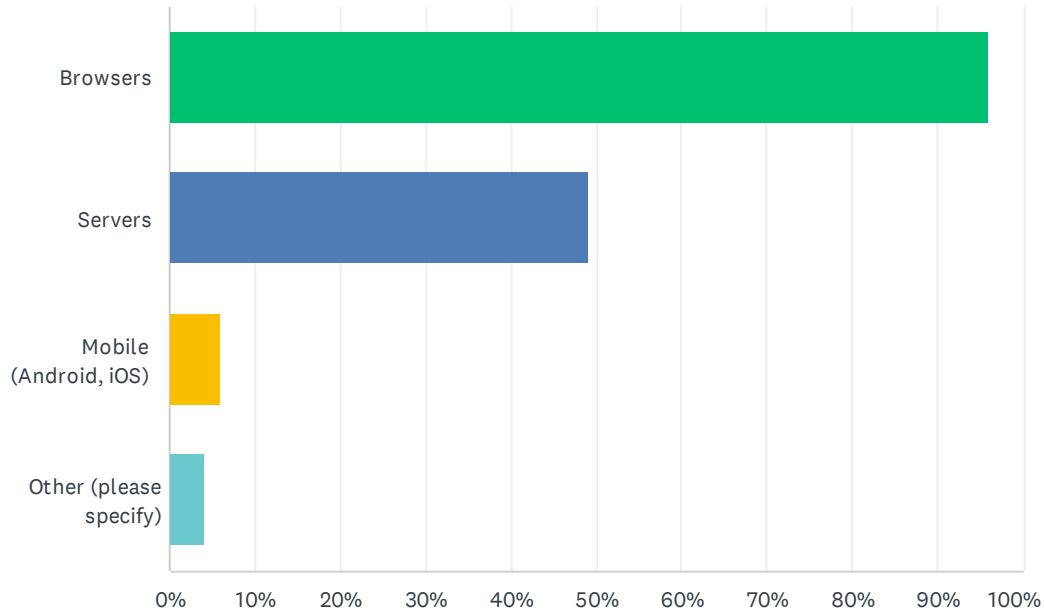
Answered: 56 Skipped: 471



ANSWER CHOICES	RESPONSES	
httpure	41.07%	23
payload	10.71%	6
hyper	7.14%	4
express	17.86%	10
Other (please specify)	33.93%	19
Total Respondents: 56		

Q24 Which platforms or environments do you develop PureScript software for?

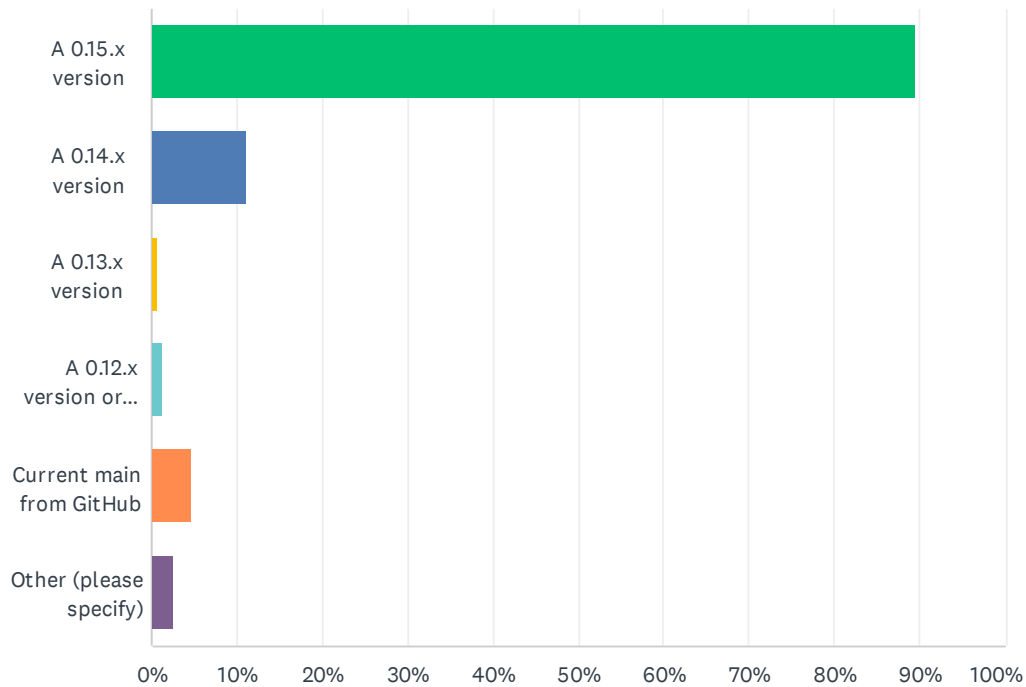
Answered: 149 Skipped: 378



ANSWER CHOICES	RESPONSES	
Browsers	95.97%	143
Servers	48.99%	73
Mobile (Android, iOS)	6.04%	9
Other (please specify)	4.03%	6
Total Respondents: 149		

Q25 Which version(s) of PureScript do you use for local development?

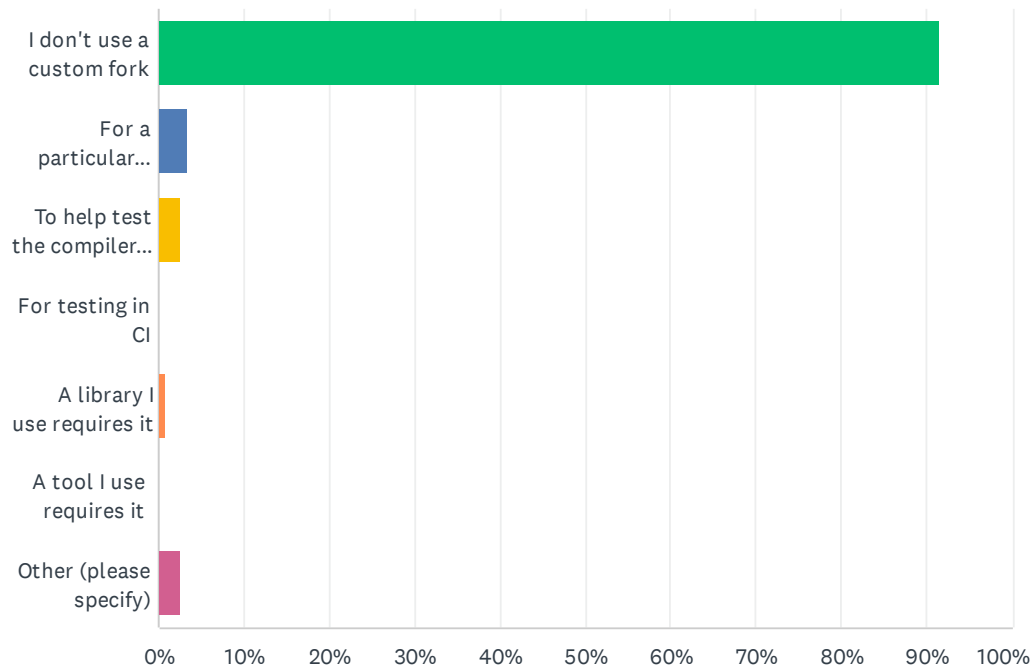
Answered: 152 Skipped: 375



ANSWER CHOICES	RESPONSES	
A 0.15.x version	89.47%	136
A 0.14.x version	11.18%	17
A 0.13.x version	0.66%	1
A 0.12.x version or older	1.32%	2
Current main from GitHub	4.61%	7
Other (please specify)	2.63%	4
Total Respondents: 152		

Q26 If you use a fork of the compiler, why?

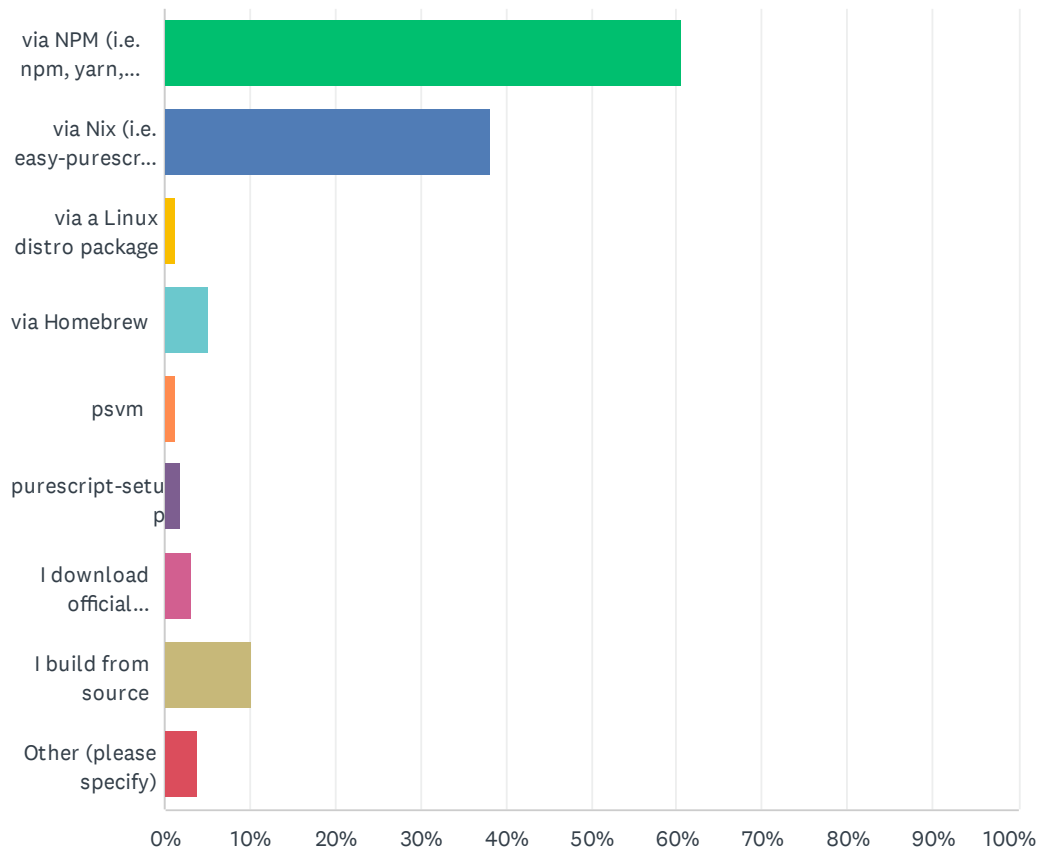
Answered: 117 Skipped: 410



ANSWER CHOICES	RESPONSES	
I don't use a custom fork	91.45%	107
For a particular language feature or set of language features I need	3.42%	4
To help test the compiler and report bugs	2.56%	3
For testing in CI	0.00%	0
A library I use requires it	0.85%	1
A tool I use requires it	0.00%	0
Other (please specify)	2.56%	3
Total Respondents: 117		

Q27 In which ways do you install PureScript?

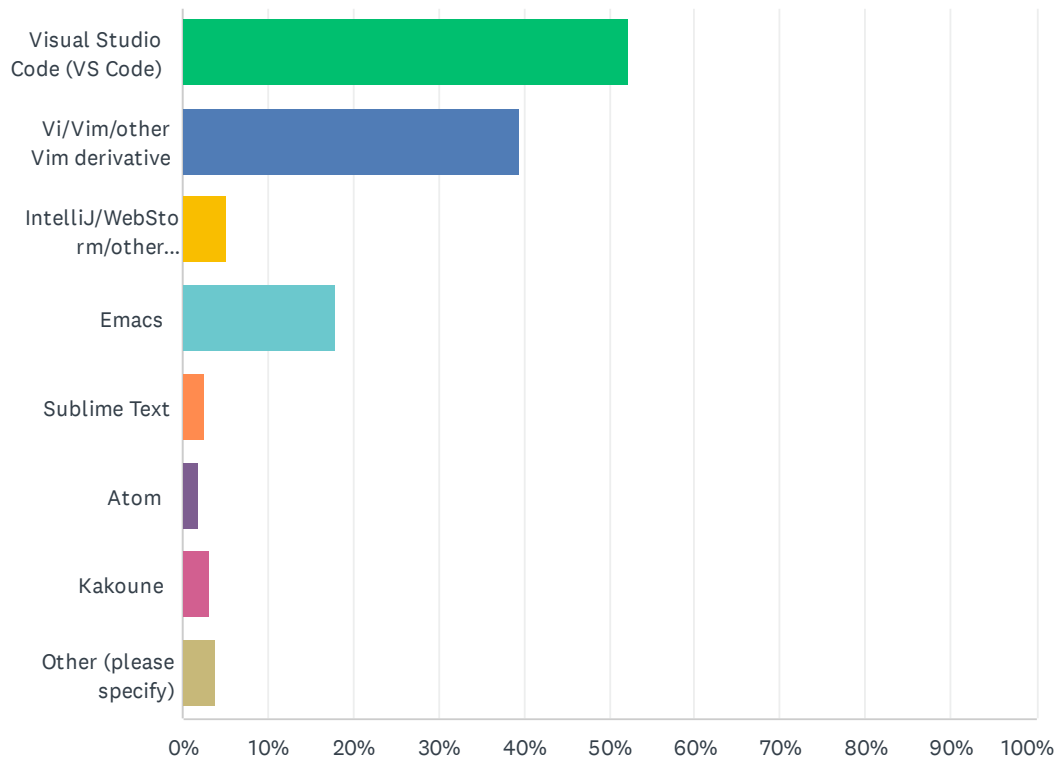
Answered: 155 Skipped: 372



ANSWER CHOICES	RESPONSES	
via NPM (i.e. npm, yarn, pnpm)	60.65%	94
via Nix (i.e. easy-purescript-nix, purs-nix)	38.06%	59
via a Linux distro package	1.29%	2
via Homebrew	5.16%	8
psvm	1.29%	2
purescript-setup	1.94%	3
I download official tarballs from GitHub	3.23%	5
I build from source	10.32%	16
Other (please specify)	3.87%	6
Total Respondents: 155		

Q28 Which editor or IDE setup do you use with PureScript code on a regular basis?

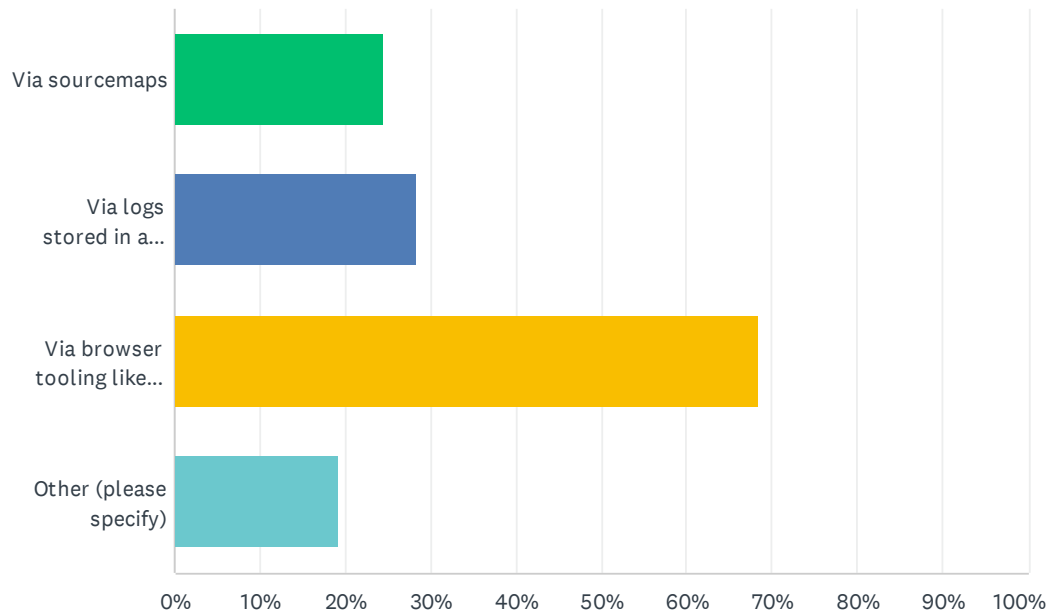
Answered: 157 Skipped: 370



ANSWER CHOICES	RESPONSES	
Visual Studio Code (VS Code)	52.23%	82
Vi/Vim/other Vim derivative	39.49%	62
IntelliJ/WebStorm/other JetBrains IDE	5.10%	8
Emacs	17.83%	28
Sublime Text	2.55%	4
Atom	1.91%	3
Kakoune	3.18%	5
Other (please specify)	3.82%	6
Total Respondents: 157		

Q29 How do you debug PureScript programs?

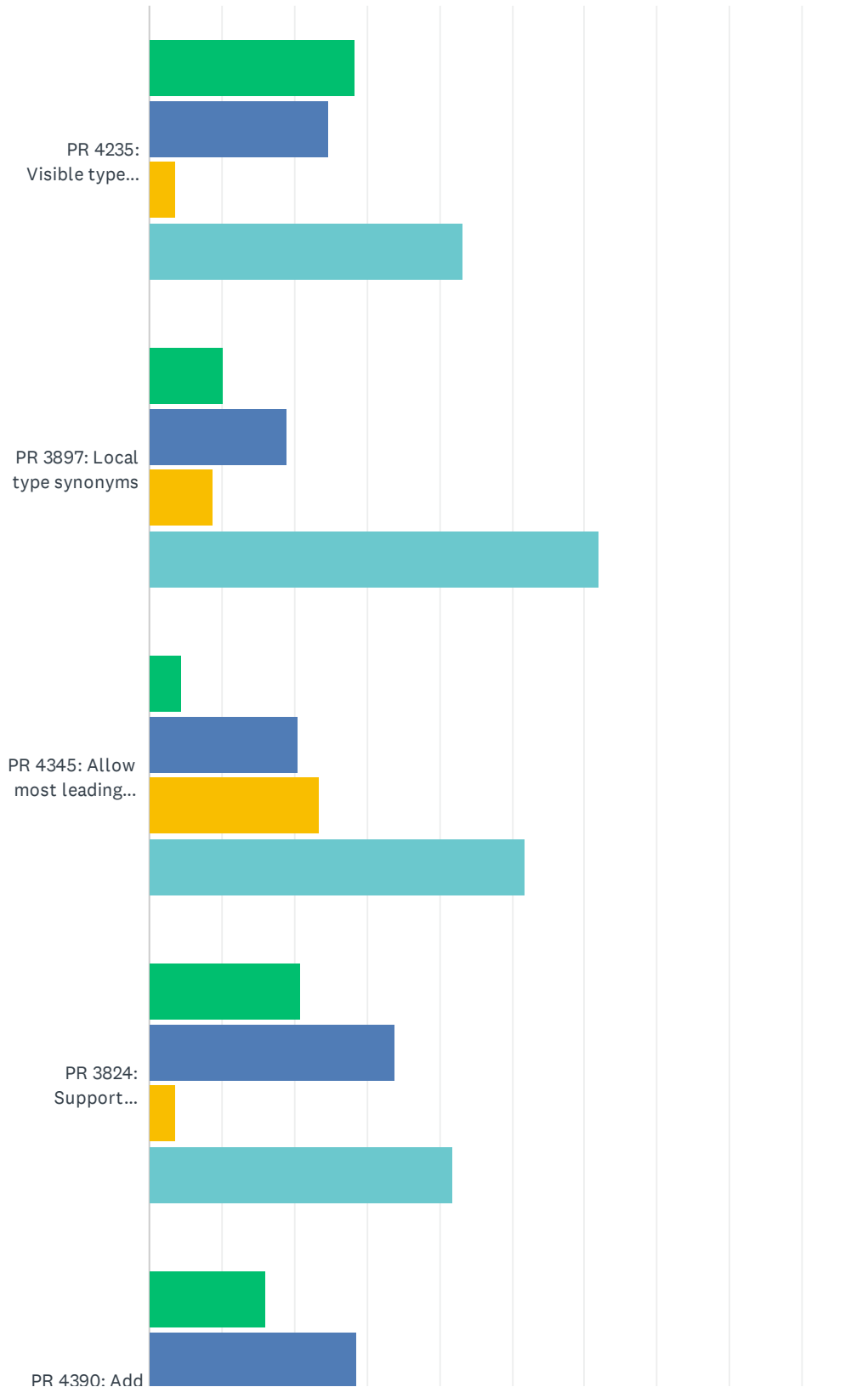
Answered: 130 Skipped: 397

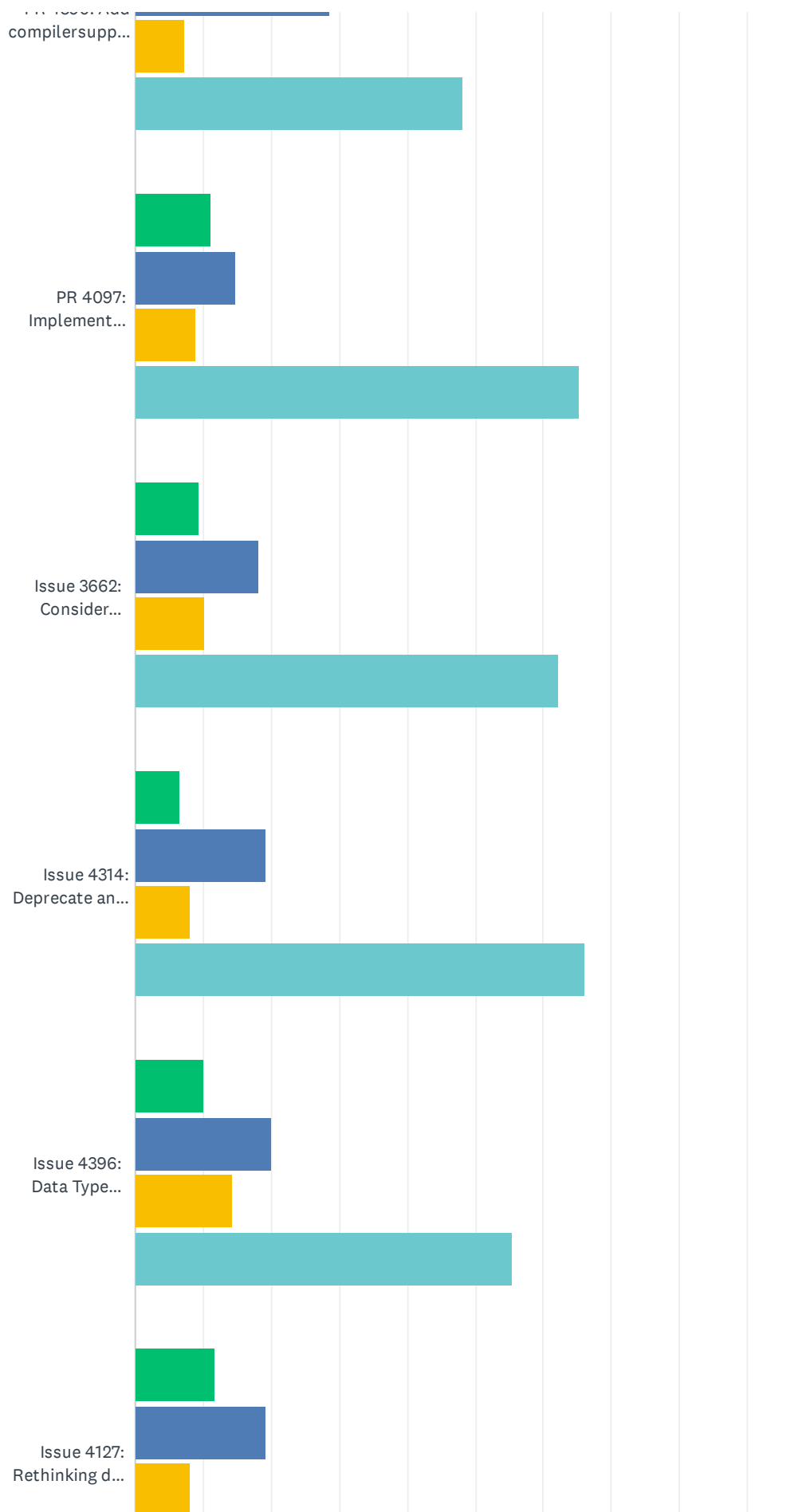


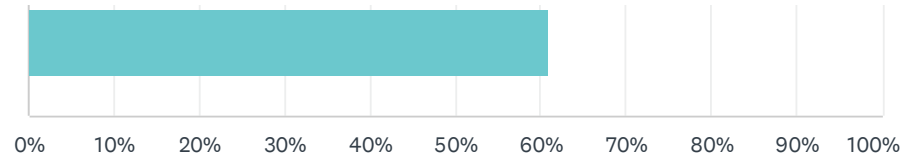
ANSWER CHOICES	RESPONSES	
Via sourcemaps	24.62%	32
Via logs stored in a backend for review later on	28.46%	37
Via browser tooling like Chrome or Firefox dev tools (not including sourcemaps)	68.46%	89
Other (please specify)	19.23%	25
Total Respondents: 130		

Q30 In your opinion, how important are the following pull requests and issues having to do with language changes?

Answered: 144 Skipped: 383





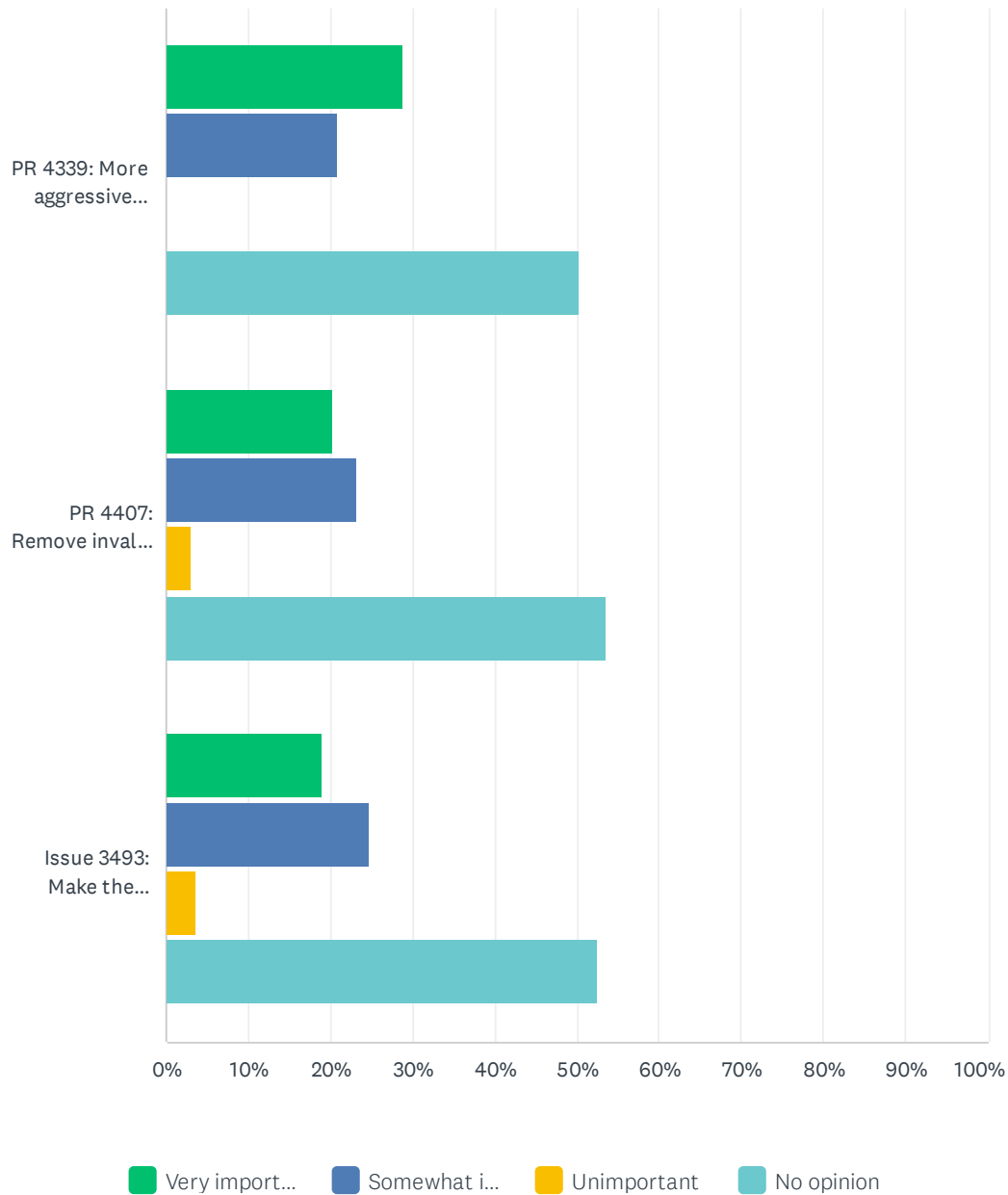


■ Very import...
 ■ Somewhat i...
 ■ Unimportant
 ■ No opinion

	VERY IMPORTANT	SOMEWHAT IMPORTANT	UNIMPORTANT	NO OPINION	TOTAL	WEIGHTED AVERAGE
PR 4235: Visible type applications	28.37% 40	24.82% 35	3.55% 5	43.26% 61	141	2.33
PR 3897: Local type synonyms	10.22% 14	18.98% 26	8.76% 12	62.04% 85	137	3.12
PR 4345: Allow most leading and trailing delimiters	4.38% 6	20.44% 28	23.36% 32	51.82% 71	137	3.18
PR 3824: Support deriving via	20.86% 29	33.81% 47	3.60% 5	41.73% 58	139	2.45
PR 4390: Add compiler support for deriving Debug type class	16.06% 22	28.47% 39	7.30% 10	48.18% 66	137	2.72
PR 4097: Implement Typeable	11.11% 15	14.81% 20	8.89% 12	65.19% 88	135	3.17
Issue 3662: Consider changing Char to represent a code point rather than a UTF16 code unit	9.42% 13	18.12% 25	10.14% 14	62.32% 86	138	3.16
Issue 4314: Deprecate and eventually remove IsSymbol in favor of the Reflectable type class	6.62% 9	19.12% 26	8.09% 11	66.18% 90	136	3.27
Issue 4396: Data Type Qualification	10.07% 14	20.14% 28	14.39% 20	55.40% 77	139	3.05
Issue 4127: Rethinking data kinds and foreign import data	11.76% 16	19.12% 26	8.09% 11	61.03% 83	136	3.07

Q31 In your opinion, how important are the following pull requests and issues having to do with compilation?

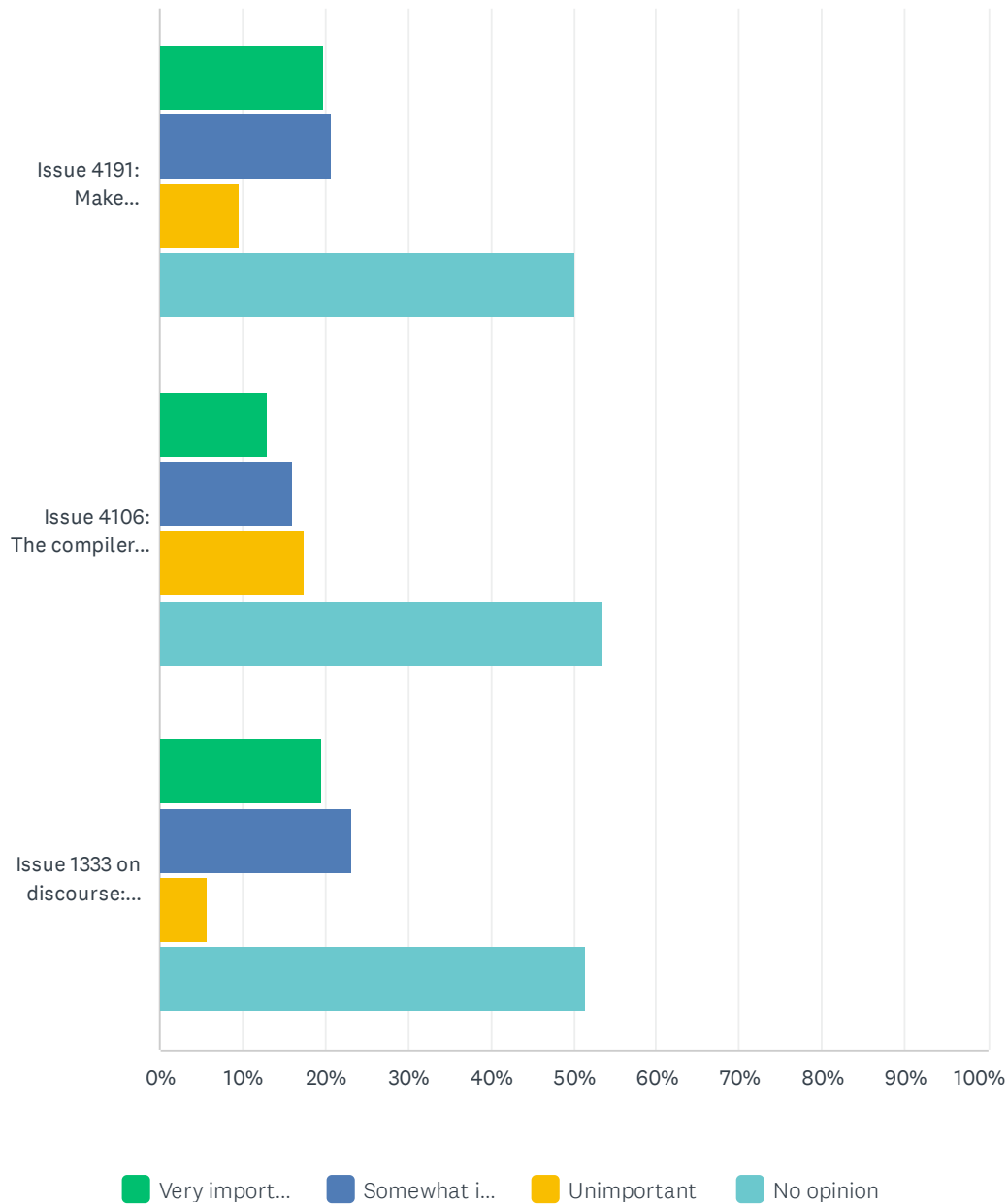
Answered: 140 Skipped: 387



	VERY IMPORTANT	SOMEWHAT IMPORTANT	UNIMPORTANT	NO OPINION	TOTAL	WEIGHTED AVERAGE
PR 4339: More aggressive dirty module checking	28.78% 40	20.86% 29	0.00% 0	50.36% 70	139	2.43
PR 4407: Remove invalid entries from cachedb	20.29% 28	23.19% 32	2.90% 4	53.62% 74	138	2.70
Issue 3493: Make the compiler package aware	18.98% 26	24.82% 34	3.65% 5	52.55% 72	137	2.71

Q32 In your opinion, how important are the following pull requests and issues having to do with installation and usage?

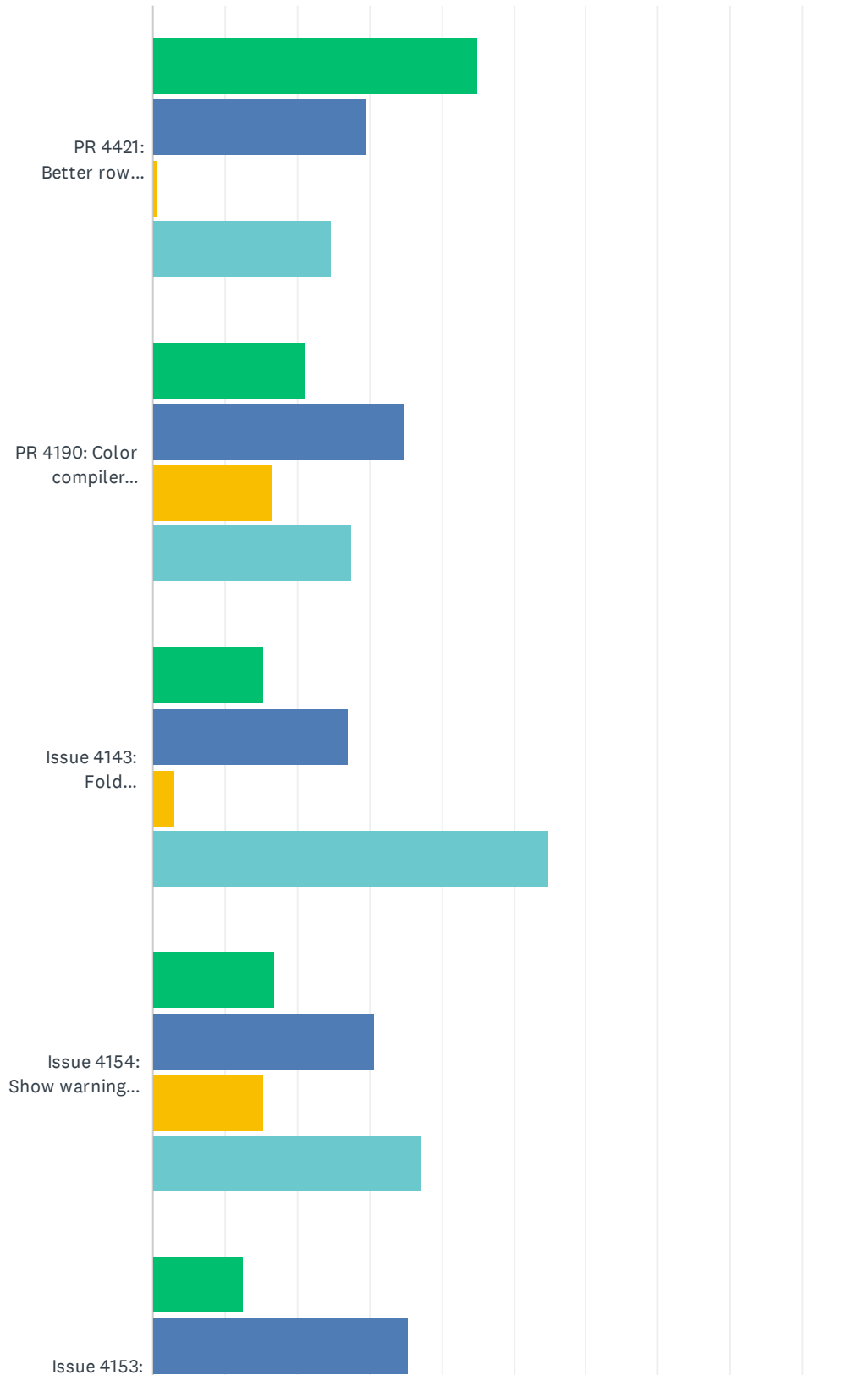
Answered: 139 Skipped: 388

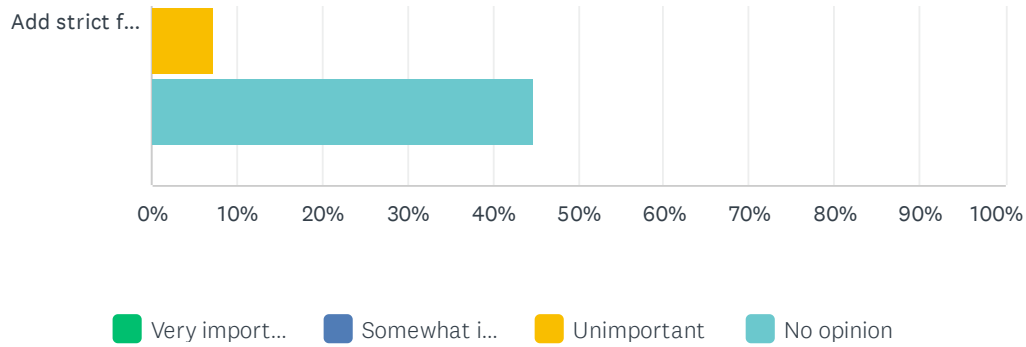


	VERY IMPORTANT	SOMEWHAT IMPORTANT	UNIMPORTANT	NO OPINION	TOTAL	WEIGHTED AVERAGE
Issue 4191: Make installation/deployment easier on non-Ubuntu Linux environments	19.85% 27	20.59% 28	9.56% 13	50.00% 68	136	2.90
Issue 4106: The compiler integrates the repl runtime environment by default	13.04% 18	15.94% 22	17.39% 24	53.62% 74	138	3.12
Issue 1333 on discourse: Collaborating on improving the REPL evaluator	19.57% 27	23.19% 32	5.80% 8	51.45% 71	138	2.89

Q33 In your opinion, how important are the following pull requests and issues having to do with compiler error reporting?

Answered: 139 Skipped: 388

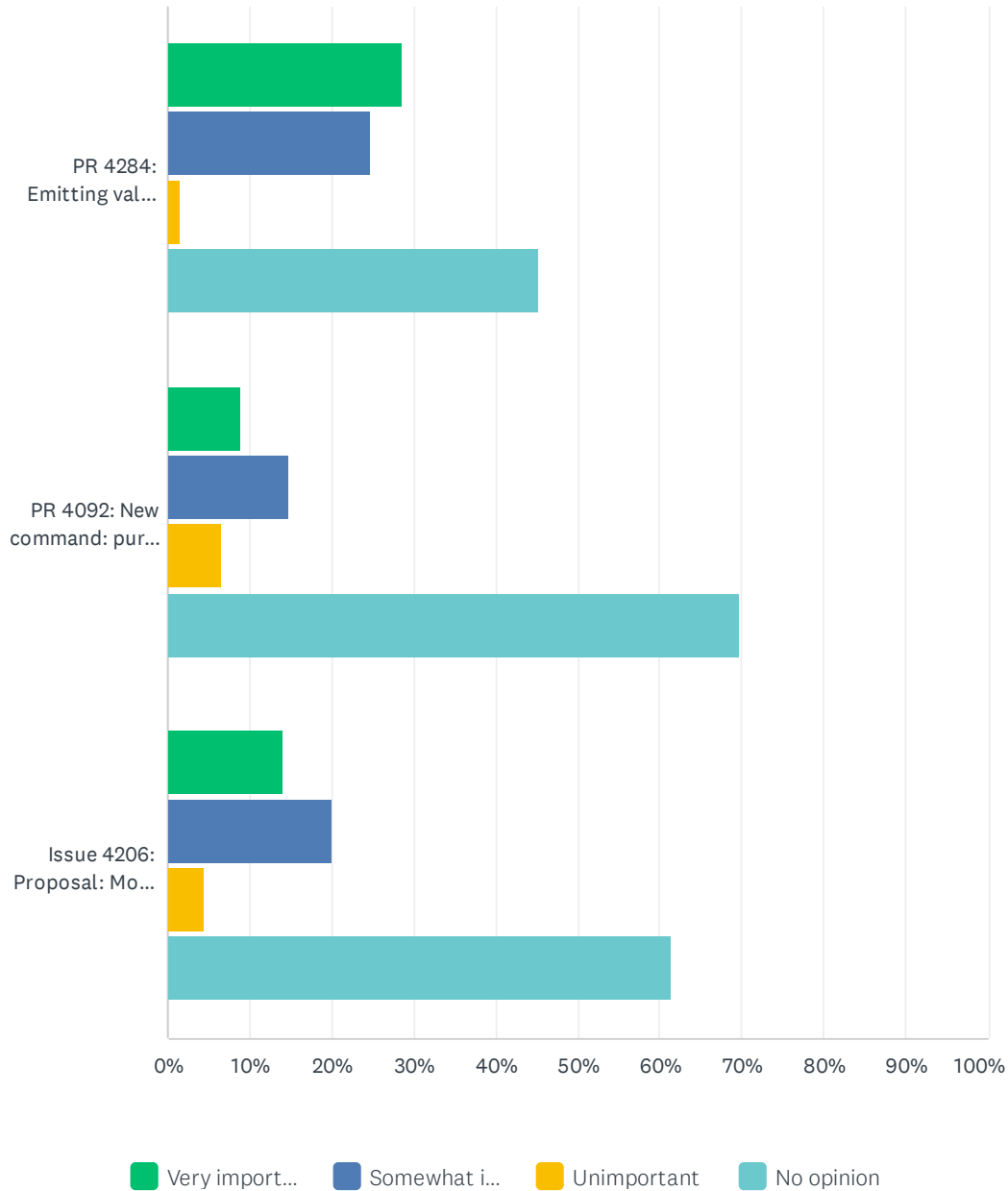




	VERY IMPORTANT	SOMEWHAT IMPORTANT	UNIMPORTANT	NO OPINION	TOTAL	WEIGHTED AVERAGE
PR 4421: Better row unification error messages	44.93% 62	29.71% 41	0.72% 1	24.64% 34	138	2.05
PR 4190: Color compiler warnings and errors	21.01% 29	34.78% 48	16.67% 23	27.54% 38	138	2.51
Issue 4143: Fold purescriptpsa into purs compile	15.33% 21	27.01% 37	2.92% 4	54.74% 75	137	2.97
Issue 4154: Show warning and error statistics at the end of compilations	16.79% 23	30.66% 42	15.33% 21	37.23% 51	137	2.73
Issue 4153: Add strict flag to promote src/ warnings into errors (NOTE: PR 4156, blocked on Issue 3493)	12.50% 17	35.29% 48	7.35% 10	44.85% 61	136	2.85

Q34 In your opinion, how important are the following pull requests and issues having to do with code generation?

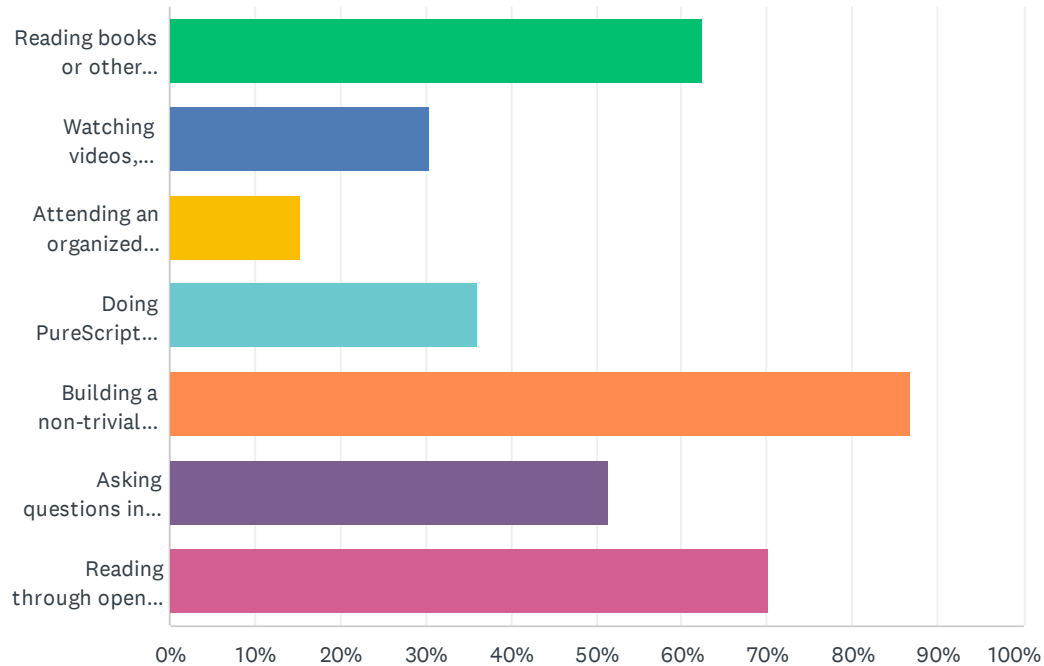
Answered: 135 Skipped: 392



	VERY IMPORTANT	SOMEWHAT IMPORTANT	UNIMPORTANT	NO OPINION	TOTAL	WEIGHTED AVERAGE
PR 4284: Emitting value and type information for IDE/IDElike consumers	28.57% 38	24.81% 33	1.50% 2	45.11% 60	133	2.59
PR 4092: New command: purs codegen	8.89% 12	14.81% 20	6.67% 9	69.63% 94	135	3.17
Issue 4206: Proposal: Move nonJSspecific optimizations to the CoreFn optimization pass	14.07% 19	20.00% 27	4.44% 6	61.48% 83	135	3.00

Q36 Which of the following activities do you find helpful or effective for learning PureScript or improving your PureScript skills?

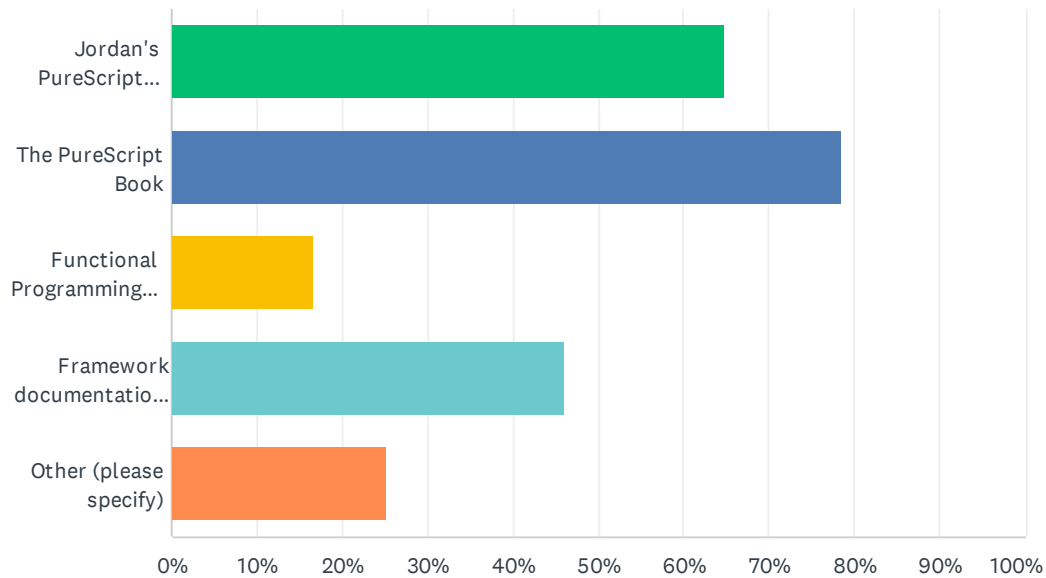
Answered: 144 Skipped: 383



ANSWER CHOICES	RESPONSES	
Reading books or other written material geared towards learning PureScript	62.50%	90
Watching videos, streams, etc. geared towards learning PureScript	30.56%	44
Attending an organized training session or course (in person or virtual)	15.28%	22
Doing PureScript coding exercises or challenges created to help learn PureScript	36.11%	52
Building a non-trivial project in PureScript or contributing to an open source project	86.81%	125
Asking questions in PureScript community channels (Discord, Discourse)	51.39%	74
Reading through open source PureScript libraries or applications	70.14%	101
Total Respondents: 144		

Q37 Which learning resources did you use when learning PureScript?

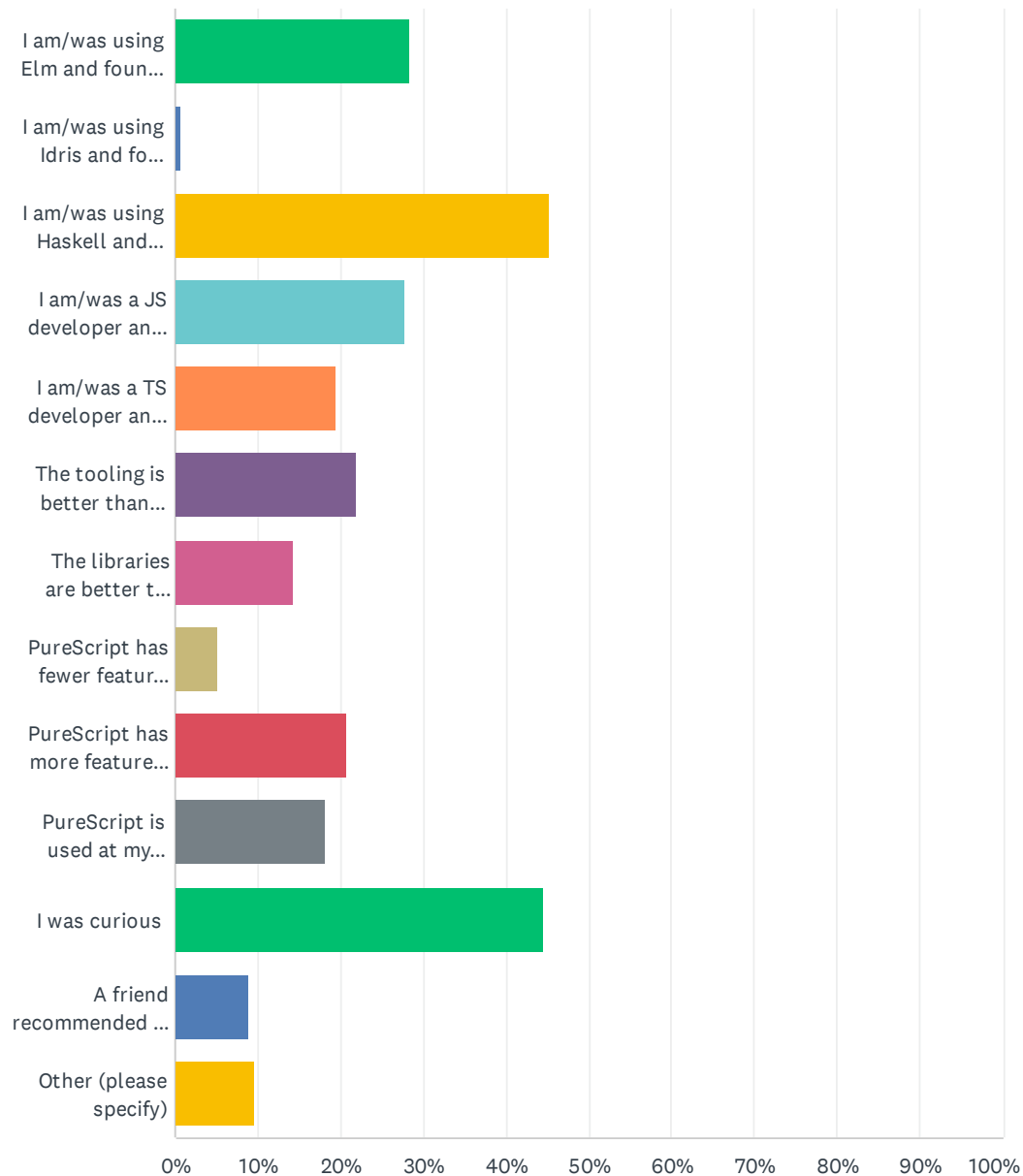
Answered: 139 Skipped: 388



ANSWER CHOICES	RESPONSES	
Jordan's PureScript Reference	64.75%	90
The PureScript Book	78.42%	109
Functional Programming Made Easier	16.55%	23
Framework documentation like the Halogen Guide	46.04%	64
Other (please specify)	25.18%	35
Total Respondents: 139		

Q38 Why did you first start using PureScript?

Answered: 155 Skipped: 372



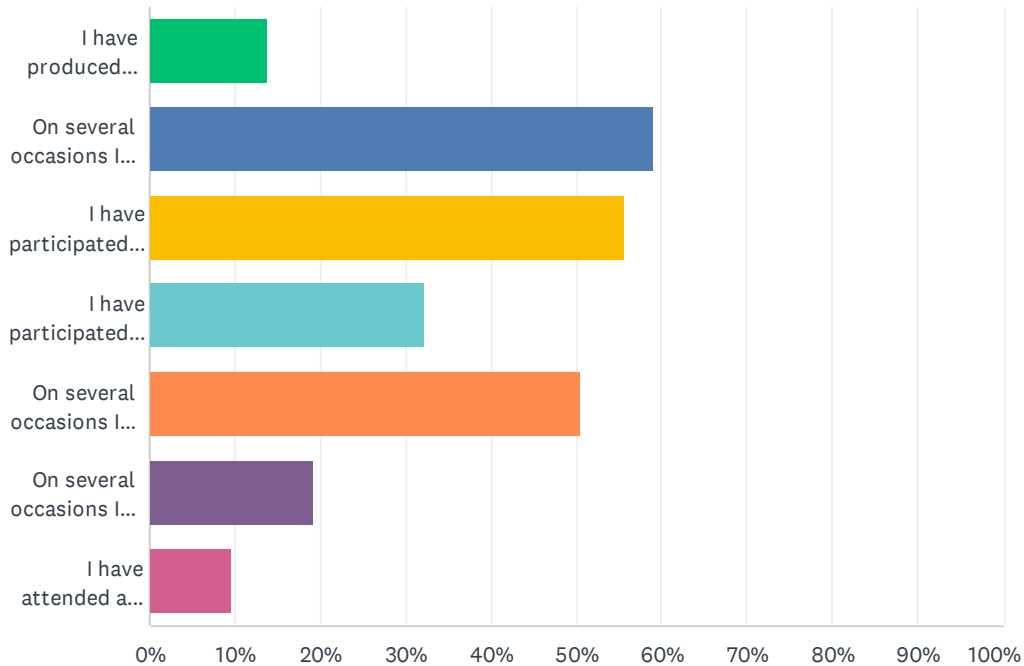
ANSWER CHOICES	RESPONSES	
I am/was using Elm and found PureScript a better option for my use case	28.39%	44
I am/was using Idris and found PureScript a better option for my use case	0.65%	1
I am/was using Haskell and found PureScript a better option for my use case	45.16%	70
I am/was a JS developer and found PureScript a better option for my use case	27.74%	43
I am/was a TS developer and found PureScript a better option for my use case	19.35%	30
The tooling is better than other FP or compile-to-JS languages	21.94%	34
The libraries are better than other FP or compile-to-JS languages	14.19%	22
PureScript has fewer features than other similar languages	5.16%	8
PureScript has more features than other similar languages	20.65%	32
PureScript is used at my workplace, so I had to learn it	18.06%	28
I was curious	44.52%	69
A friend recommended it to me	9.03%	14
Other (please specify)	9.68%	15
Total Respondents: 155		

Section 3

The PureScript Community

Q39 In which of the following ways have you participated in the PureScript community in the last 6 months?

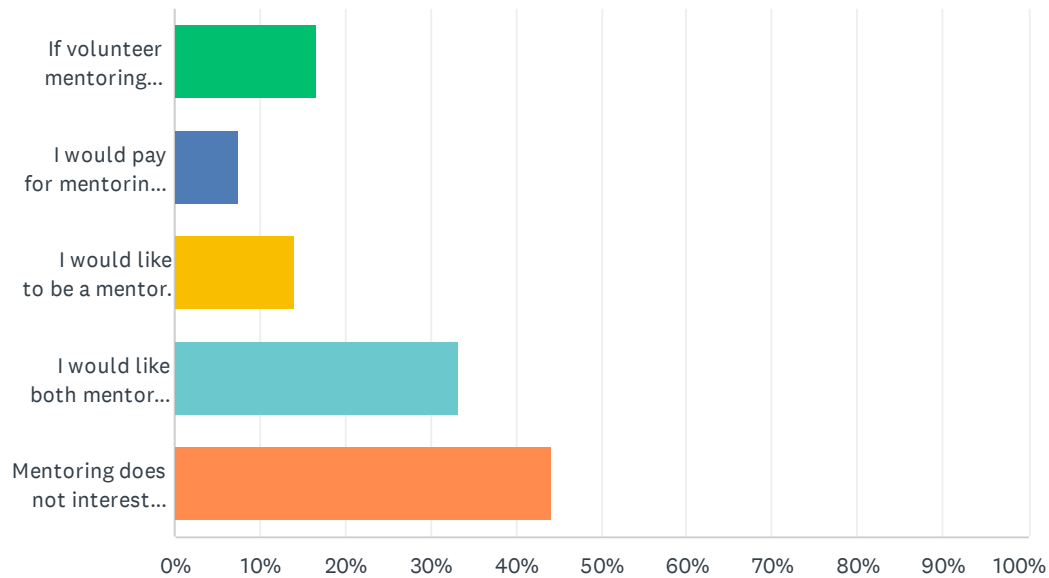
Answered: 115 Skipped: 412



ANSWER CHOICES	RESPONSES	
I have produced informational content about PureScript (e.g., blogged, live streamed, made a YouTube video, presented at a conference/meetup, etc.)	13.91%	16
On several occasions I have consumed informational content about PureScript (e.g., blogs, live streams, YouTube videos, etc.)	59.13%	68
I have participated in conversations on the PureScript Discord.	55.65%	64
I have participated in conversations on the PureScript Discourse.	32.17%	37
On several occasions I have read comments about PureScript content on news sites (e.g., Hacker News, reddit.com/r/purescript, lobste.rs/t/purescript, etc.).	50.43%	58
On several occasions I have participated in conversations about PureScript on social media (Twitter, etc.).	19.13%	22
I have attended a PureScript meetup or conference (virtual or in-person).	9.57%	11
Total Respondents: 115		

Q40 How do you feel about mentoring in the PureScript community?

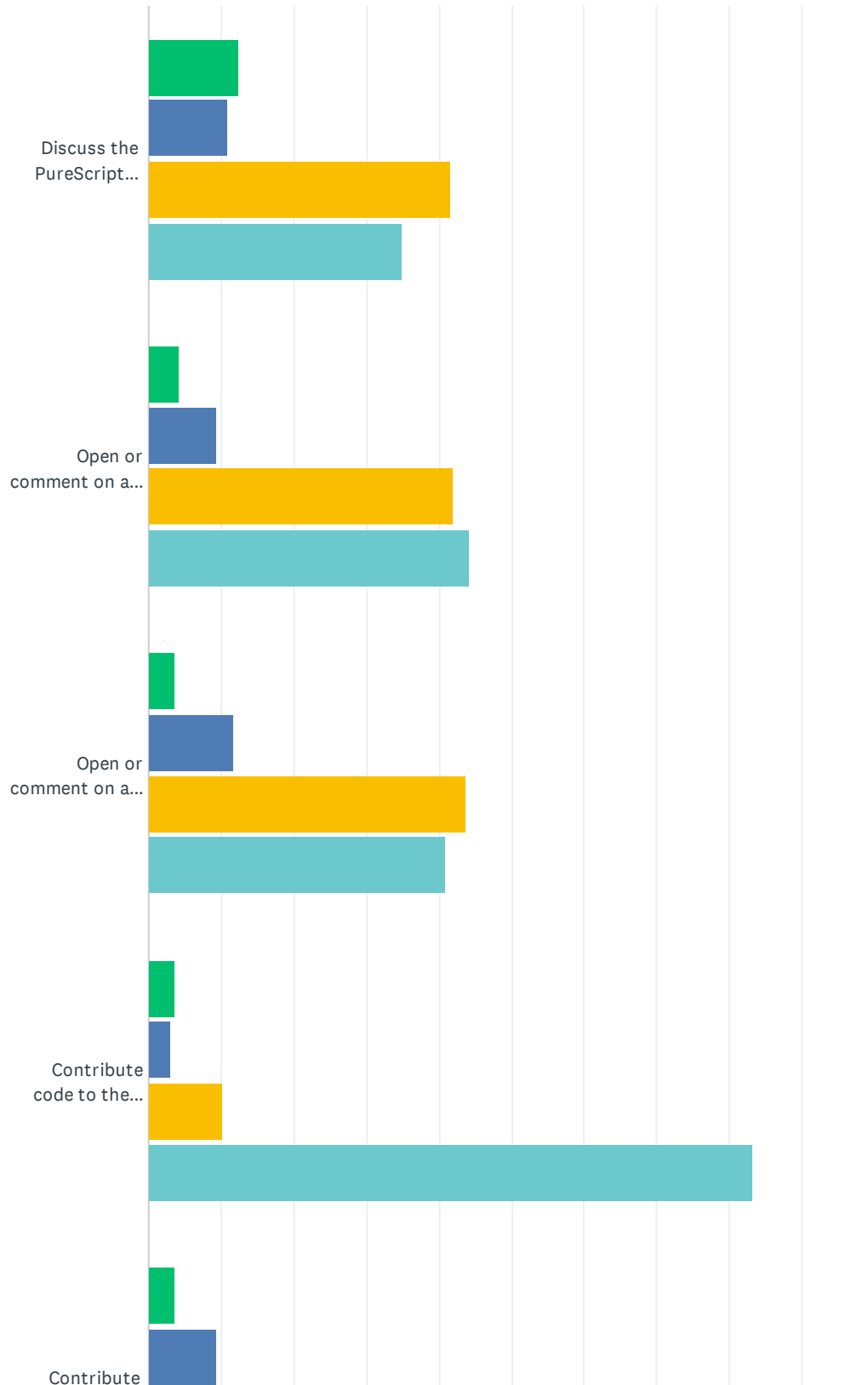
Answered: 120 Skipped: 407

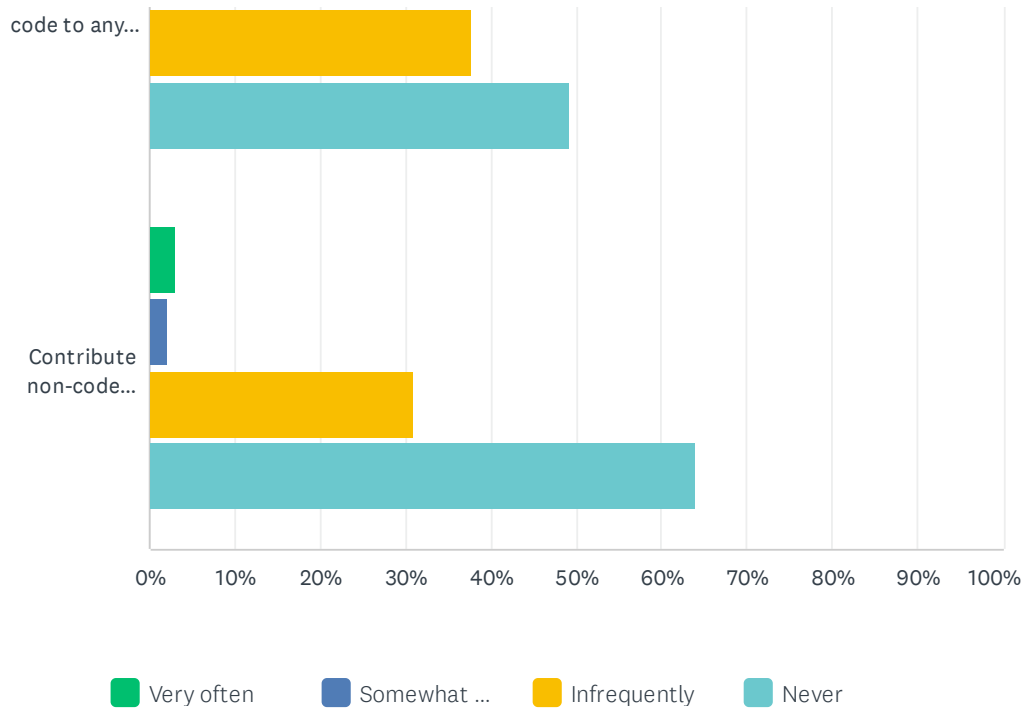


ANSWER CHOICES	RESPONSES	
If volunteer mentoring existed, I would use it, but I would not pay for mentoring.	16.67%	20
I would pay for mentoring if it existed.	7.50%	9
I would like to be a mentor.	14.17%	17
I would like both mentor others and be mentored.	33.33%	40
Mentoring does not interest me.	44.17%	53
Total Respondents: 120		

Q41 Roughly how often do you contribute to PureScript (language, ecosystem, community, etc)?

Answered: 138 Skipped: 389

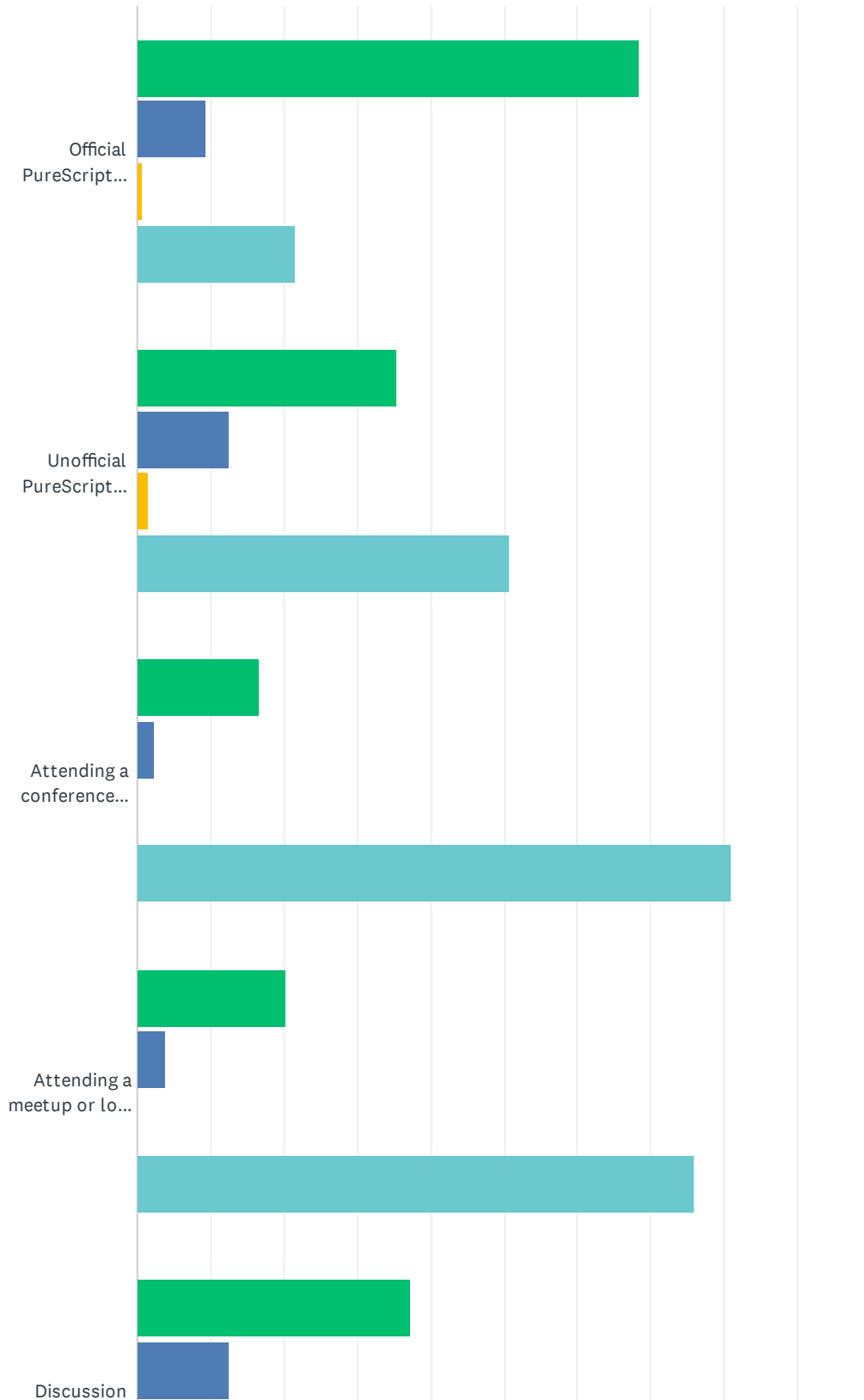


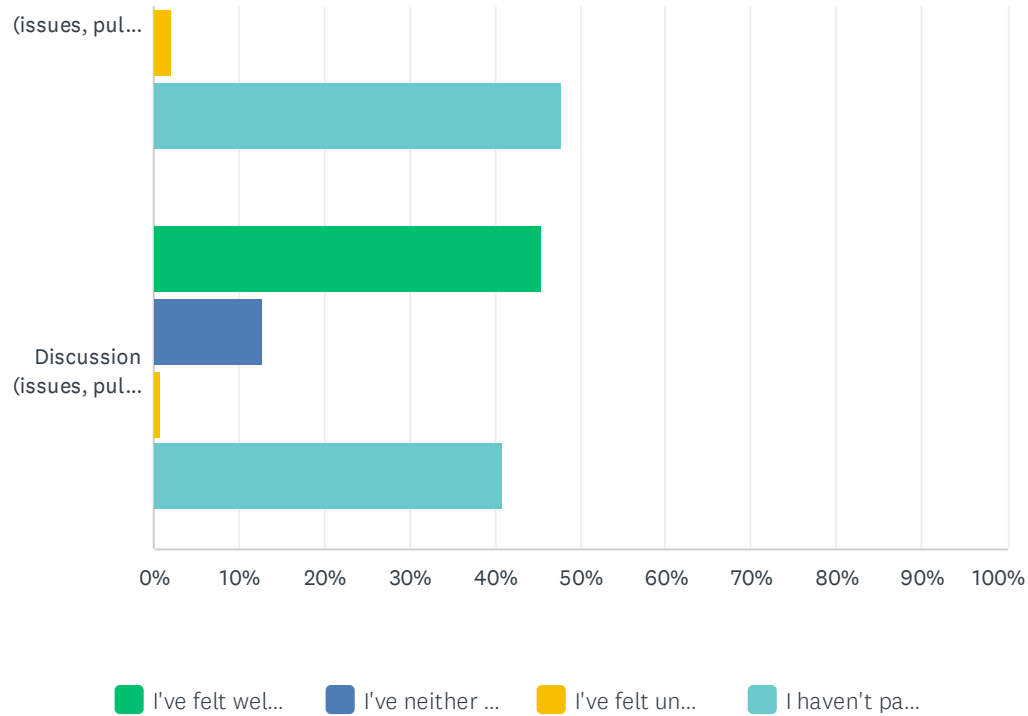


	VERY OFTEN	SOMEWHAT OFTEN	INFREQUENTLY	NEVER	TOTAL	WEIGHTED AVERAGE
Discuss the PureScript project on an official community channel (Discord, Discourse)	12.41% 17	10.95% 15	41.61% 57	35.04% 48	137	2.87
Open or comment on an issue on any repo in the PureScript GitHub organization	4.35% 6	9.42% 13	42.03% 58	44.20% 61	138	3.22
Open or comment on an issue on any repo in another PureScript GitHub organization (web, contrib, node)	3.65% 5	11.68% 16	43.80% 60	40.88% 56	137	3.18
Contribute code to the PureScript compiler (including tests)	3.65% 5	2.92% 4	10.22% 14	83.21% 114	137	3.69
Contribute code to any project other than the compiler in the PureScript organization, including the web, contrib, and node organizations.	3.62% 5	9.42% 13	37.68% 52	49.28% 68	138	3.29
Contribute non-code changes (documentation, etc.) to any project in the PureScript organization, including the web, contrib, and node organizations.	2.94% 4	2.21% 3	30.88% 42	63.97% 87	136	3.53

Q42 How often have you felt explicitly welcome in the PureScript community?

Answered: 139 Skipped: 388

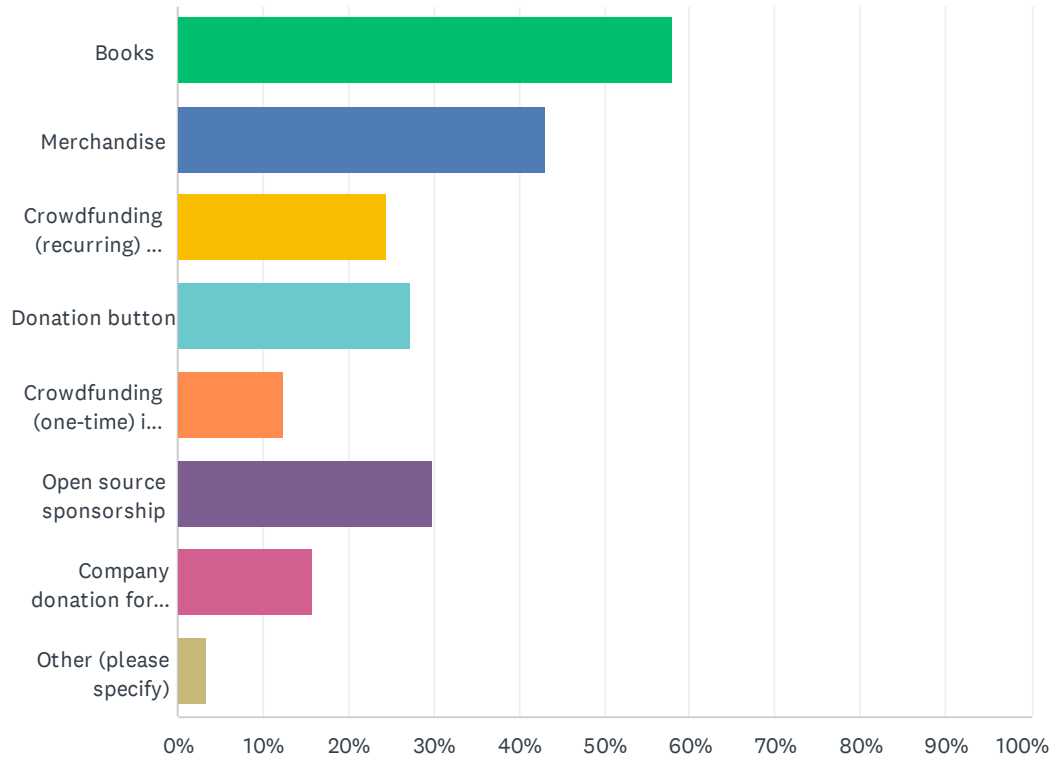




	I'VE FELT WELCOME	I'VE NEITHER FELT WELCOME OR UNWELCOME	I'VE FELT UNWELCOME	I HAVEN'T PARTICIPATED IN THIS	TOTAL	WEIGHTED AVERAGE
Official PureScript community forums or chats (the PureScript Discourse or the PureScript Discord)	68.35% 95	9.35% 13	0.72% 1	21.58% 30	139	1.76
Unofficial PureScript community forums or chats (e.g. reddit.com/r/purescript, Hacker News, the #purescript channel on the FP Slack, etc.)	35.29% 48	12.50% 17	1.47% 2	50.74% 69	136	2.68
Attending a conference where PureScript is discussed or presented	16.67% 22	2.27% 3	0.00% 0	81.06% 107	132	3.45
Attending a meetup or local community event where PureScript is discussed or presented	20.30% 27	3.76% 5	0.00% 0	75.94% 101	133	3.32
Discussion (issues, pull requests, etc.) on a repository inside the PureScript GitHub organization	37.31% 50	12.69% 17	2.24% 3	47.76% 64	134	2.60
Discussion (issues, pull requests, etc.) on a repository outside of the PureScript GitHub organization	45.45% 60	12.88% 17	0.76% 1	40.91% 54	132	2.37

Q44 Through which mechanisms, if any, would you be most likely to contribute funding to the PureScript project?

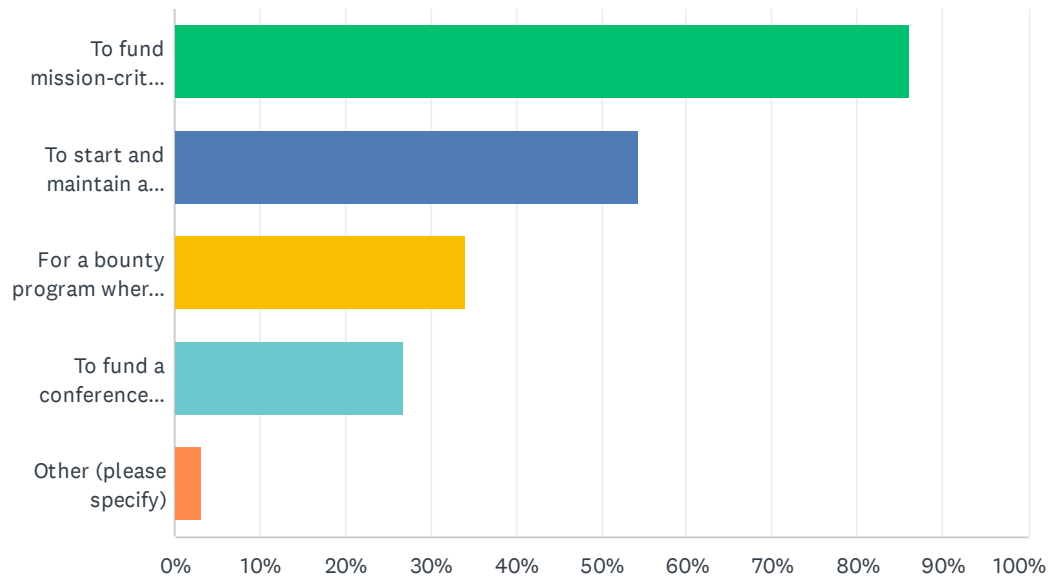
Answered: 114 Skipped: 413



ANSWER CHOICES	RESPONSES	
Books	57.89%	66
Merchandise	42.98%	49
Crowdfunding (recurring) - i.e. Open Collective	24.56%	28
Donation button	27.19%	31
Crowdfunding (one-time) i.e. Kickstarter	12.28%	14
Open source sponsorship	29.82%	34
Company donation for time/moral license	15.79%	18
Other (please specify)	3.51%	4
Total Respondents: 114		

Q45 How should the PureScript project's funding be used?

Answered: 123 Skipped: 404



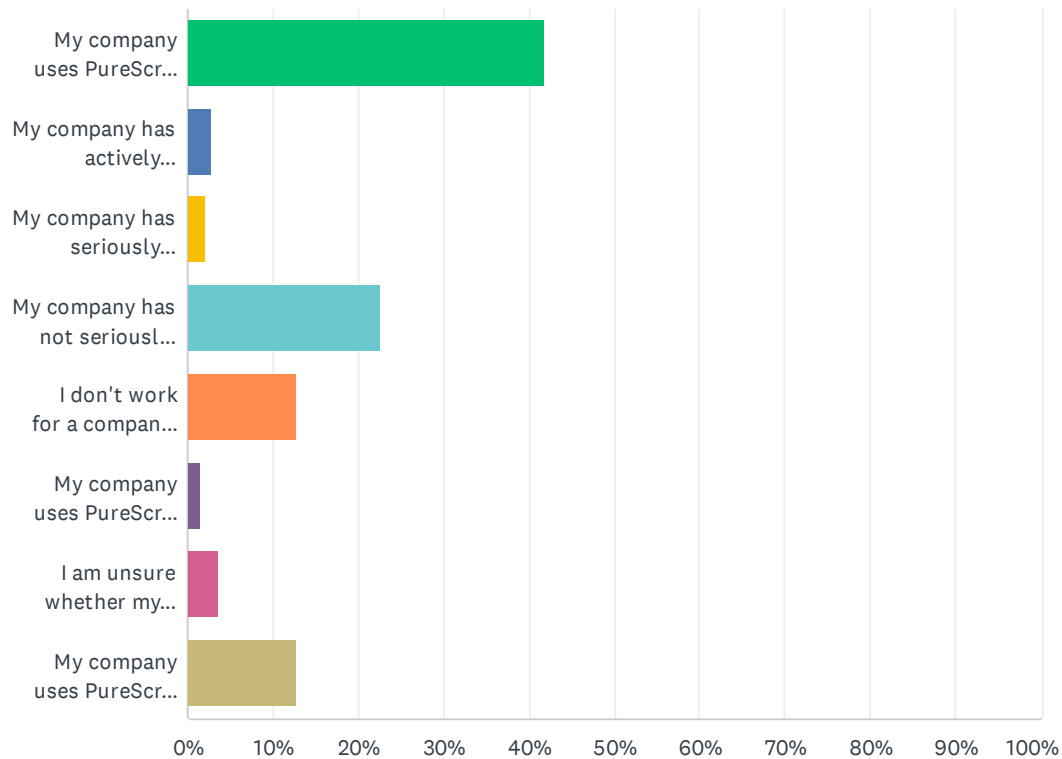
ANSWER CHOICES	RESPONSES	
To fund mission-critical infrastructure like Pursuit and important community endeavors like this survey (this is the status quo)	86.18%	106
To start and maintain a foundation, similar to The Haskell Foundation or The Rust Foundation.	54.47%	67
For a bounty program where the community agrees upon bounty-worthy issues and pays those who complete them.	34.15%	42
To fund a conference and/or meetups.	26.83%	33
Other (please specify)	3.25%	4
Total Respondents: 123		

Section 4

PureScript at Work

Q46 To what extent is PureScript currently being used by your company?

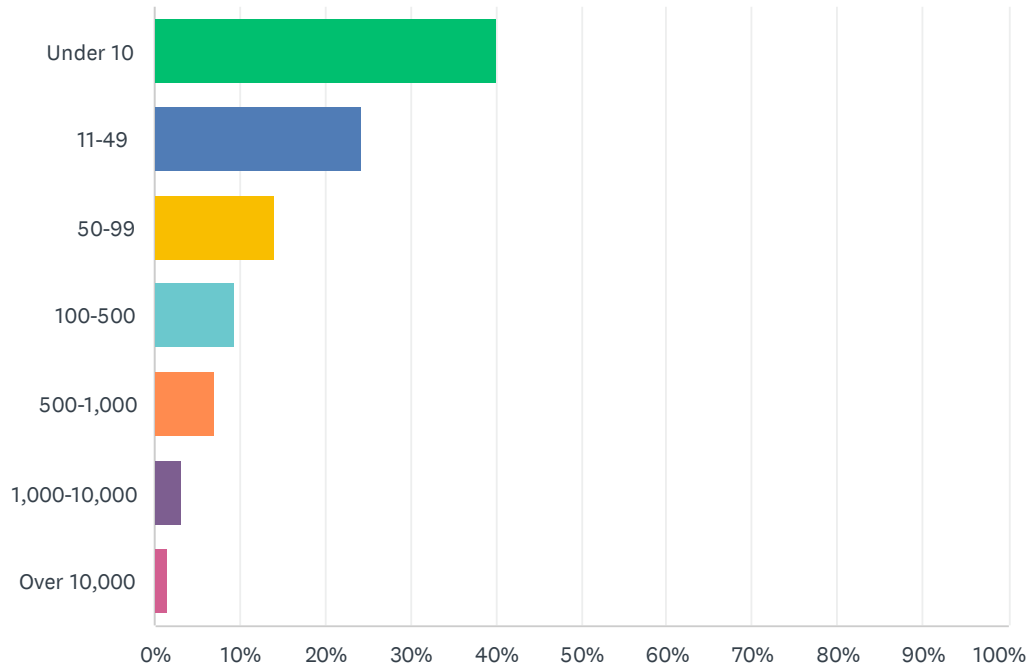
Answered: 141 Skipped: 386



ANSWER CHOICES	RESPONSES	
My company uses PureScript for a large portion of production projects.	41.84%	59
My company has actively experimented with PureScript, but does not currently use it.	2.84%	4
My company has seriously considered, but not experimented with, using PureScript.	2.13%	3
My company has not seriously considered PureScript for any use.	22.70%	32
I don't work for a company or my company does not develop software of any kind.	12.77%	18
My company uses PureScript only for non-production projects (e.g., tooling).	1.42%	2
I am unsure whether my company has considered using or currently uses PureScript.	3.55%	5
My company uses PureScript for a small portion of production projects.	12.77%	18
TOTAL		141

Q47 Approximately how many total developers does your company employ?

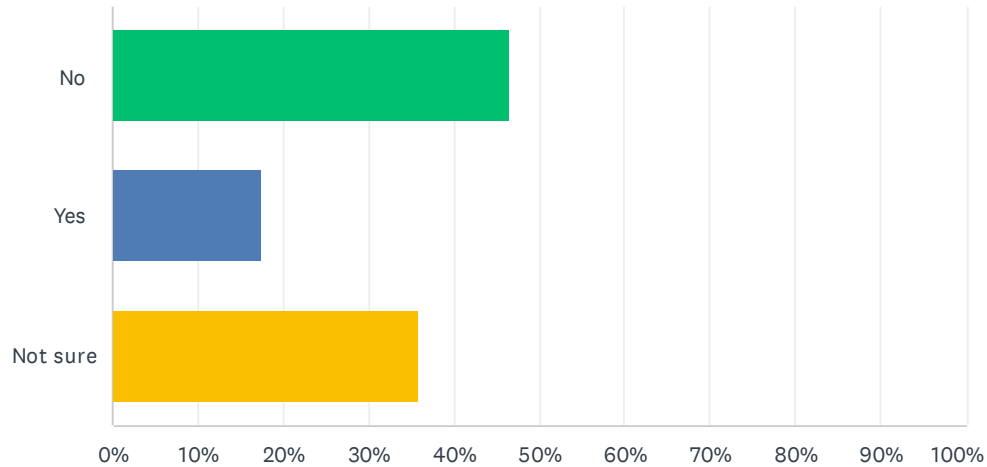
Answered: 127 Skipped: 400



ANSWER CHOICES	RESPONSES	
Under 10	40.16%	51
11-49	24.41%	31
50-99	14.17%	18
100-500	9.45%	12
500-1,000	7.09%	9
1,000-10,000	3.15%	4
Over 10,000	1.57%	2
TOTAL		127

Q48 Is your company planning on hiring PureScript developers in the next year?

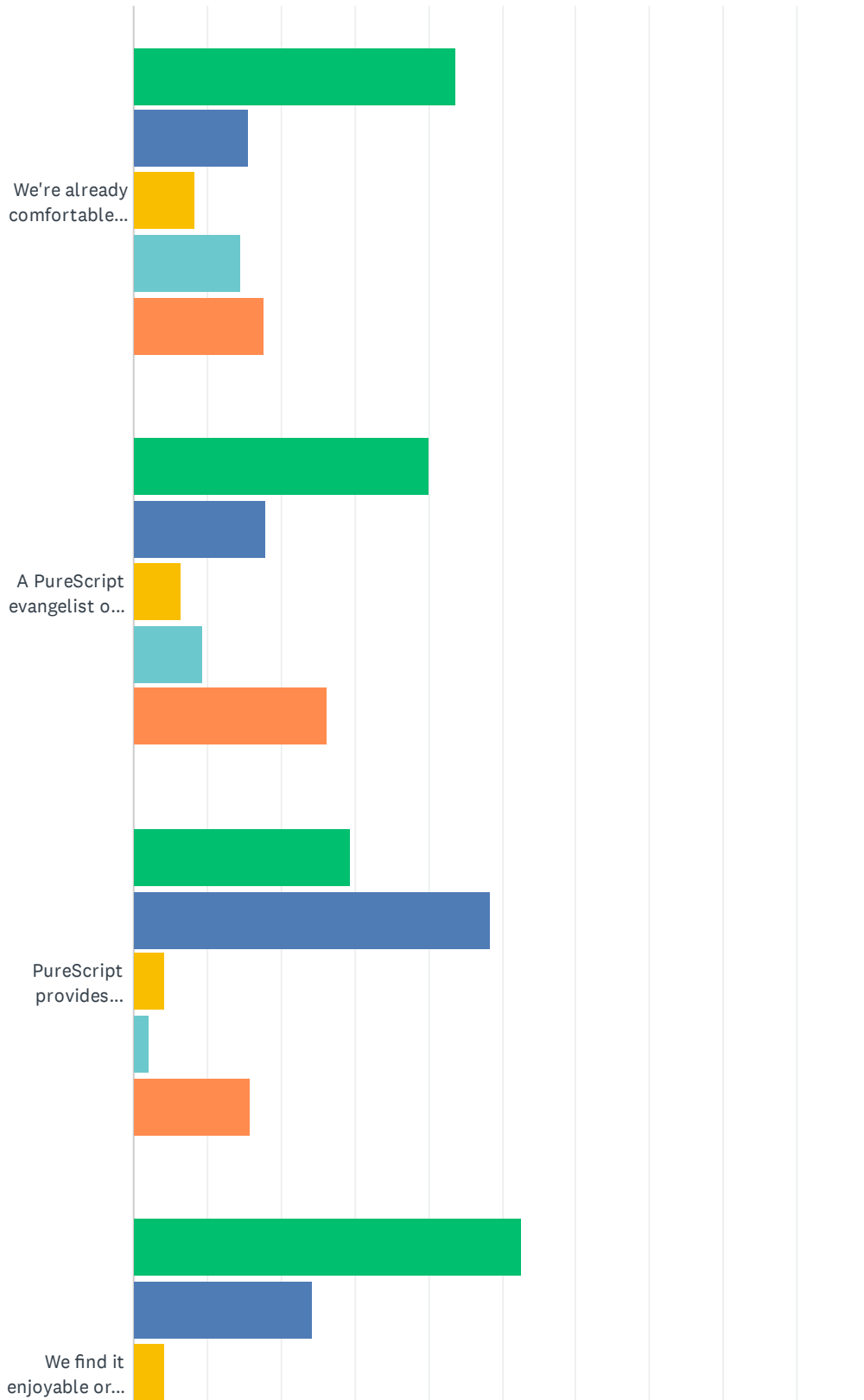
Answered: 131 Skipped: 396

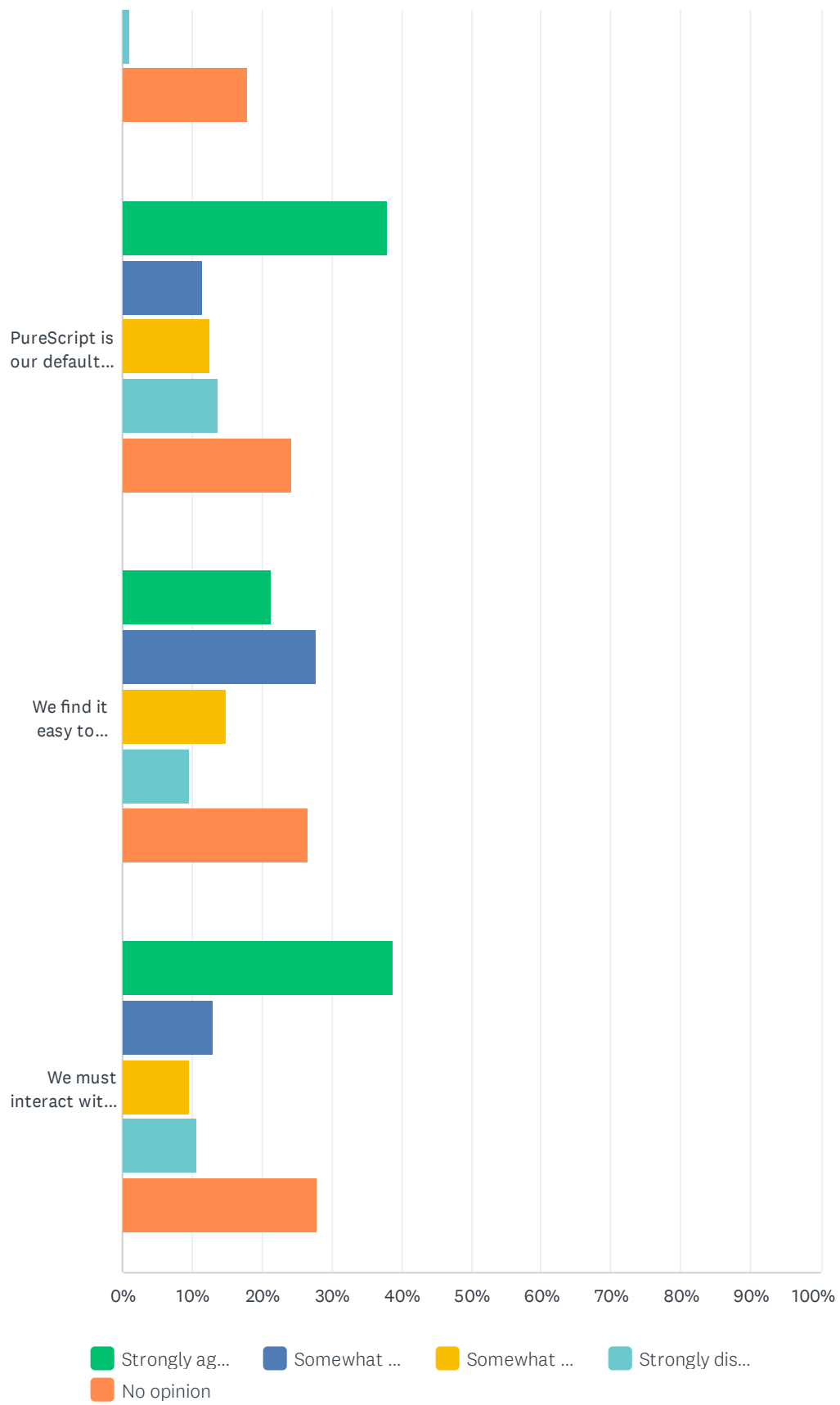


ANSWER CHOICES	RESPONSES	
No	46.56%	61
Yes	17.56%	23
Not sure	35.88%	47
TOTAL		131

Q49 If your company uses PureScript at work, rate how much you agree or disagree with the following statements.

Answered: 96 Skipped: 431

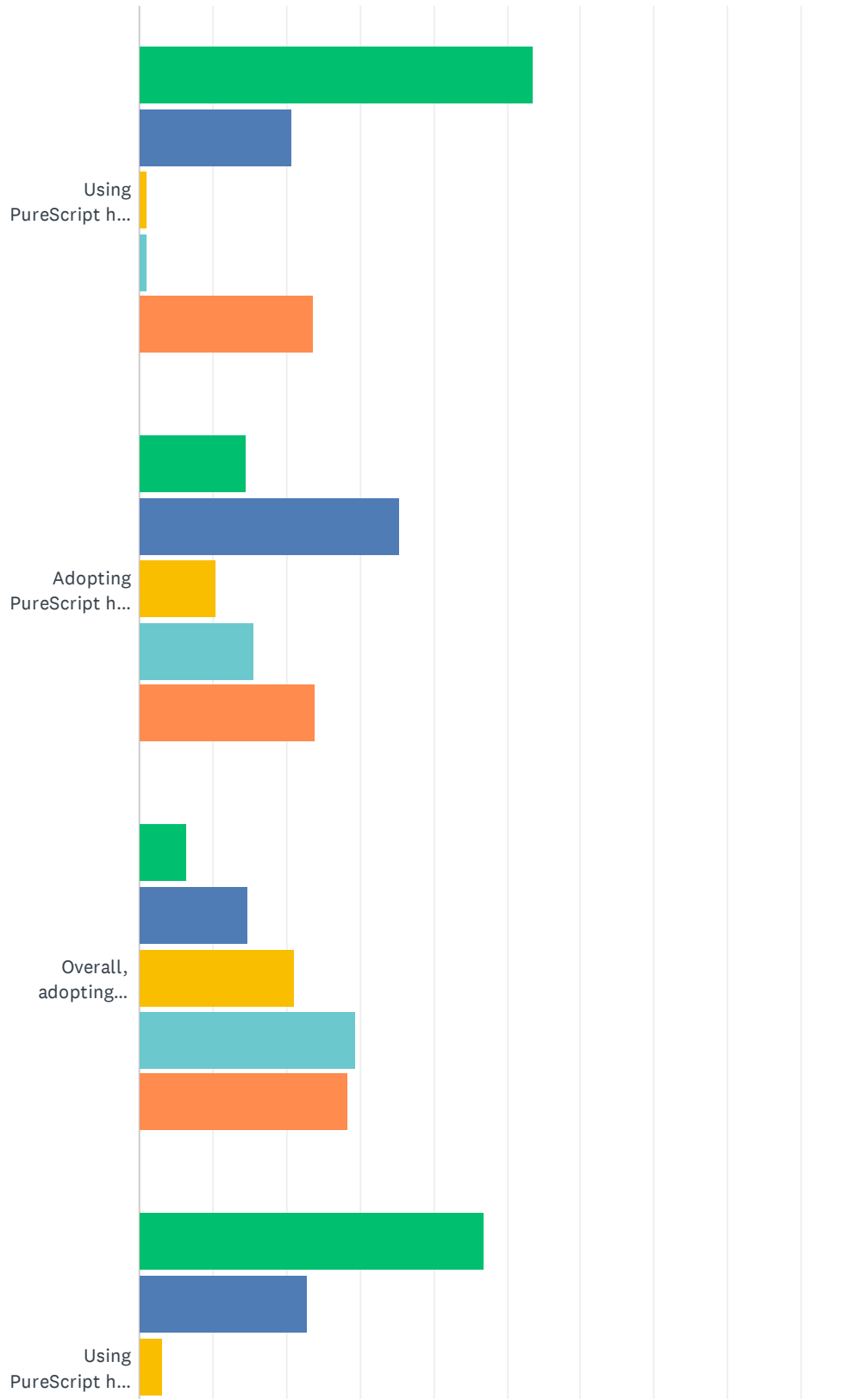


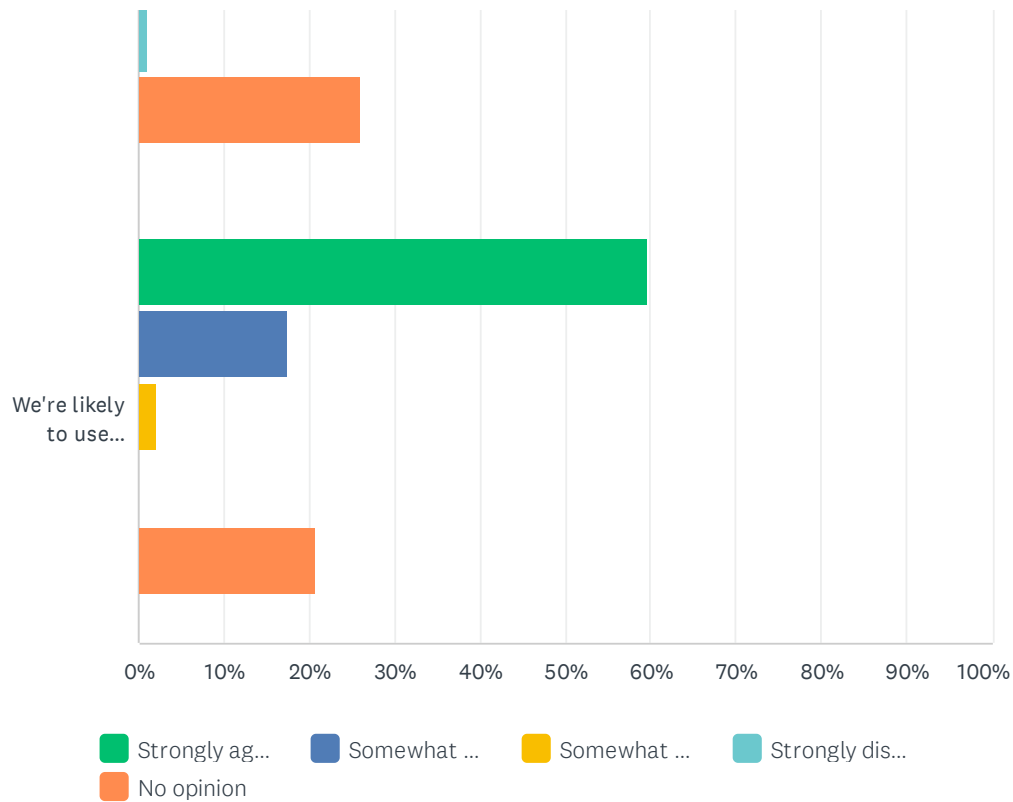


	STRONGLY AGREE	SOMEWHAT AGREE	SOMEWHAT DISAGREE	STRONGLY DISAGREE	NO OPINION	TOTAL	WEIGHTED AVERAGE
We're already comfortable with other Haskell-family languages (Haskell, Idris, etc)	43.75% 42	15.63% 15	8.33% 8	14.58% 14	17.71% 17	96	2.47
A PureScript evangelist or guru works or worked at my workplace and evangelized the language	40.00% 38	17.89% 17	6.32% 6	9.47% 9	26.32% 25	95	2.64
PureScript provides specific features we need, and which other languages don't have	29.47% 28	48.42% 46	4.21% 4	2.11% 2	15.79% 15	95	2.26
We find it enjoyable or fun to program in PureScript	52.63% 50	24.21% 23	4.21% 4	1.05% 1	17.89% 17	95	2.07
PureScript is our default choice for starting new projects	37.89% 36	11.58% 11	12.63% 12	13.68% 13	24.21% 23	95	2.75
We find it easy to prototype with	21.28% 20	27.66% 26	14.89% 14	9.57% 9	26.60% 25	94	2.93
We must interact with existing PureScript code	38.71% 36	12.90% 12	9.68% 9	10.75% 10	27.96% 26	93	2.76

Q51 Please rate your agreement with the following statements regarding your team's experience using PureScript at work.

Answered: 98 Skipped: 429

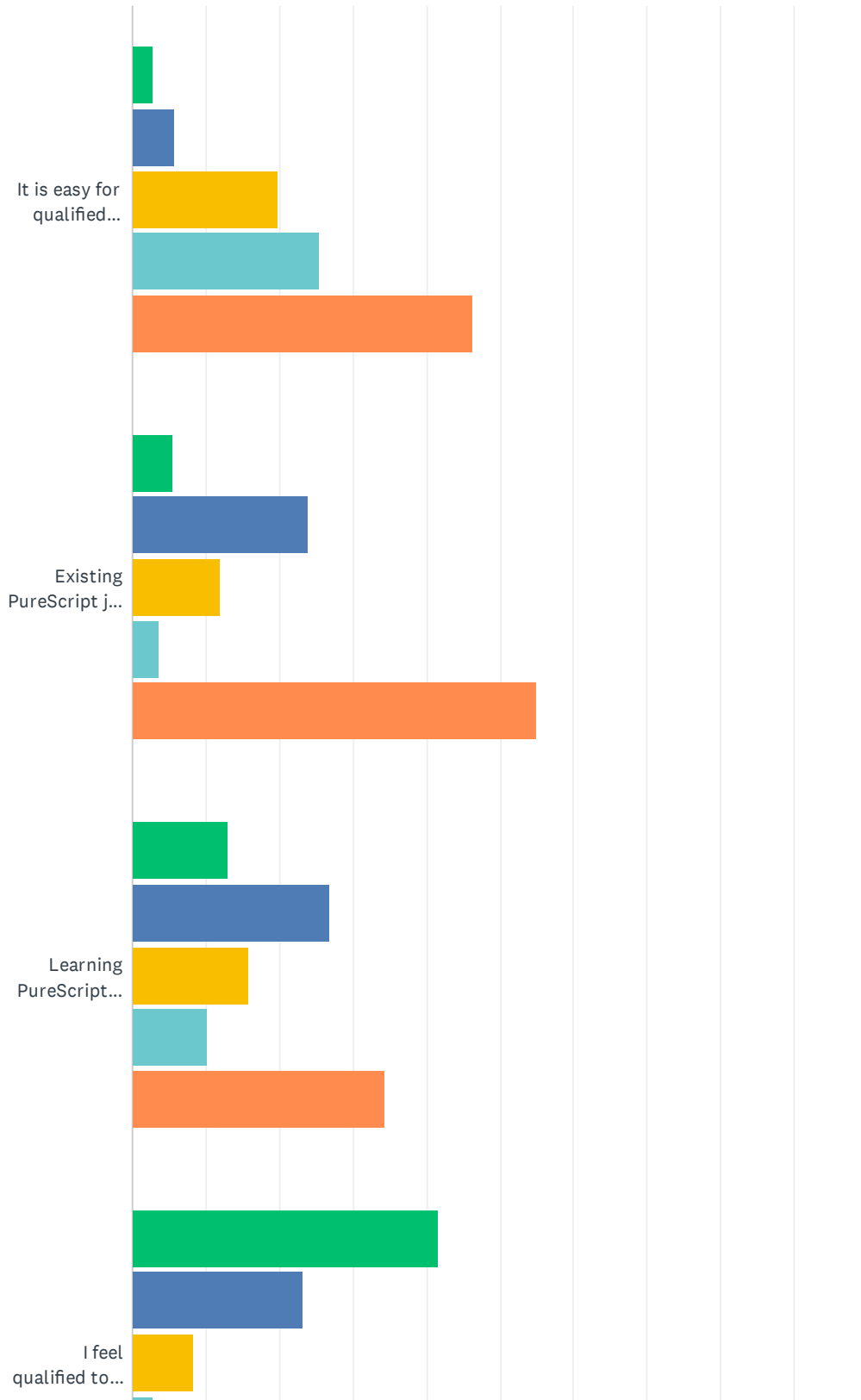


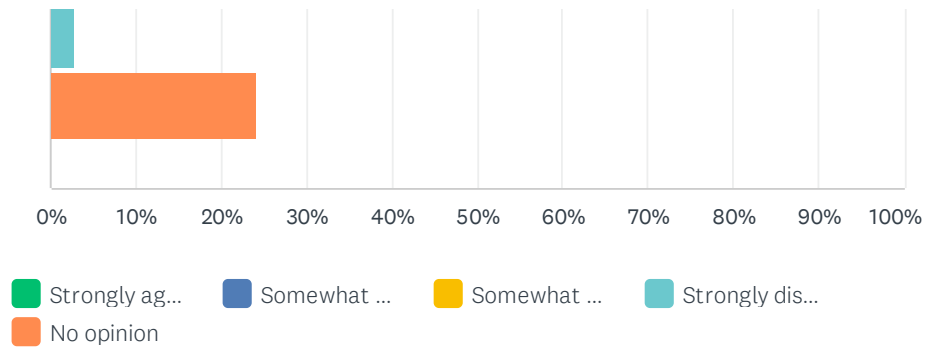


	STRONGLY AGREE	SOMEWHAT AGREE	SOMEWHAT DISAGREE	STRONGLY DISAGREE	NO OPINION	TOTAL	WEIGHTED AVERAGE
Using PureScript has helped us achieve our goals	53.61% 52	20.62% 20	1.03% 1	1.03% 1	23.71% 23	97	2.21
Adopting PureScript has been challenging	14.58% 14	35.42% 34	10.42% 10	15.63% 15	23.96% 23	96	2.99
Overall, adopting PureScript has slowed down our team	6.32% 6	14.74% 14	21.05% 20	29.47% 28	28.42% 27	95	3.59
Using PureScript has been worth the cost of adoption	46.88% 45	22.92% 22	3.13% 3	1.04% 1	26.04% 25	96	2.36
We're likely to use PureScript again in the future	59.79% 58	17.53% 17	2.06% 2	0.00% 0	20.62% 20	97	2.04

Q53 Do you agree with the following statements on PureScript employment?

Answered: 111 Skipped: 416





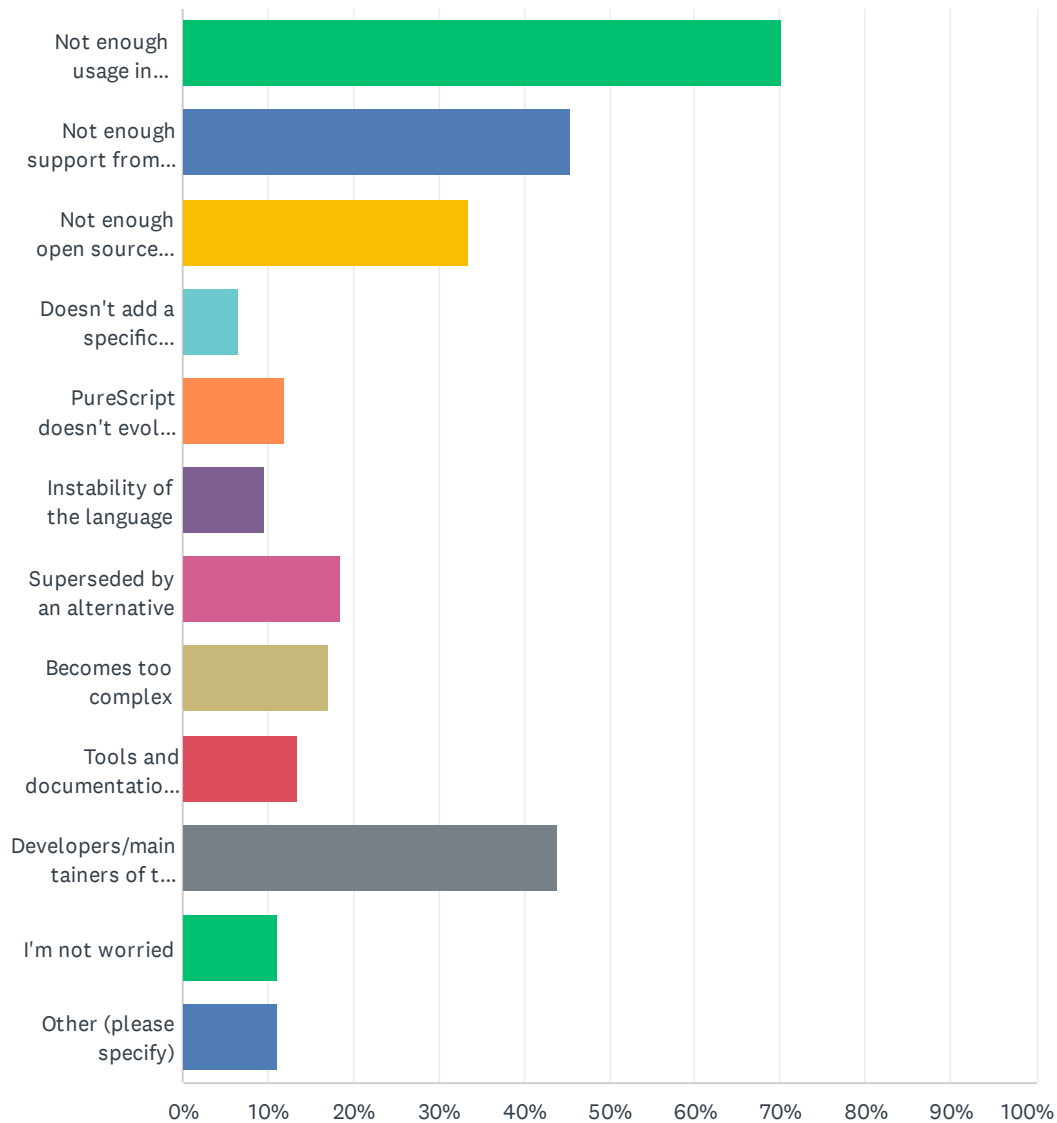
	STRONGLY AGREE	SOMEWHAT AGREE	SOMEWHAT DISAGREE	STRONGLY DISAGREE	NO OPINION	TOTAL	WEIGHTED AVERAGE
It is easy for qualified applicants to find jobs which use PureScript for the majority of programming	2.83% 3	5.66% 6	19.81% 21	25.47% 27	46.23% 49	106	4.07
Existing PureScript jobs are attractive	5.50% 6	23.85% 26	11.93% 13	3.67% 4	55.05% 60	109	3.79
Learning PureScript provides me with skills that employers seek	12.96% 14	26.85% 29	15.74% 17	10.19% 11	34.26% 37	108	3.26
I feel qualified to apply for at least some advertised PureScript jobs	41.67% 45	23.15% 25	8.33% 9	2.78% 3	24.07% 26	108	2.44

Section 5

PureScript and You

Q54 What are your biggest worries for the future of PureScript?

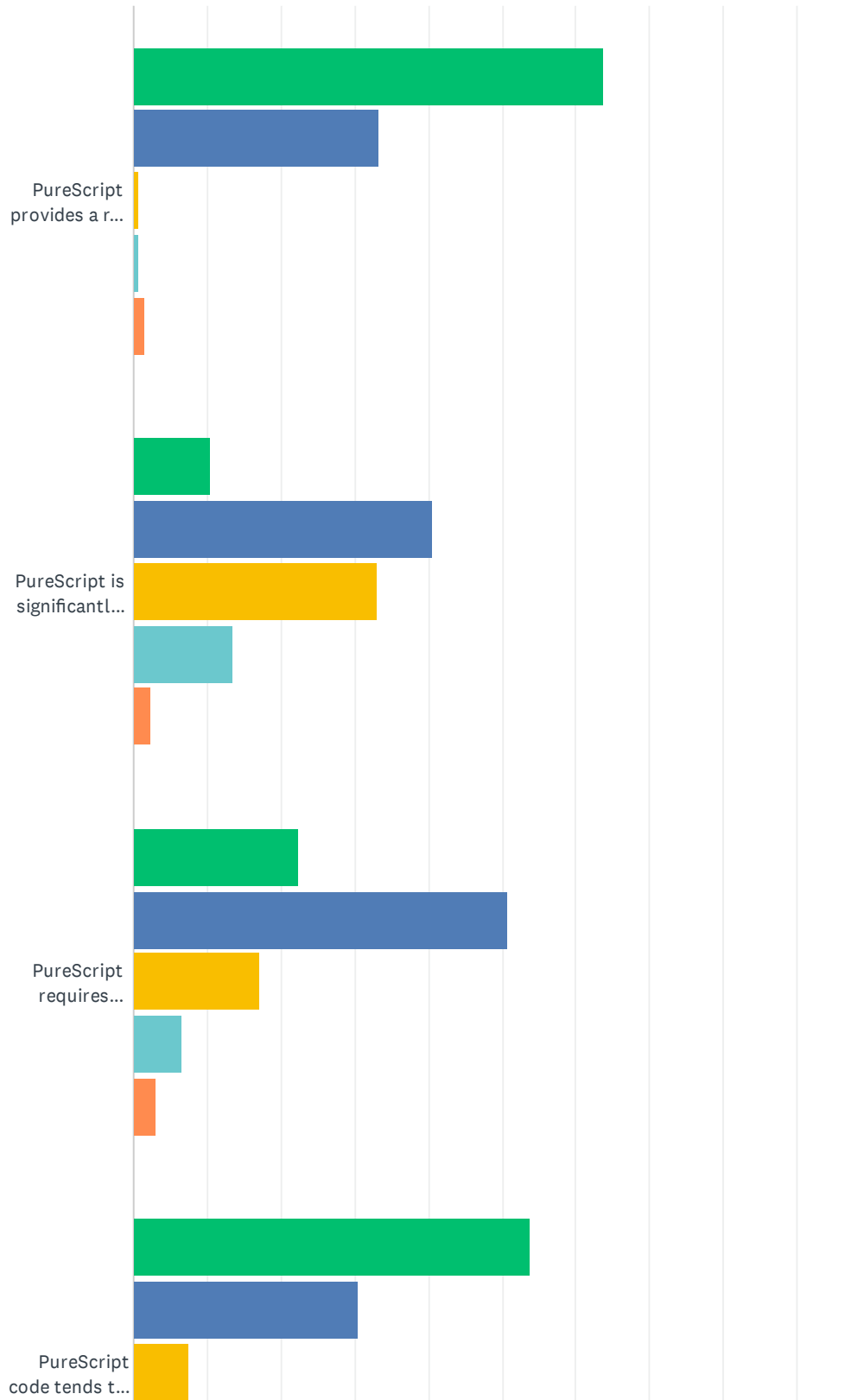
Answered: 134 Skipped: 393

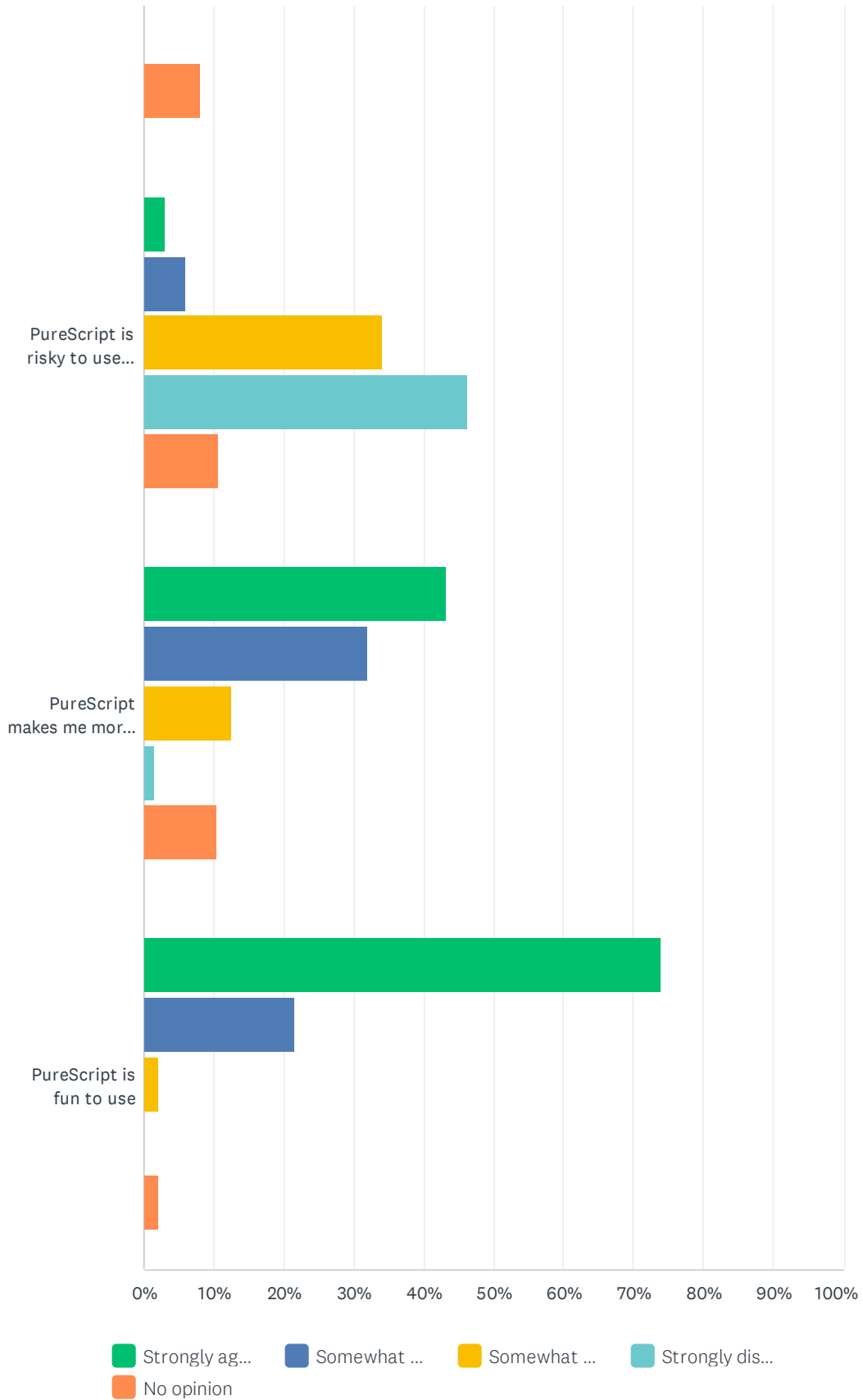


ANSWER CHOICES	RESPONSES	
Not enough usage in industry	70.15%	94
Not enough support from big companies	45.52%	61
Not enough open source contributions to the ecosystem	33.58%	45
Doesn't add a specific feature I want	6.72%	9
PureScript doesn't evolve quickly enough	11.94%	16
Instability of the language	9.70%	13
Superseded by an alternative	18.66%	25
Becomes too complex	17.16%	23
Tools and documentation are not accessible enough (e.g., due to language or incompatibility with screen readers)	13.43%	18
Developers/maintainers of the language are not properly supported	44.03%	59
I'm not worried	11.19%	15
Other (please specify)	11.19%	15
Total Respondents: 134		

Q55 Please rate your agreement with the following statements about PureScript.

Answered: 135 Skipped: 392

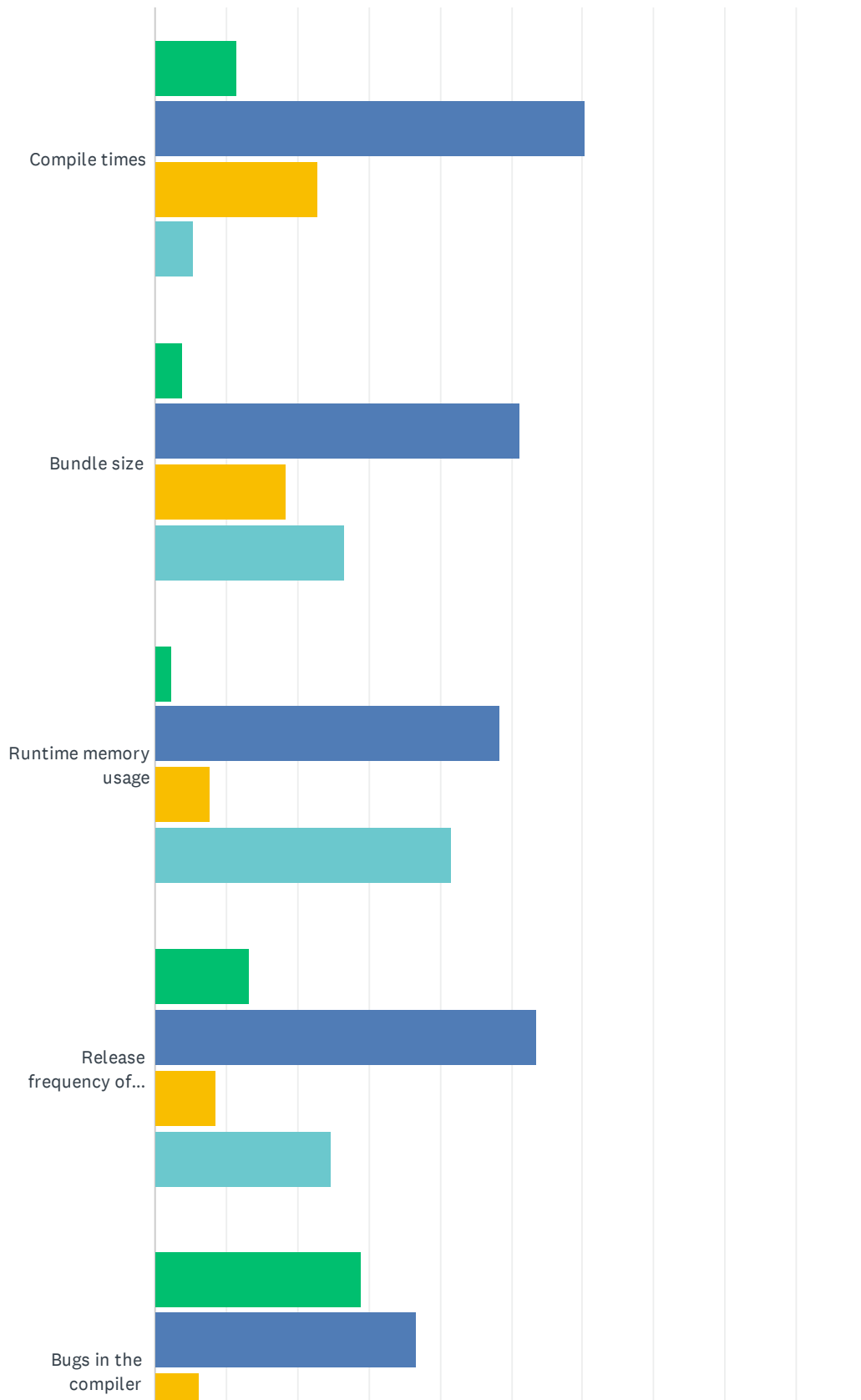


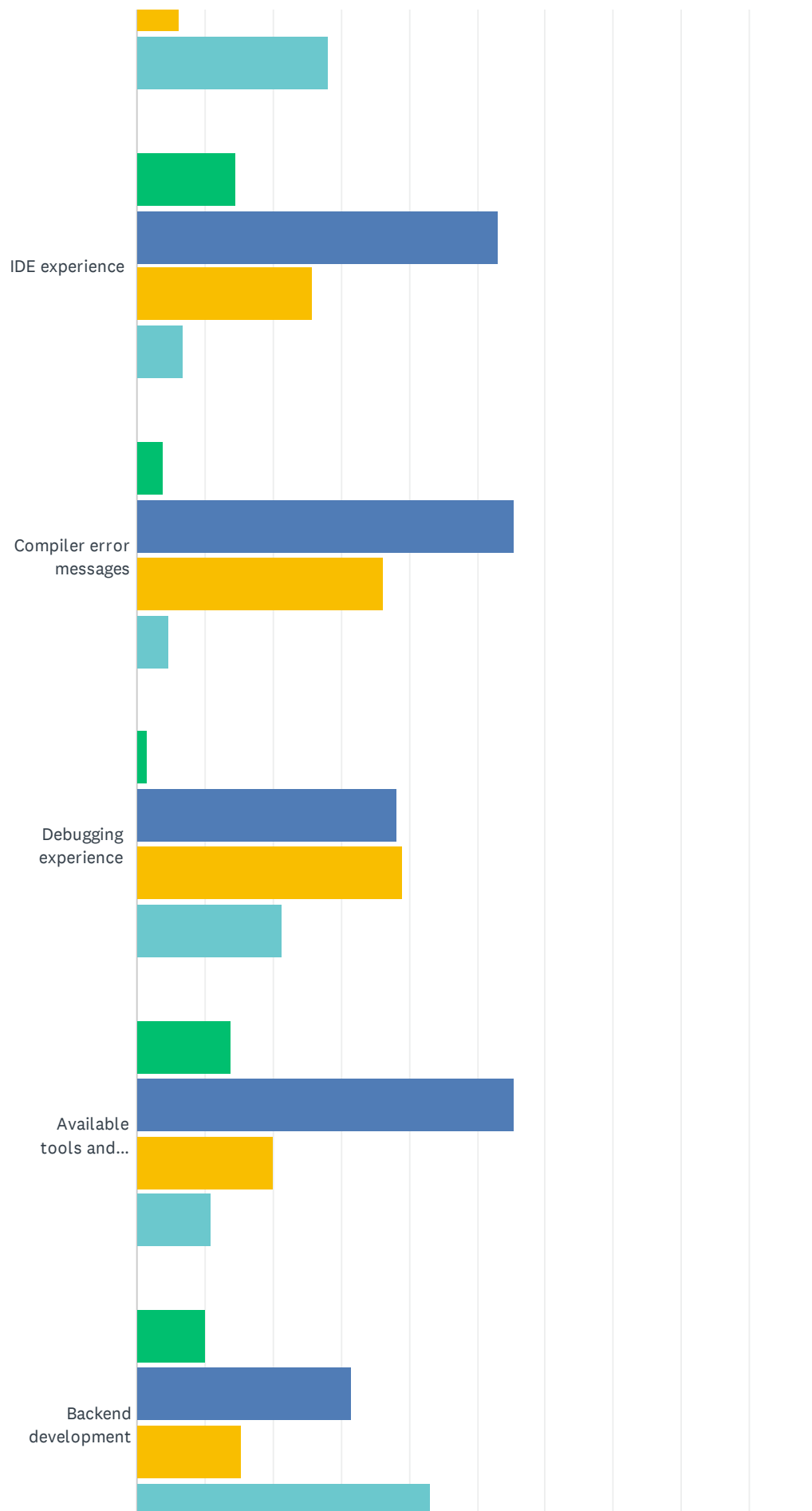


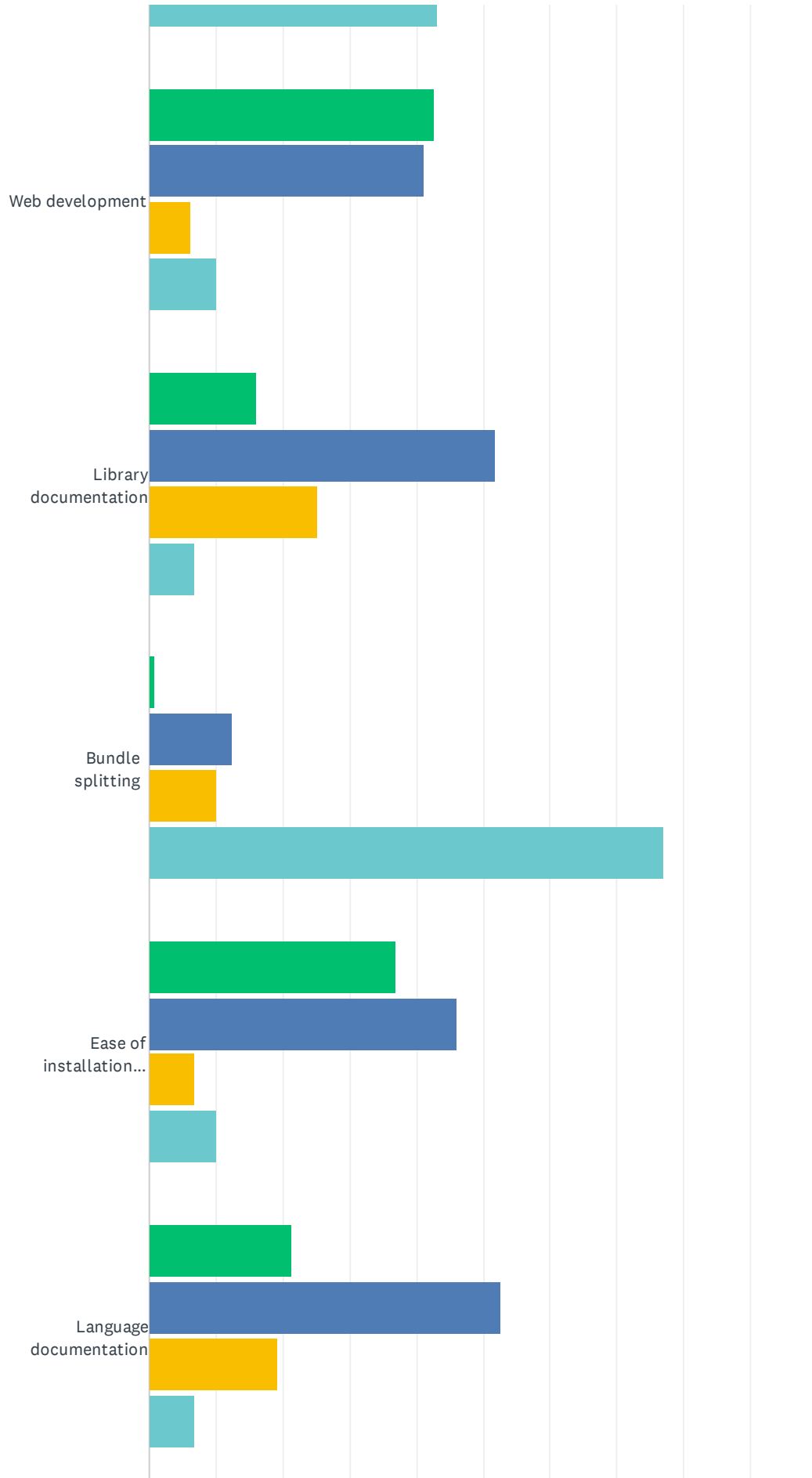
	STRONGLY AGREE	SOMEWHAT AGREE	SOMEWHAT DISAGREE	STRONGLY DISAGREE	NO OPINION	TOTAL	WEIGHTED AVERAGE
PureScript provides a real benefit over other programming languages	63.70% 86	33.33% 45	0.74% 1	0.74% 1	1.48% 2	135	1.43
PureScript is significantly more complicated to program in than other programming languages	10.53% 14	40.60% 54	33.08% 44	13.53% 18	2.26% 3	133	2.56
PureScript requires significantly more effort to learn than other programming languages	22.39% 30	50.75% 68	17.16% 23	6.72% 9	2.99% 4	134	2.17
PureScript code tends to contain significantly fewer bugs than equivalent code written in another programming language	53.73% 72	30.60% 41	7.46% 10	0.00% 0	8.21% 11	134	1.78
PureScript is risky to use in production	3.03% 4	6.06% 8	34.09% 45	46.21% 61	10.61% 14	132	3.55
PureScript makes me more productive	43.28% 58	32.09% 43	12.69% 17	1.49% 2	10.45% 14	134	2.04
PureScript is fun to use	74.07% 100	21.48% 29	2.22% 3	0.00% 0	2.22% 3	135	1.35

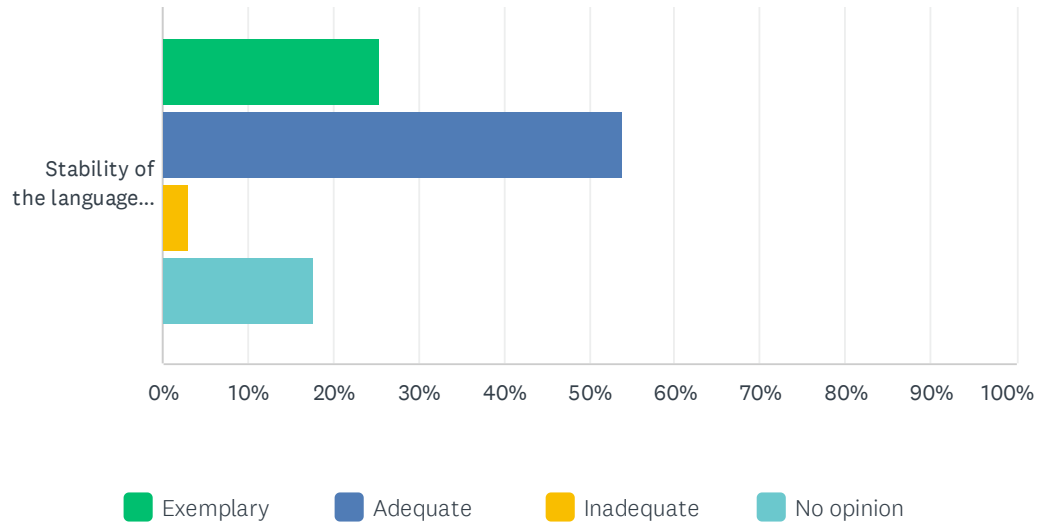
Q56 In your opinion, how do you find the following aspects of PureScript?

Answered: 133 Skipped: 394





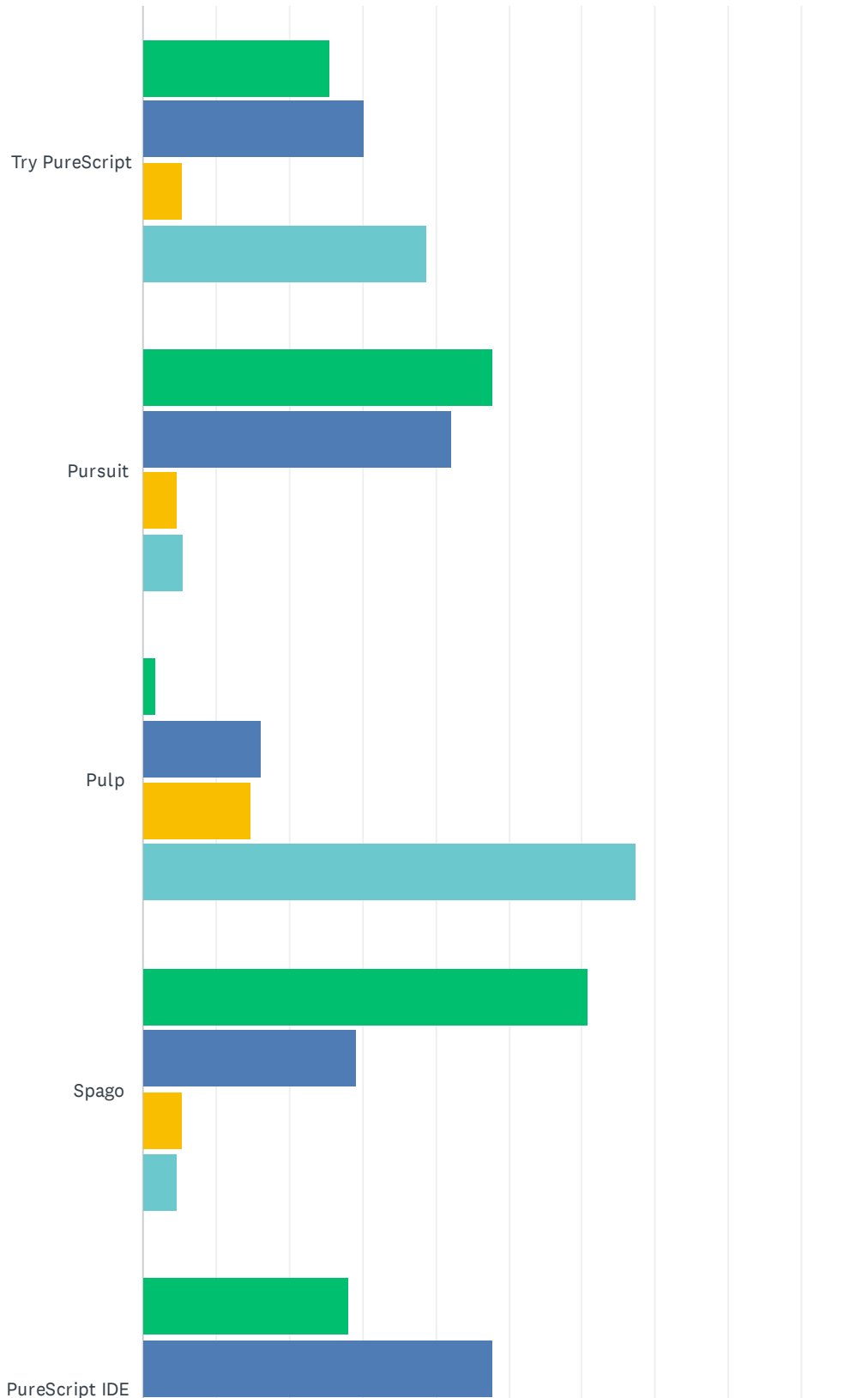


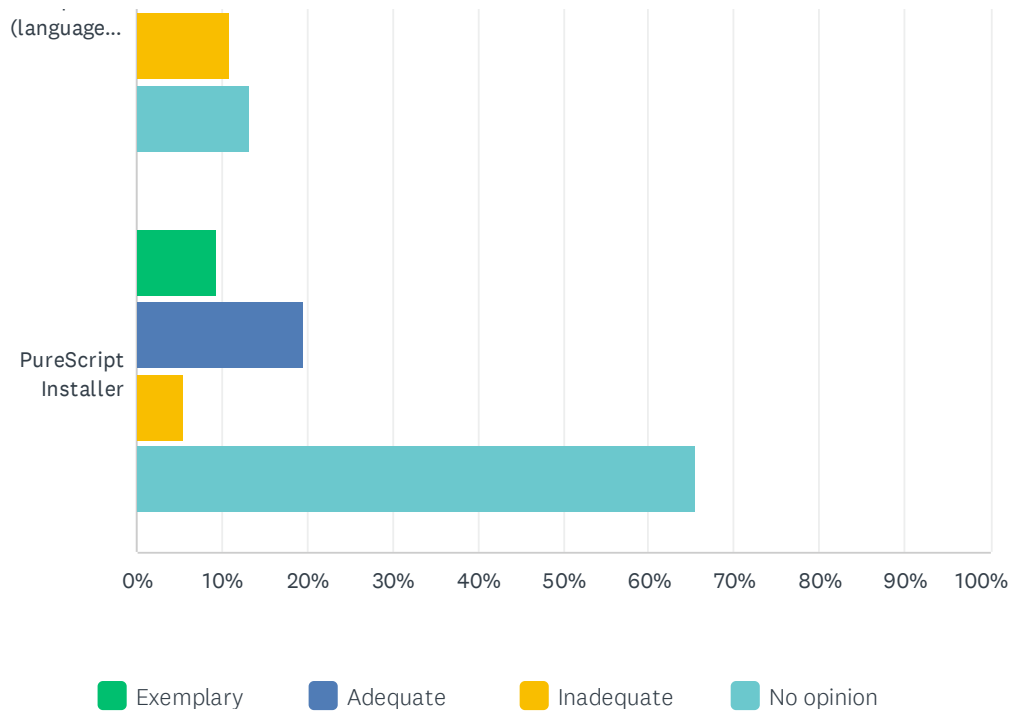


	EXEMPLARY	ADEQUATE	INADEQUATE	NO OPINION	TOTAL	WEIGHTED AVERAGE
Compile times	11.45% 15	60.31% 79	22.90% 30	5.34% 7	131	2.22
Bundle size	3.82% 5	51.15% 67	18.32% 24	26.72% 35	131	2.68
Runtime memory usage	2.31% 3	48.46% 63	7.69% 10	41.54% 54	130	2.88
Release frequency of compiler and core libraries	13.18% 17	53.49% 69	8.53% 11	24.81% 32	129	2.45
Bugs in the compiler	28.91% 37	36.72% 47	6.25% 8	28.13% 36	128	2.34
IDE experience	14.39% 19	53.03% 70	25.76% 34	6.82% 9	132	2.25
Compiler error messages	3.85% 5	55.38% 72	36.15% 47	4.62% 6	130	2.42
Debugging experience	1.53% 2	38.17% 50	38.93% 51	21.37% 28	131	2.80
Available tools and support	13.85% 18	55.38% 72	20.00% 26	10.77% 14	130	2.28
Backend development	10.00% 13	31.54% 41	15.38% 20	43.08% 56	130	2.92
Web development	42.75% 56	41.22% 54	6.11% 8	9.92% 13	131	1.83
Library documentation	16.03% 21	51.91% 68	25.19% 33	6.87% 9	131	2.23
Bundle splitting	0.77% 1	12.31% 16	10.00% 13	76.92% 100	130	3.63
Ease of installation and starting new projects	36.92% 48	46.15% 60	6.92% 9	10.00% 13	130	1.90
Language documentation	21.37% 28	52.67% 69	19.08% 25	6.87% 9	131	2.11
Stability of the language and compiler	25.38% 33	53.85% 70	3.08% 4	17.69% 23	130	2.13

Q57 In your opinion, how do you find the following PureScript tools and services?

Answered: 131 Skipped: 396

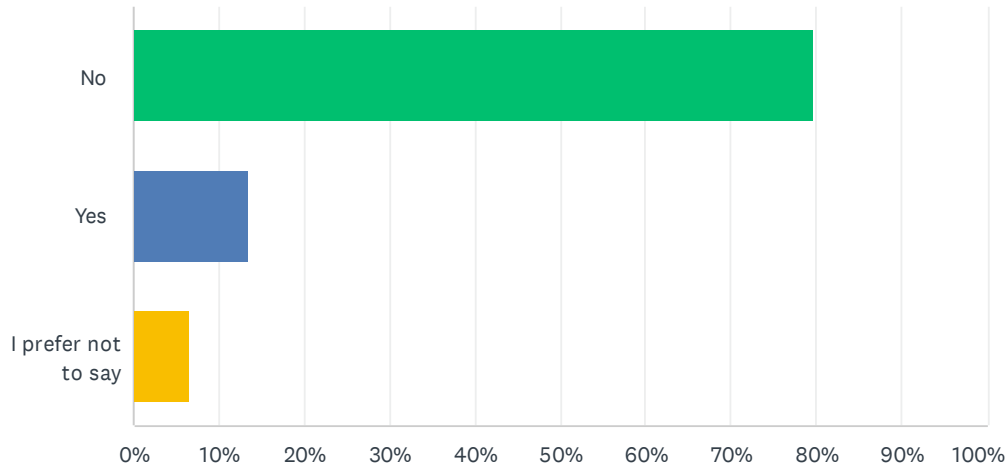




	EXEMPLARY	ADEQUATE	INADEQUATE	NO OPINION	TOTAL	WEIGHTED AVERAGE
Try PureScript	25.58% 33	30.23% 39	5.43% 7	38.76% 50	129	2.57
Pursuit	47.66% 61	42.19% 54	4.69% 6	5.47% 7	128	1.68
Pulp	1.63% 2	16.26% 20	14.63% 18	67.48% 83	123	3.48
Spago	60.77% 79	29.23% 38	5.38% 7	4.62% 6	130	1.54
PureScript IDE (language server)	28.13% 36	47.66% 61	10.94% 14	13.28% 17	128	2.09
PureScript Installer	9.45% 12	19.69% 25	5.51% 7	65.35% 83	127	3.27

Q58 Do you consider yourself a member of a group which is underrepresented or marginalized in technology?

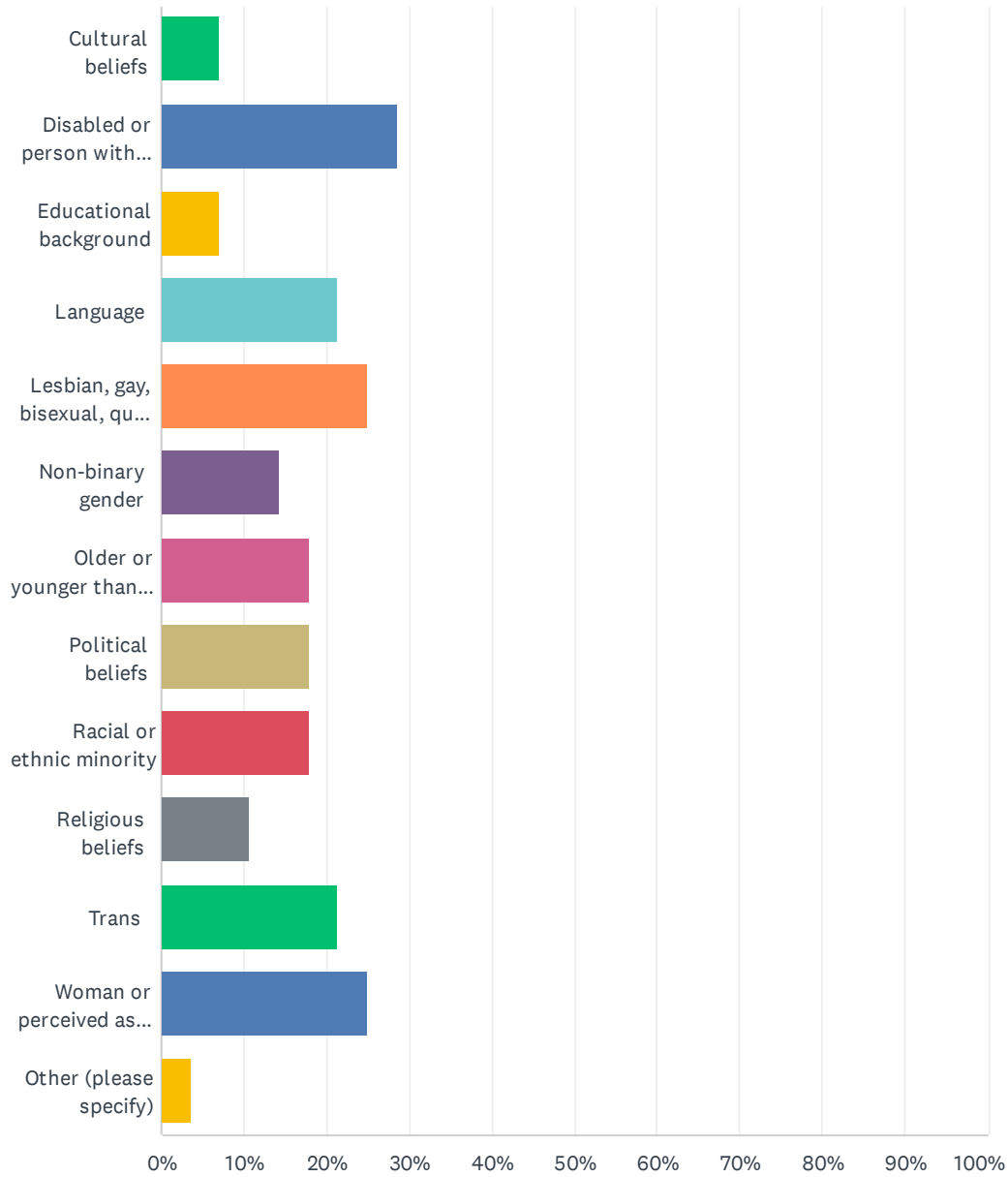
Answered: 134 Skipped: 393



ANSWER CHOICES	RESPONSES	
No	79.85%	107
Yes	13.43%	18
I prefer not to say	6.72%	9
TOTAL		134

Q59 Which of the following underrepresented or marginalized groups in technology do you consider yourself a part of?

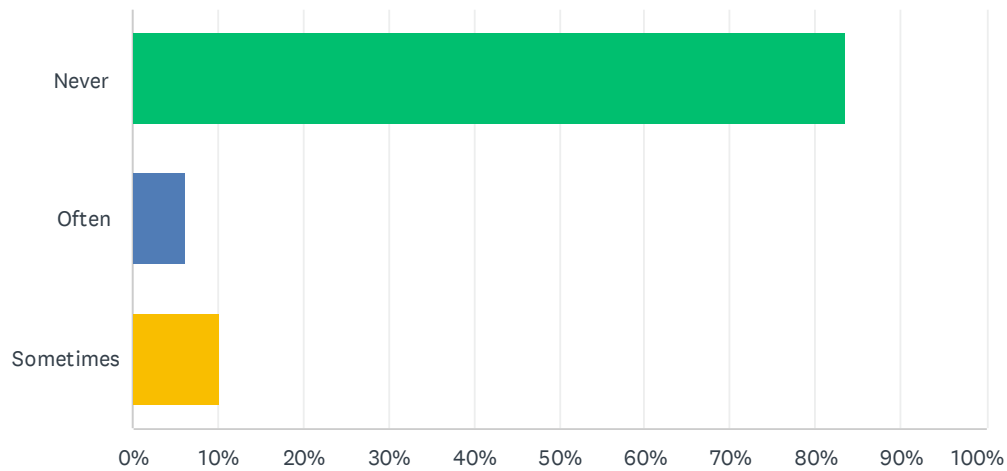
Answered: 28 Skipped: 499



ANSWER CHOICES	RESPONSES	
Cultural beliefs	7.14%	2
Disabled or person with disability (including physical, mental, and other)	28.57%	8
Educational background	7.14%	2
Language	21.43%	6
Lesbian, gay, bisexual, queer or otherwise non-heterosexual	25.00%	7
Non-binary gender	14.29%	4
Older or younger than the average developers I know	17.86%	5
Political beliefs	17.86%	5
Racial or ethnic minority	17.86%	5
Religious beliefs	10.71%	3
Trans	21.43%	6
Woman or perceived as a woman	25.00%	7
Other (please specify)	3.57%	1
Total Respondents: 28		

Q60 Do you feel that belonging to an underrepresented or marginalized group in technology makes it difficult for you to participate in the PureScript community?

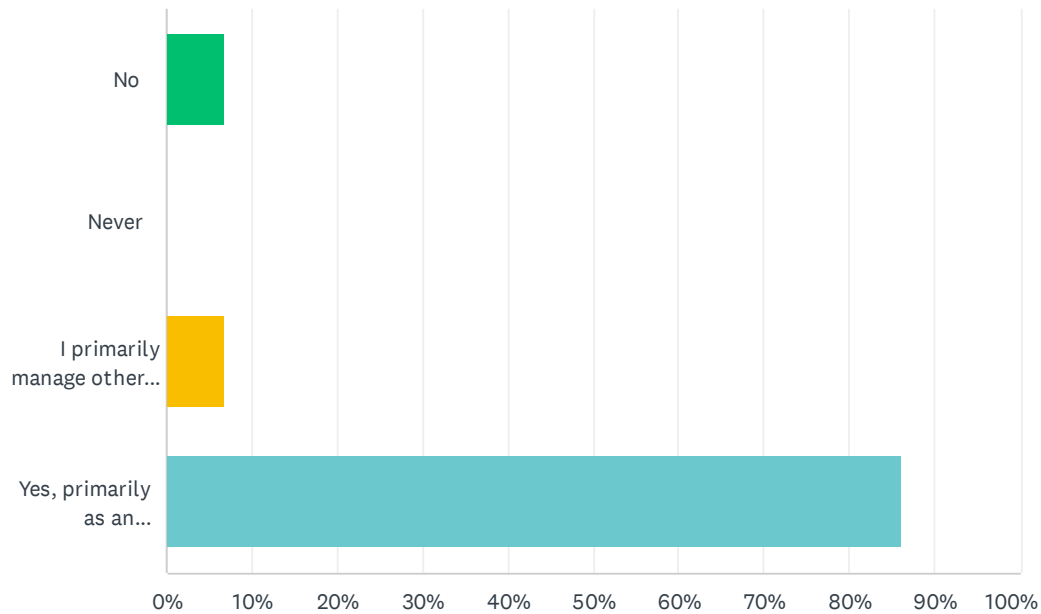
Answered: 49 Skipped: 478



ANSWER CHOICES	RESPONSES	
Never	83.67%	41
Often	6.12%	3
Sometimes	10.20%	5
TOTAL		49

Q61 Do you write or design software in your work?

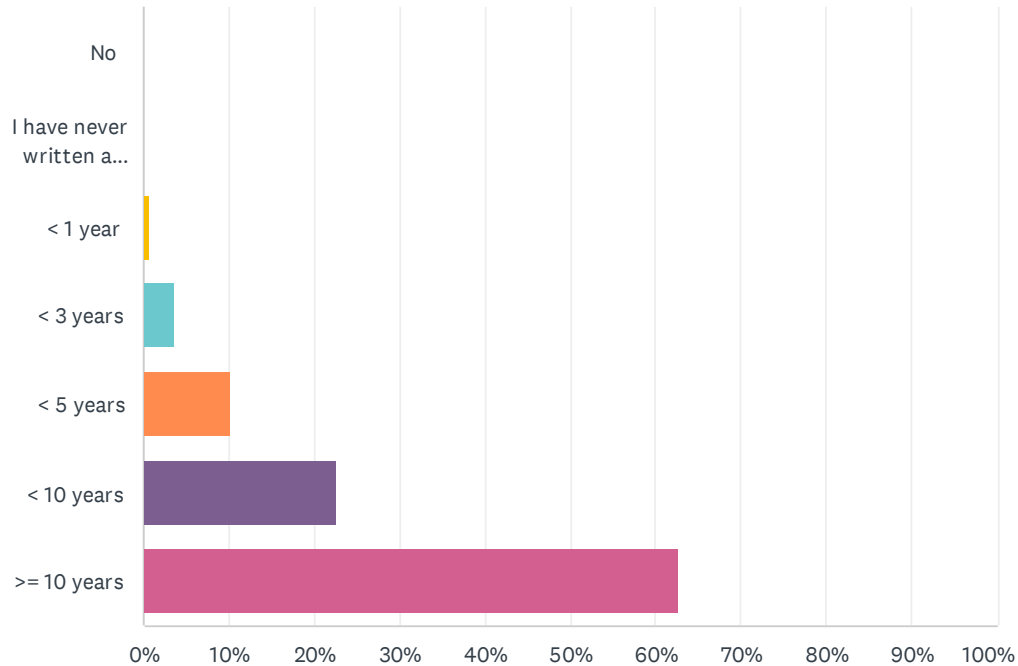
Answered: 130 Skipped: 397



ANSWER CHOICES	RESPONSES	
No	6.92%	9
Never	0.00%	0
I primarily manage others who do	6.92%	9
Yes, primarily as an individual contributor (i.e., non-manager)	86.15%	112
TOTAL		130

Q62 How long have you been programming (in any language, for any reason)?

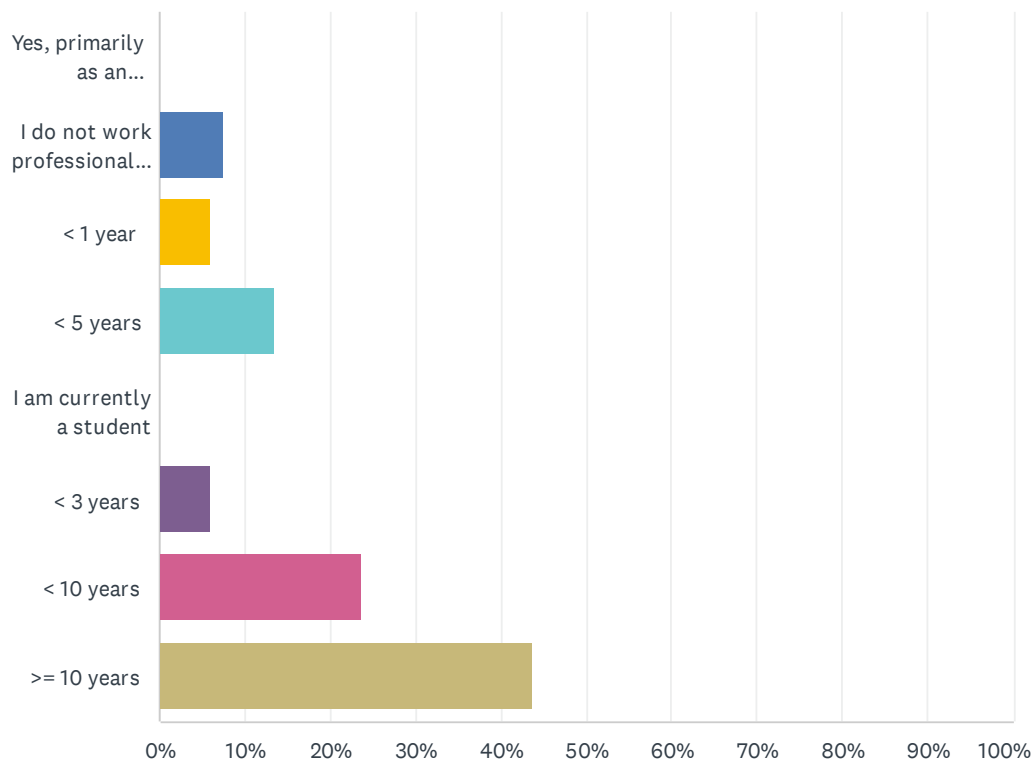
Answered: 137 Skipped: 390



ANSWER CHOICES	RESPONSES	
No	0.00%	0
I have never written a computer program	0.00%	0
< 1 year	0.73%	1
< 3 years	3.65%	5
< 5 years	10.22%	14
< 10 years	22.63%	31
>= 10 years	62.77%	86
TOTAL		137

Q63 How long have you worked in software professionally?

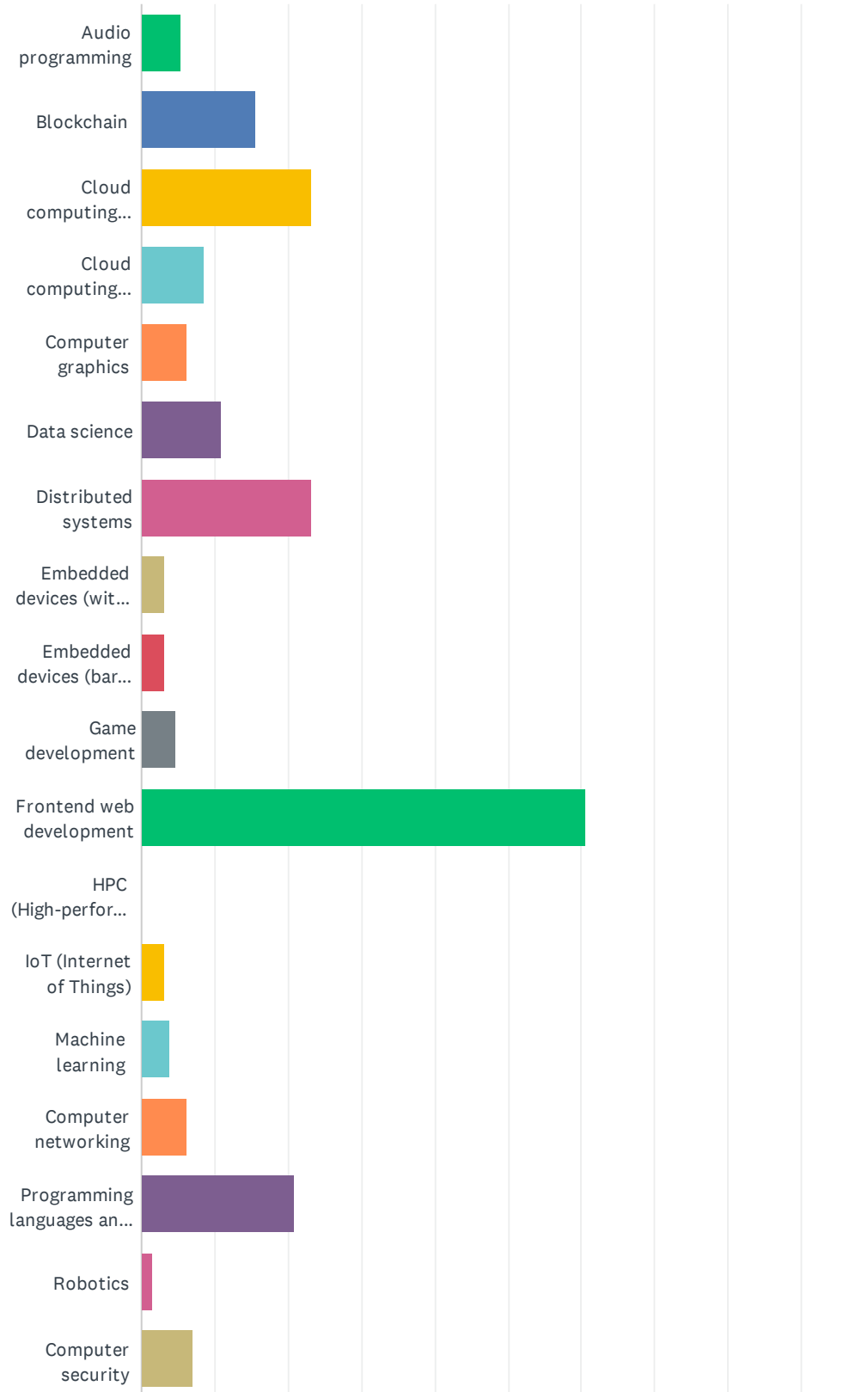
Answered: 135 Skipped: 392

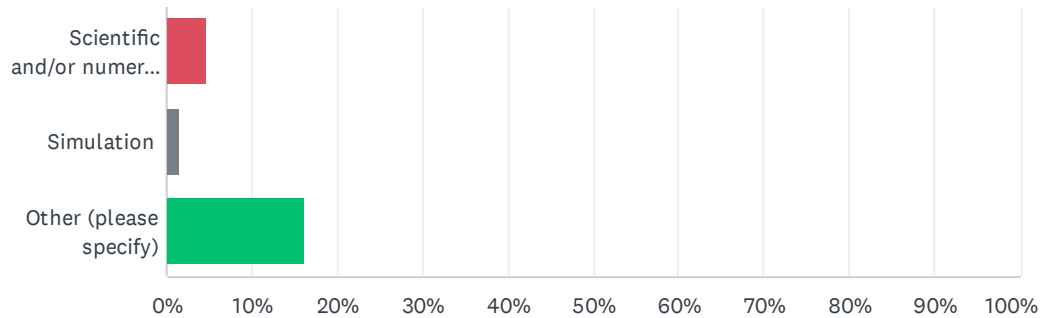


ANSWER CHOICES	RESPONSES	
Yes, primarily as an individual contributor (i.e., non-manager)	0.00%	0
I do not work professionally in software	7.41%	10
< 1 year	5.93%	8
< 5 years	13.33%	18
I am currently a student	0.00%	0
< 3 years	5.93%	8
< 10 years	23.70%	32
>= 10 years	43.70%	59
TOTAL		135

Q64 Which categories best describes the tech domain(s) you currently write or design software in?

Answered: 129 Skipped: 398

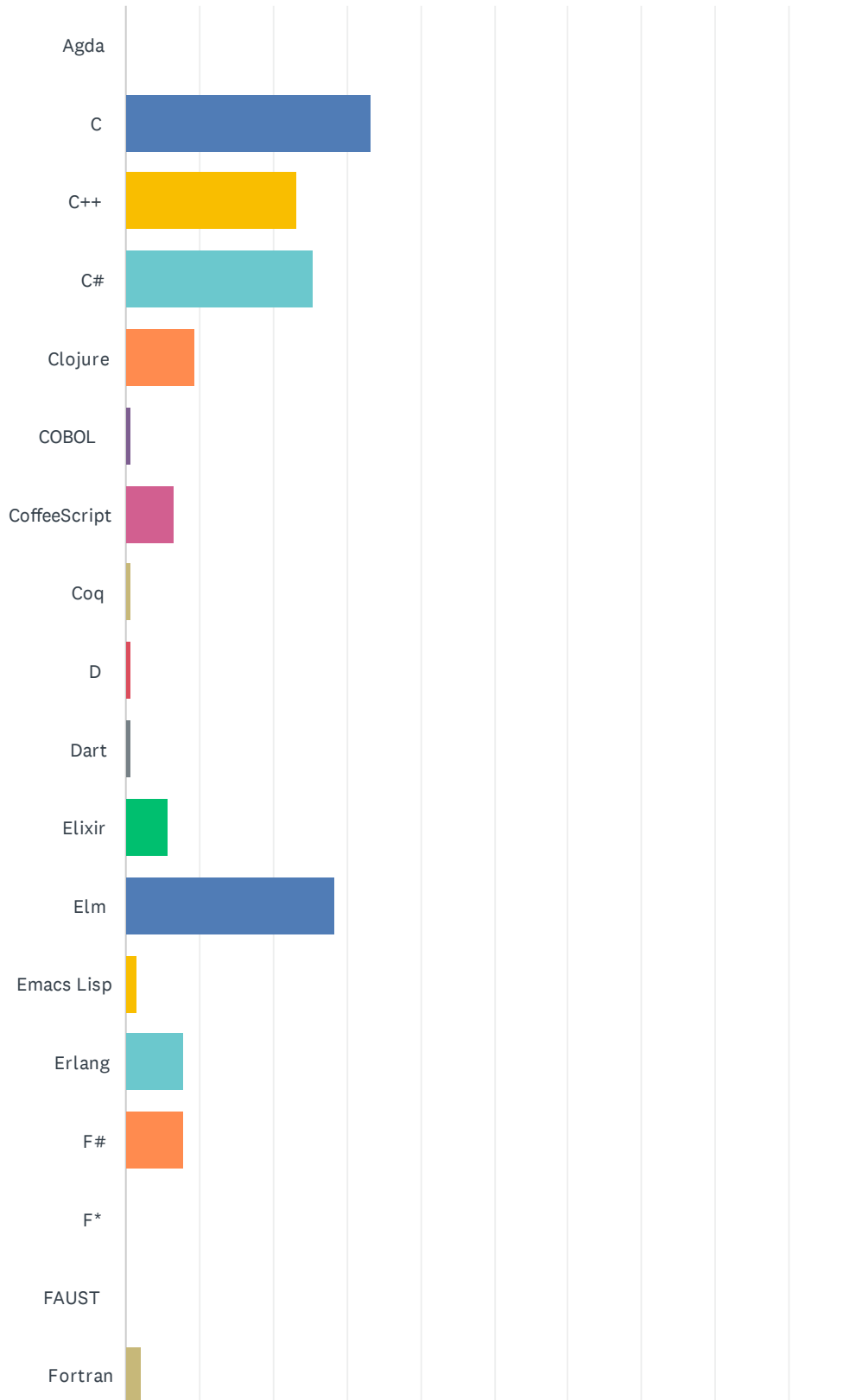


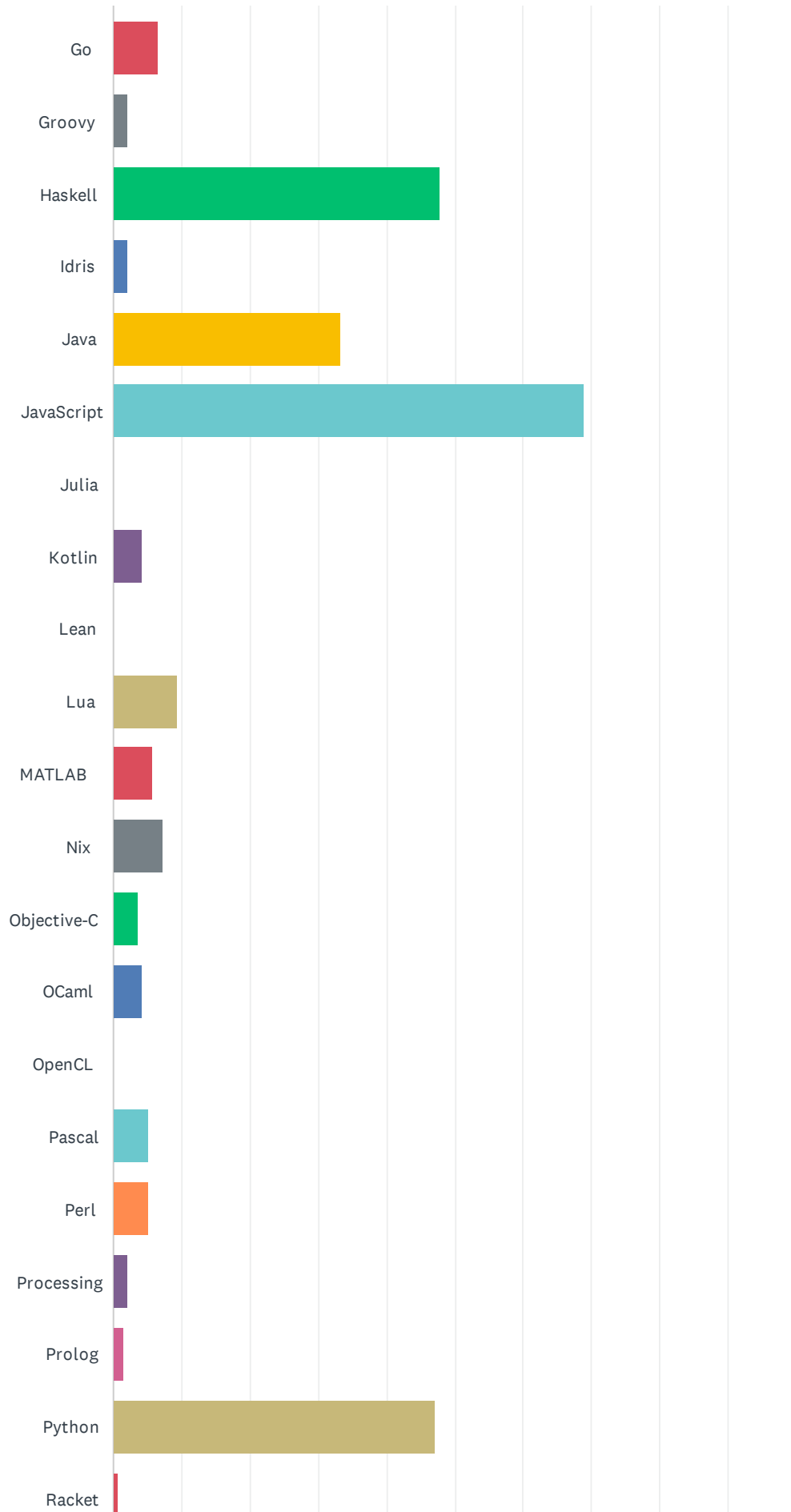


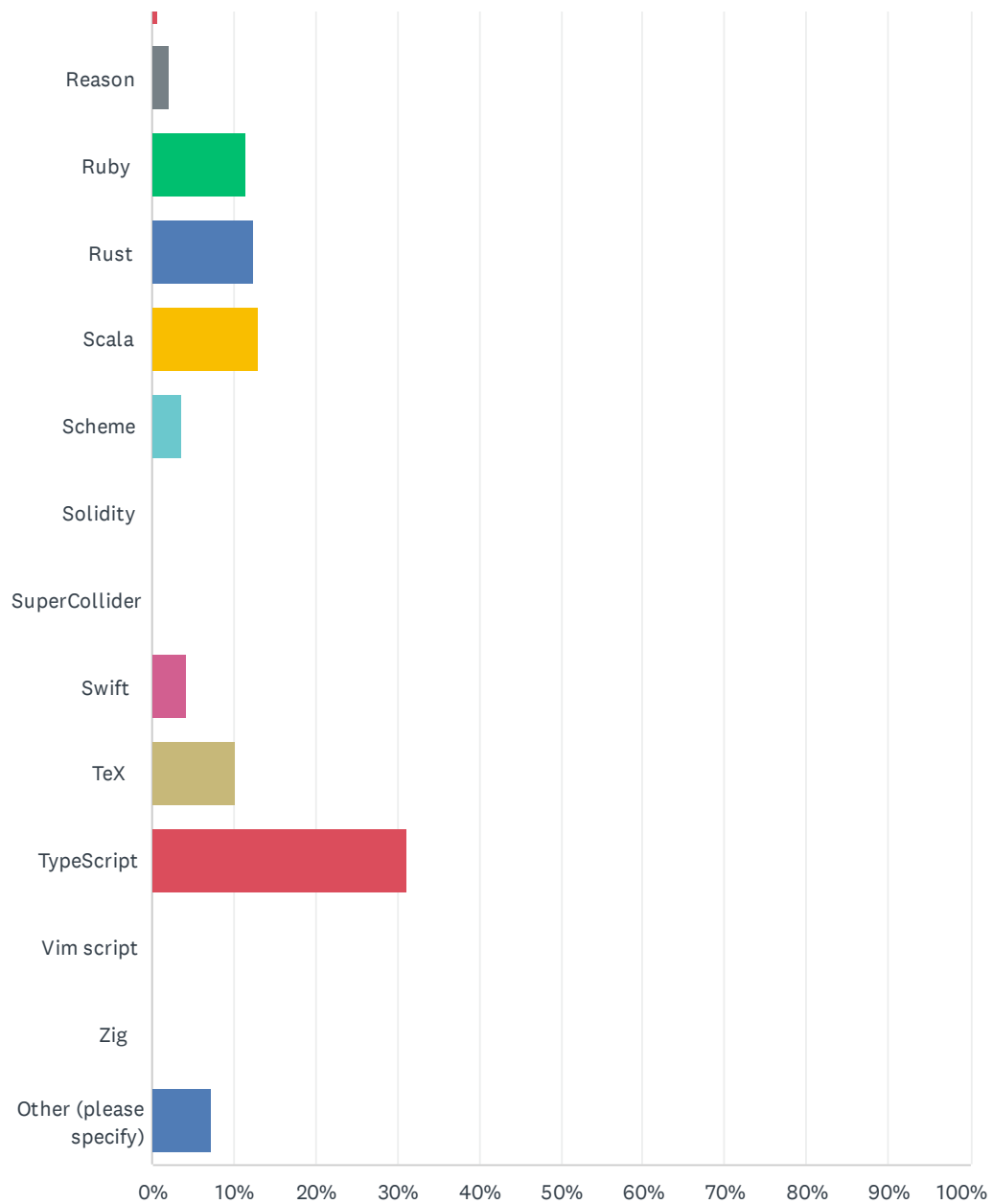
ANSWER CHOICES	RESPONSES	
Audio programming	5.43%	7
Blockchain	15.50%	20
Cloud computing applications	23.26%	30
Cloud computing infrastructure or utilities	8.53%	11
Computer graphics	6.20%	8
Data science	10.85%	14
Distributed systems	23.26%	30
Embedded devices (with operating systems)	3.10%	4
Embedded devices (bare metal)	3.10%	4
Game development	4.65%	6
Frontend web development	60.47%	78
HPC (High-performance computing)	0.00%	0
IoT (Internet of Things)	3.10%	4
Machine learning	3.88%	5
Computer networking	6.20%	8
Programming languages and related tools (including compilers, IDEs, standard libraries, etc.)	20.93%	27
Robotics	1.55%	2
Computer security	6.98%	9
Scientific and/or numeric computing	4.65%	6
Simulation	1.55%	2
Other (please specify)	16.28%	21
Total Respondents: 129		

Q65 What programming languages were you fluent in before starting with PureScript

Answered: 138 Skipped: 389







ANSWER CHOICES	RESPONSES	
Agda	0.00%	0
C	33.33%	46
C++	23.19%	32
C#	25.36%	35
Clojure	9.42%	13
COBOL	0.72%	1
CoffeeScript	6.52%	9
Coq	0.72%	1
D	0.72%	1
Dart	0.72%	1
Elixir	5.80%	8
Elm	28.26%	39
Emacs Lisp	1.45%	2
Erlang	7.97%	11
F#	7.97%	11
F*	0.00%	0
FAUST	0.00%	0
Fortran	2.17%	3
Go	6.52%	9
Groovy	2.17%	3
Haskell	47.83%	66
Idris	2.17%	3
Java	33.33%	46
JavaScript	68.84%	95
Julia	0.00%	0
Kotlin	4.35%	6
Lean	0.00%	0
Lua	9.42%	13
MATLAB	5.80%	8
Nix	7.25%	10
Objective-C	3.62%	5
OCaml	4.35%	6

OpenCL	0.00%	0
Pascal	5.07%	7
Perl	5.07%	7
Processing	2.17%	3
Prolog	1.45%	2
Python	47.10%	65
Racket	0.72%	1
Reason	2.17%	3
Ruby	11.59%	16
Rust	12.32%	17
Scala	13.04%	18
Scheme	3.62%	5
Solidity	0.00%	0
SuperCollider	0.00%	0
Swift	4.35%	6
TeX	10.14%	14
TypeScript	31.16%	43
Vim script	0.00%	0
Zig	0.00%	0
Other (please specify)	7.25%	10
Total Respondents: 138		

Q66 Where do you live?

Answered: 131 Skipped: 396





Congo
{Democratic...

Costa Rica

Croatia

Cuba

Cyprus

Czech Republic

Denmark

Djibouti

Dominica

Dominican
Republic

East Timor

Ecuador

Egypt

El Salvador

Equatorial
Guinea

Eritrea

Estonia

Ethiopia

Fiji

Finland

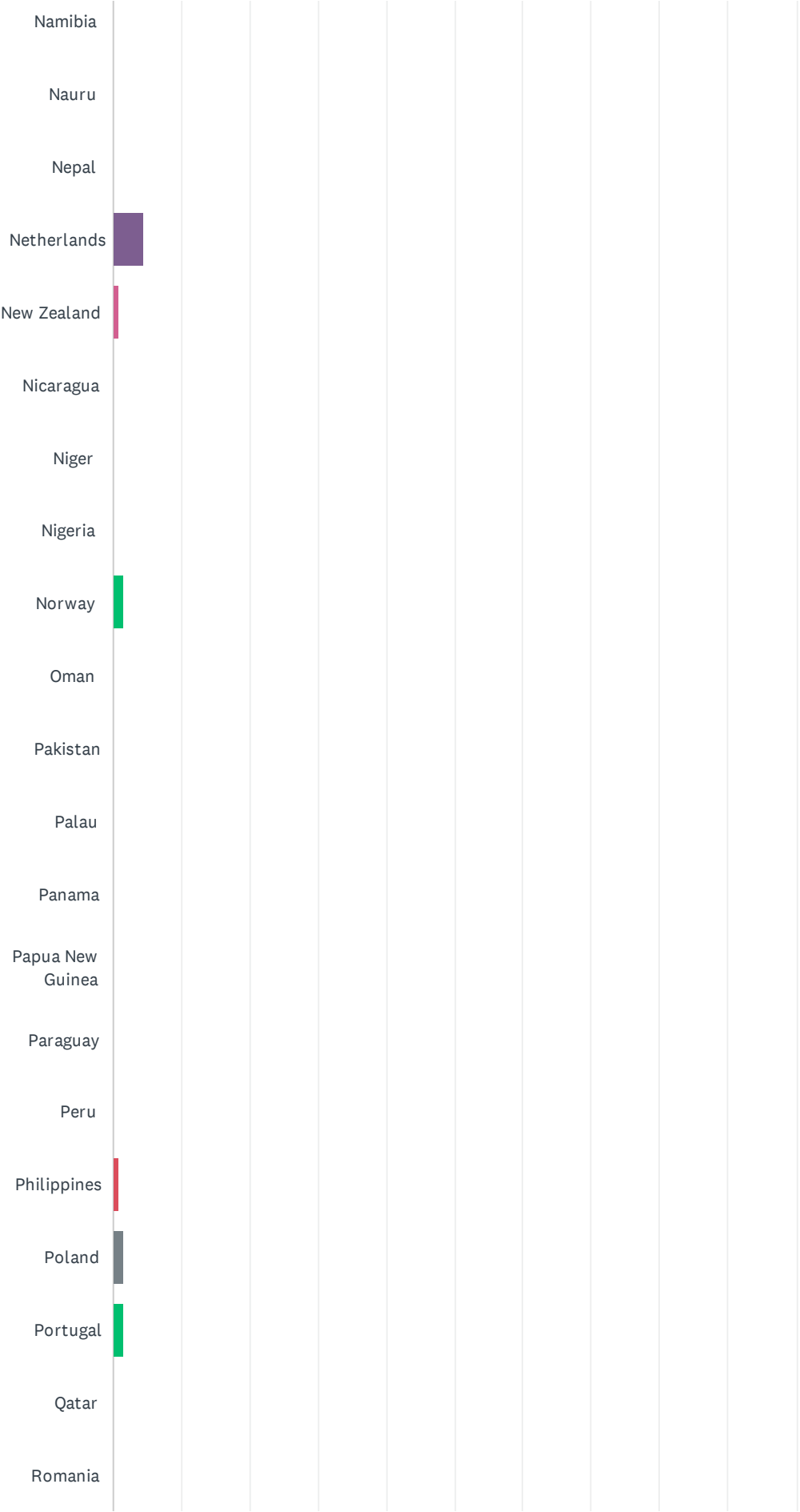
France



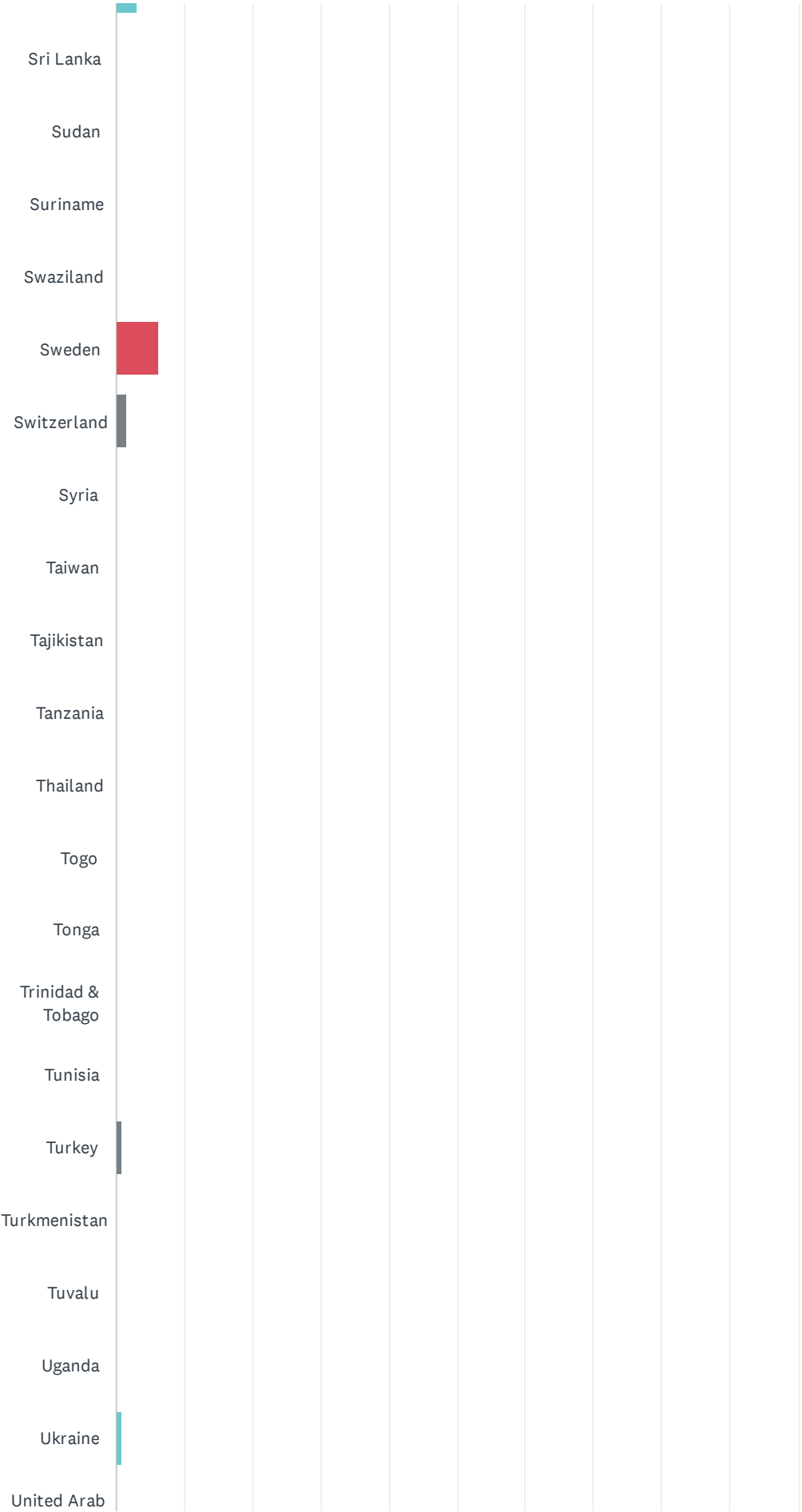


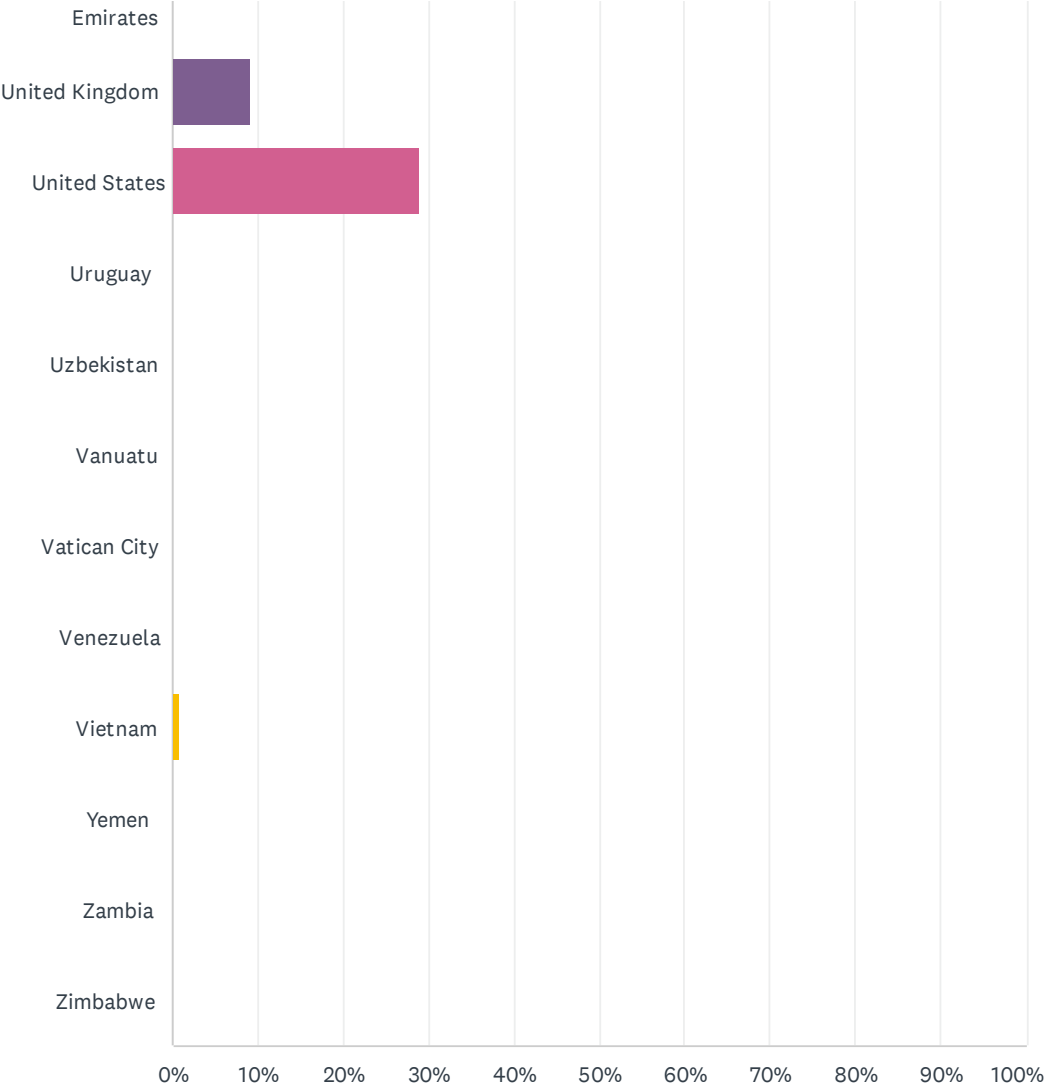


Lithuania
Luxembourg
Macedonia
Madagascar
Malawi
Malaysia
Maldives
Mali
Malta
Marshall Islands
Mauritania
Mauritius
Mexico
Micronesia
Moldova
Monaco
Mongolia
Montenegro
Morocco
Mozambique
Myanmar, {Burma}









ANSWER CHOICES	RESPONSES	
Afghanistan	0.00%	0
Albania	0.00%	0
Algeria	0.00%	0
Andorra	0.00%	0
Angola	0.00%	0
Antigua & Deps	0.00%	0
Argentina	0.76%	1
Armenia	0.00%	0
Australia	3.05%	4
Austria	0.76%	1
Azerbaijan	0.00%	0
Bahamas	0.00%	0
Bahrain	0.00%	0
Bangladesh	0.00%	0
Barbados	0.00%	0
Belarus	0.00%	0
Belgium	0.00%	0
Belize	0.00%	0
Benin	0.00%	0
Bhutan	0.00%	0
Bolivia	0.00%	0
Bosnia Herzegovina	0.00%	0
Botswana	0.00%	0
Brazil	2.29%	3
Brunei	0.00%	0
Bulgaria	0.76%	1
Burkina	0.00%	0
Burundi	0.00%	0
Cambodia	0.00%	0
Cameroon	0.00%	0
Canada	4.58%	6
Cape Verde	0.00%	0

Central African Rep	0.00%	0
Chad	0.00%	0
Chile	0.00%	0
China	0.00%	0
Colombia	0.76%	1
Comoros	0.00%	0
Congo	0.00%	0
Congo {Democratic Rep}	0.00%	0
Costa Rica	0.00%	0
Croatia	0.00%	0
Cuba	0.00%	0
Cyprus	0.00%	0
Czech Republic	0.00%	0
Denmark	0.76%	1
Djibouti	0.00%	0
Dominica	0.00%	0
Dominican Republic	0.00%	0
East Timor	0.00%	0
Ecuador	0.00%	0
Egypt	0.76%	1
El Salvador	0.00%	0
Equatorial Guinea	0.00%	0
Eritrea	0.00%	0
Estonia	0.76%	1
Ethiopia	0.00%	0
Fiji	0.00%	0
Finland	1.53%	2
France	2.29%	3
Gabon	0.00%	0
Gambia	0.00%	0
Georgia	0.00%	0
Germany	6.11%	8
Ghana	0.00%	0
Greece	0.00%	0

Grenada	0.00%	0
Guatemala	0.00%	0
Guinea	0.00%	0
Guinea-Bissau	0.00%	0
Guyana	0.00%	0
Haiti	0.00%	0
Honduras	0.00%	0
Hungary	0.00%	0
Iceland	0.00%	0
India	3.05%	4
Indonesia	0.76%	1
Iran	0.00%	0
Iraq	0.00%	0
Ireland {Republic}	0.00%	0
Israel	0.00%	0
Italy	2.29%	3
Ivory Coast	0.00%	0
Jamaica	0.00%	0
Japan	1.53%	2
Jordan	0.00%	0
Kazakhstan	0.00%	0
Kenya	0.76%	1
Kiribati	0.00%	0
Korea North	0.00%	0
Korea South	0.00%	0
Kosovo	0.00%	0
Kuwait	0.00%	0
Kyrgyzstan	0.00%	0
Laos	0.00%	0
Latvia	0.00%	0
Lebanon	0.00%	0
Lesotho	0.00%	0
Liberia	0.00%	0

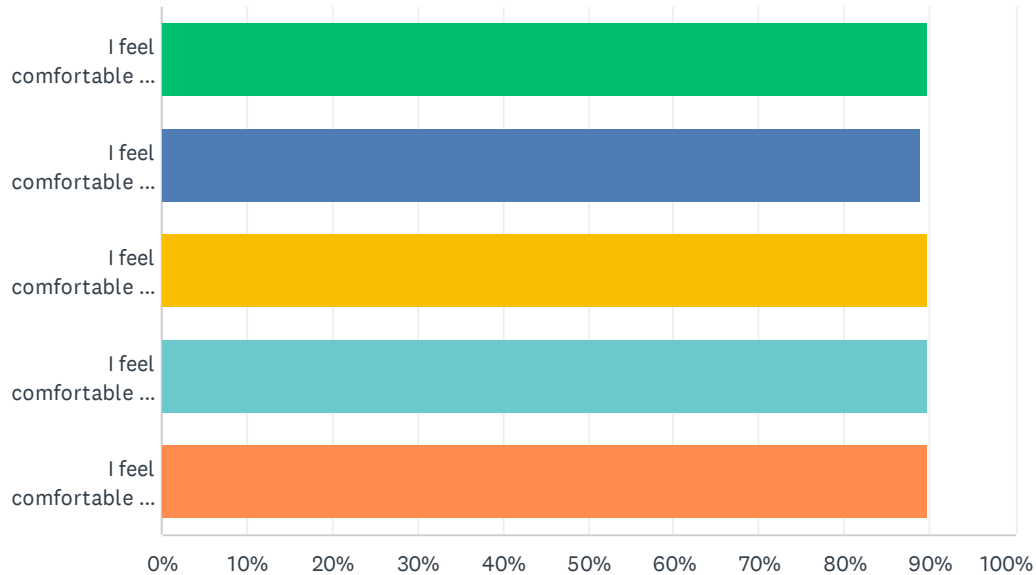
PureScript Survey 2023	SurveyMonkey	
Libya	0.00%	0
Liechtenstein	0.00%	0
Lithuania	0.00%	0
Luxembourg	0.00%	0
Macedonia	0.00%	0
Madagascar	0.00%	0
Malawi	0.00%	0
Malaysia	0.00%	0
Maldives	0.00%	0
Mali	0.00%	0
Malta	0.00%	0
Marshall Islands	0.00%	0
Mauritania	0.00%	0
Mauritius	0.00%	0
Mexico	0.76%	1
Micronesia	0.00%	0
Moldova	0.00%	0
Monaco	0.00%	0
Mongolia	0.00%	0
Montenegro	0.00%	0
Morocco	0.00%	0
Mozambique	0.00%	0
Myanmar, {Burma}	0.00%	0
Namibia	0.00%	0
Nauru	0.00%	0
Nepal	0.00%	0
Netherlands	4.58%	6
New Zealand	0.76%	1
Nicaragua	0.00%	0
Niger	0.00%	0
Nigeria	0.00%	0
Norway	1.53%	2
Oman	0.00%	0

Pakistan	0.00%	0
Palau	0.00%	0
Panama	0.00%	0
Papua New Guinea	0.00%	0
Paraguay	0.00%	0
Peru	0.00%	0
Philippines	0.76%	1
Poland	1.53%	2
Portugal	1.53%	2
Qatar	0.00%	0
Romania	0.00%	0
Russian Federation	1.53%	2
Rwanda	0.00%	0
St Kitts & Nevis	0.00%	0
St Lucia	0.00%	0
Saint Vincent & the Grenadines	0.00%	0
Samoa	0.00%	0
San Marino	0.00%	0
Sao Tome & Principe	0.00%	0
Saudi Arabia	0.00%	0
Senegal	0.00%	0
Serbia	0.00%	0
Seychelles	0.00%	0
Sierra Leone	0.00%	0
Singapore	0.76%	1
Slovakia	0.76%	1
Slovenia	0.00%	0
Solomon Islands	0.00%	0
Somalia	0.00%	0
South Africa	0.76%	1
South Sudan	0.00%	0
Spain	3.05%	4
Sri Lanka	0.00%	0

PureScript Survey 2023	SurveyMonkey	
Sudan	0.00%	0
Suriname	0.00%	0
Swaziland	0.00%	0
Sweden	6.11%	8
Switzerland	1.53%	2
Syria	0.00%	0
Taiwan	0.00%	0
Tajikistan	0.00%	0
Tanzania	0.00%	0
Thailand	0.00%	0
Togo	0.00%	0
Tonga	0.00%	0
Trinidad & Tobago	0.00%	0
Tunisia	0.00%	0
Turkey	0.76%	1
Turkmenistan	0.00%	0
Tuvalu	0.00%	0
Uganda	0.00%	0
Ukraine	0.76%	1
United Arab Emirates	0.00%	0
United Kingdom	9.16%	12
United States	29.01%	38
Uruguay	0.00%	0
Uzbekistan	0.00%	0
Vanuatu	0.00%	0
Vatican City	0.00%	0
Venezuela	0.00%	0
Vietnam	0.76%	1
Yemen	0.00%	0
Zambia	0.00%	0
Zimbabwe	0.00%	0
TOTAL		131

Q67 In what ways are you comfortable communicating about technical topics in English?

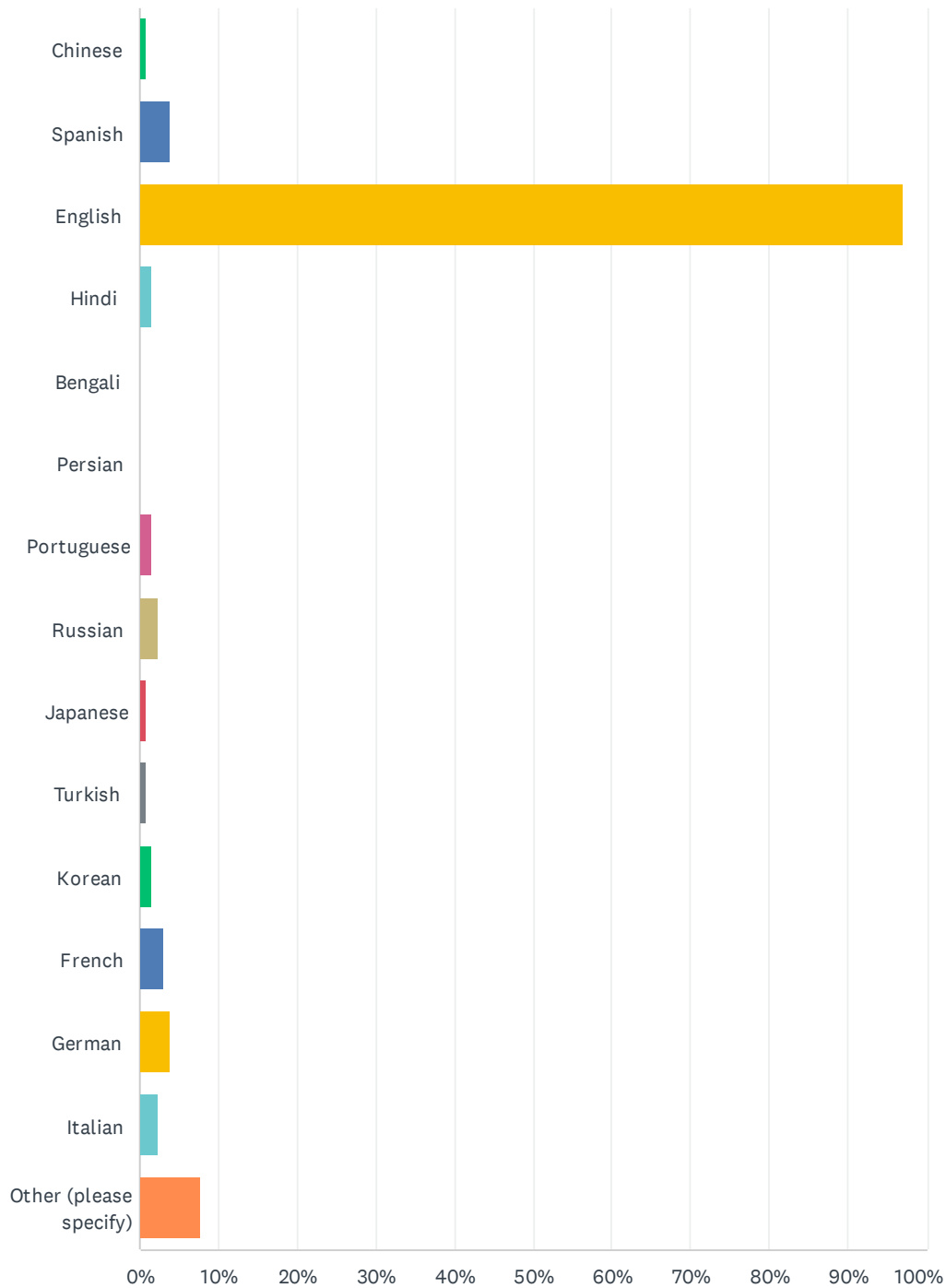
Answered: 136 Skipped: 391



ANSWER CHOICES	RESPONSES	
I feel comfortable and capable of having a spoken technical conversation in English	89.71%	122
I feel comfortable and capable of having a written technical conversation in English	88.97%	121
I feel comfortable and capable of reading technical documentation in English	89.71%	122
I feel comfortable and capable of consuming a technical talk (e.g., at a conference or meetup) in English	89.71%	122
I feel comfortable and capable of consuming a written technical educational material (e.g., technical books, blog posts, etc.) in English	89.71%	122
Total Respondents: 136		

Q68 What is/are your preferred language(s) for technical communication?

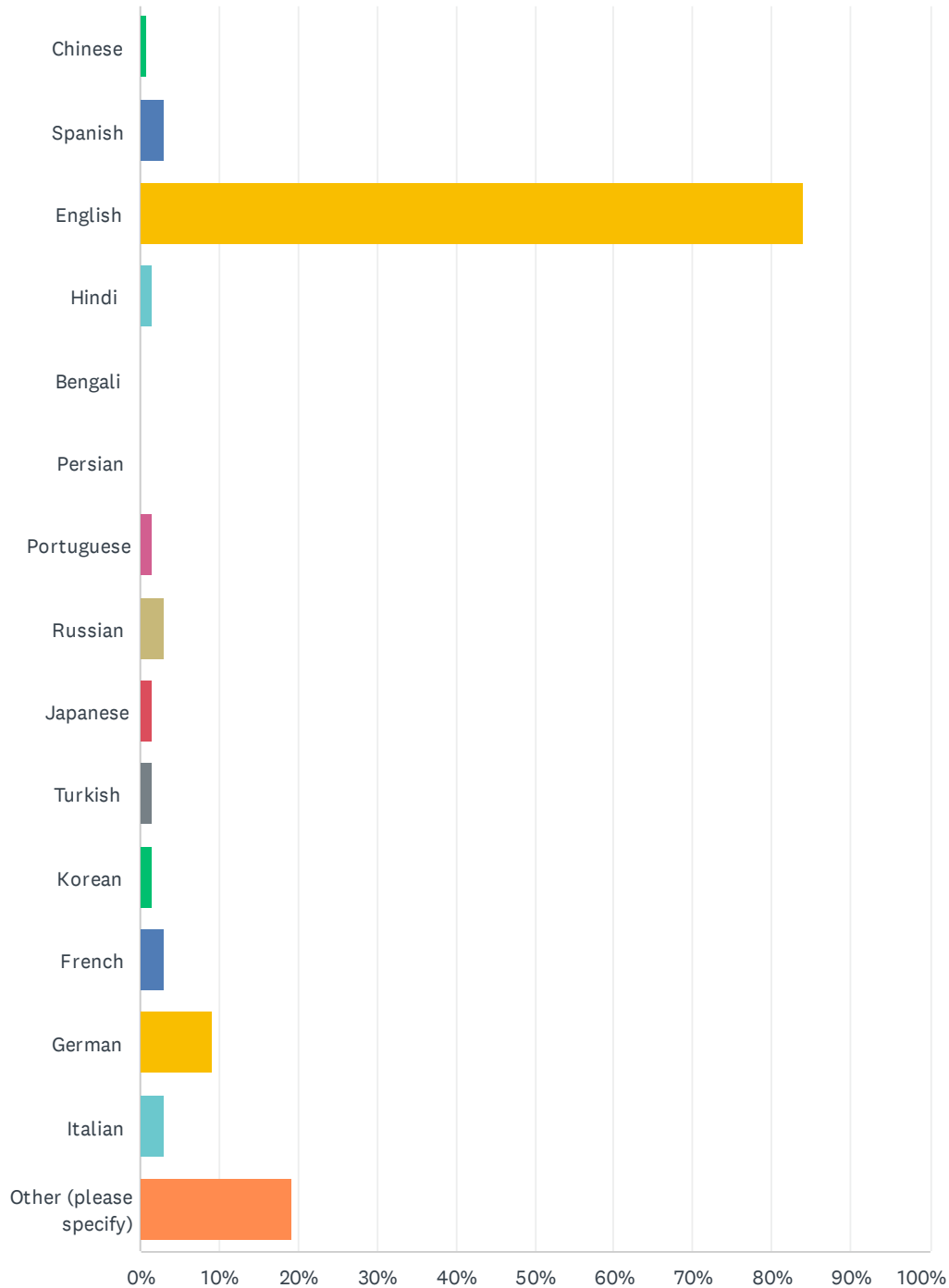
Answered: 130 Skipped: 397



ANSWER CHOICES	RESPONSES	
Chinese	0.77%	1
Spanish	3.85%	5
English	96.92%	126
Hindi	1.54%	2
Bengali	0.00%	0
Persian	0.00%	0
Portuguese	1.54%	2
Russian	2.31%	3
Japanese	0.77%	1
Turkish	0.77%	1
Korean	1.54%	2
French	3.08%	4
German	3.85%	5
Italian	2.31%	3
Other (please specify)	7.69%	10
Total Respondents: 130		

Q69 What is/are your preferred language(s) for day-to-day communication?

Answered: 131 Skipped: 396



ANSWER CHOICES	RESPONSES	
Chinese	0.76%	1
Spanish	3.05%	4
English	83.97%	110
Hindi	1.53%	2
Bengali	0.00%	0
Persian	0.00%	0
Portuguese	1.53%	2
Russian	3.05%	4
Japanese	1.53%	2
Turkish	1.53%	2
Korean	1.53%	2
French	3.05%	4
German	9.16%	12
Italian	3.05%	4
Other (please specify)	19.08%	25
Total Respondents: 131		