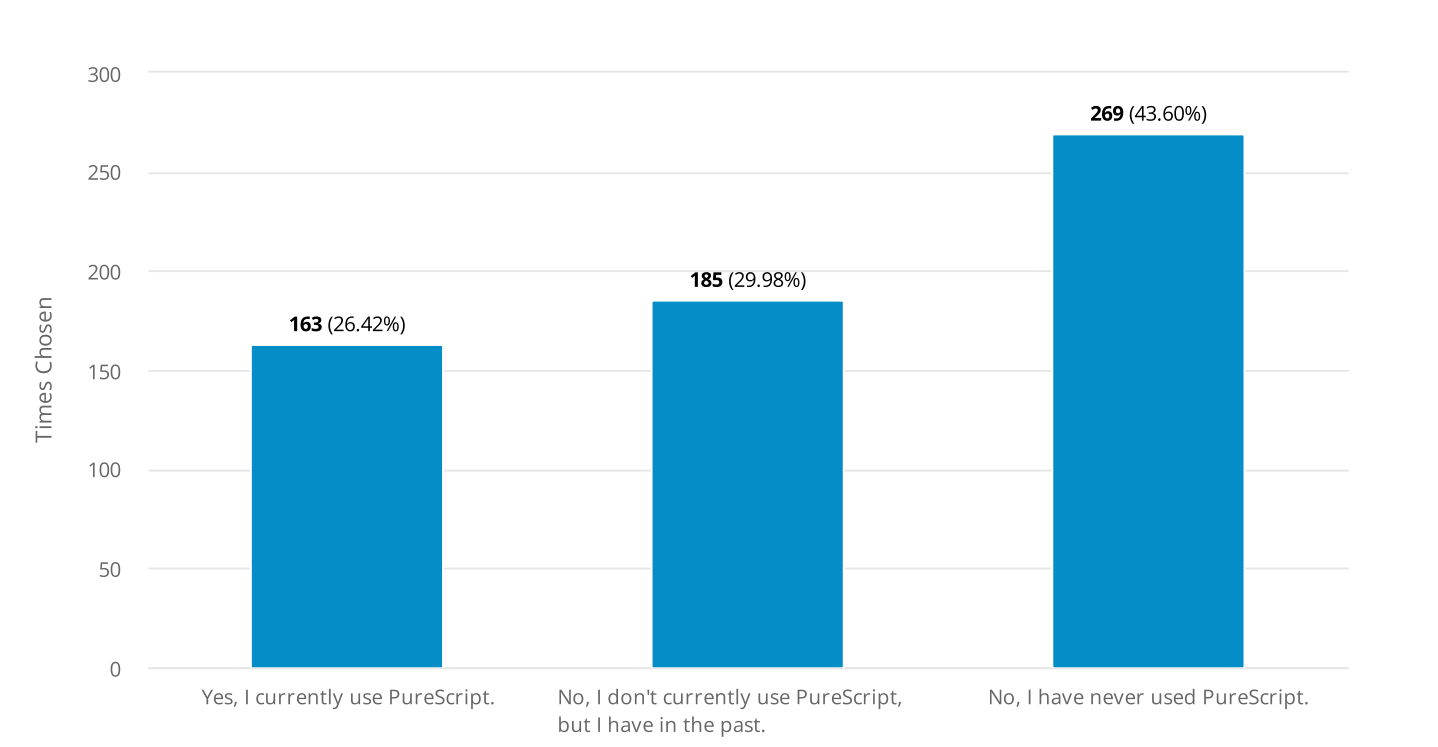


PureScript Annual Survey 2022

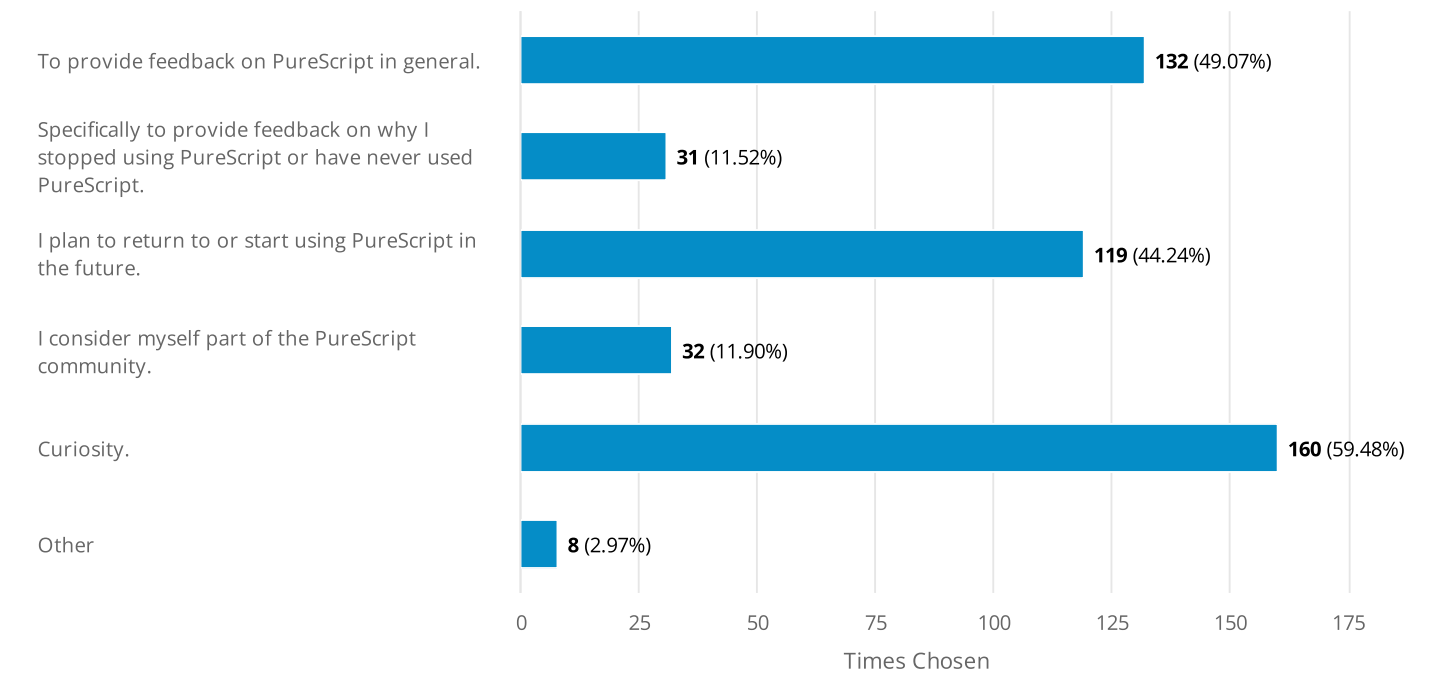
Do you use PureScript?

Number of responses: 617



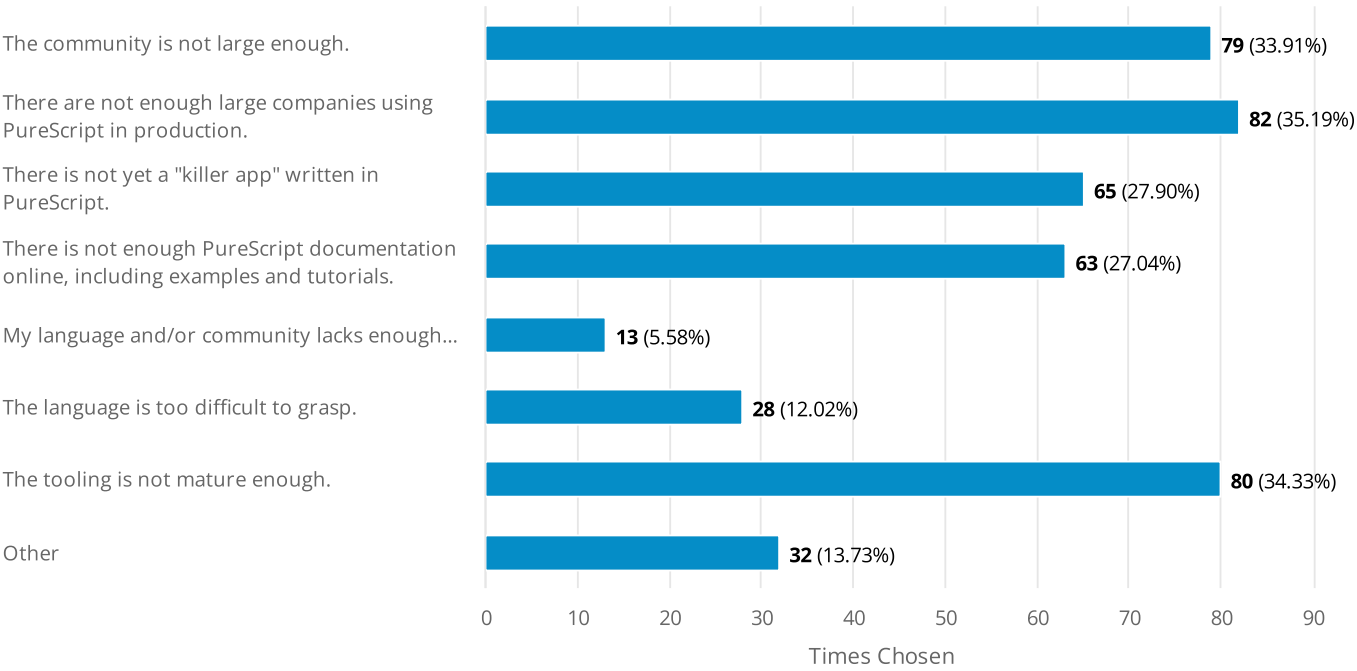
As you have indicated that you're no longer using PureScript or have never used PureScript, what prompted you to participate in this survey?

Number of responses: 269



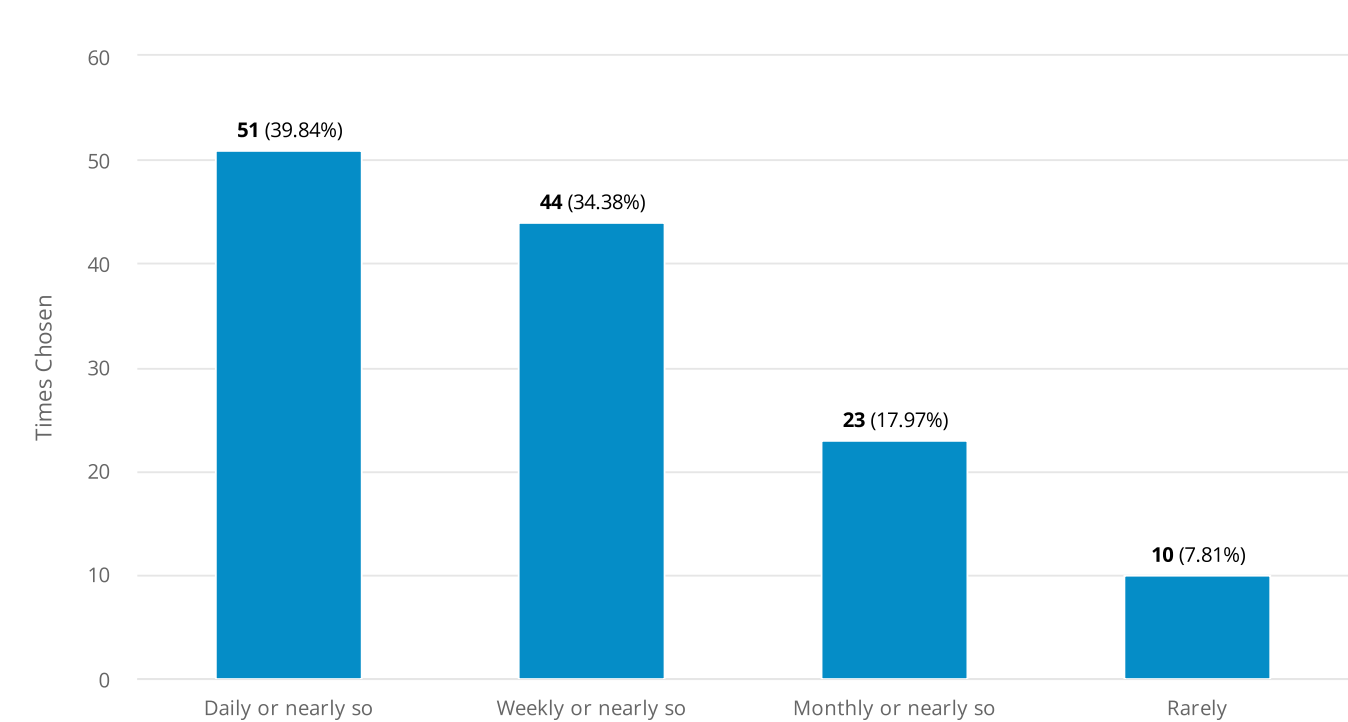
What issues in the PureScript ecosystem do you feel need the most urgent attention?

Number of responses: 233



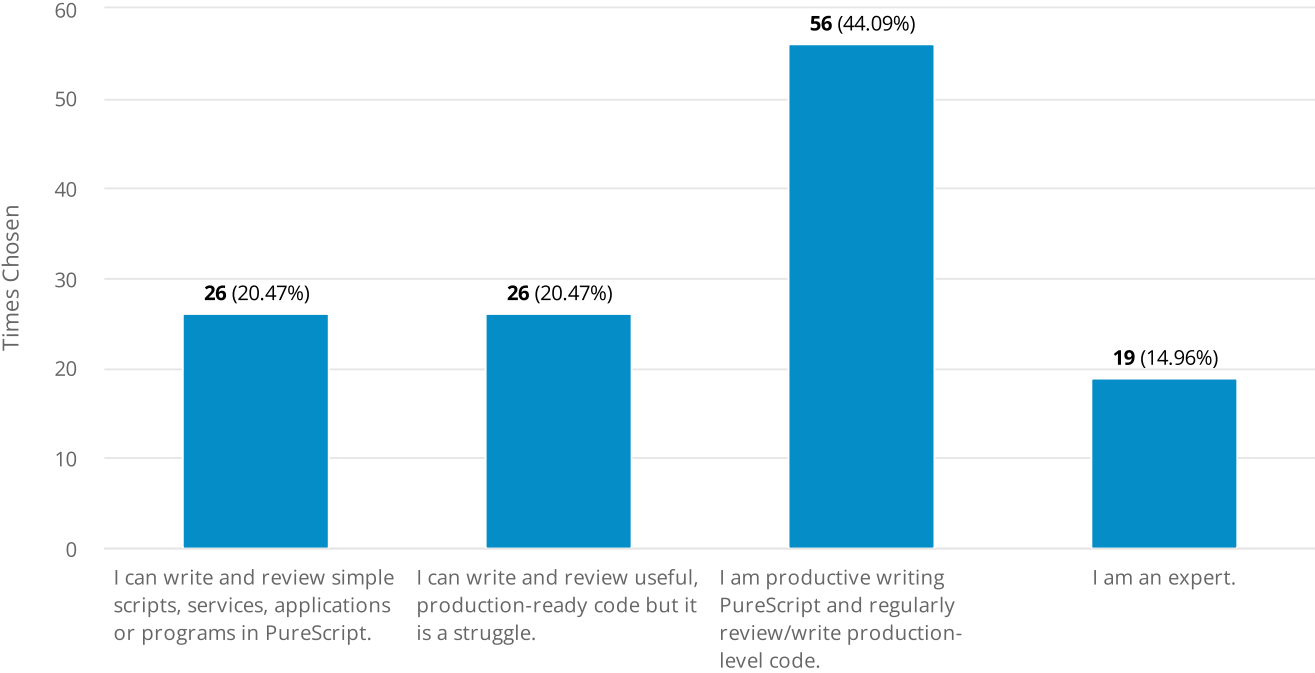
On average, how often do you use PureScript?

Number of responses: 128



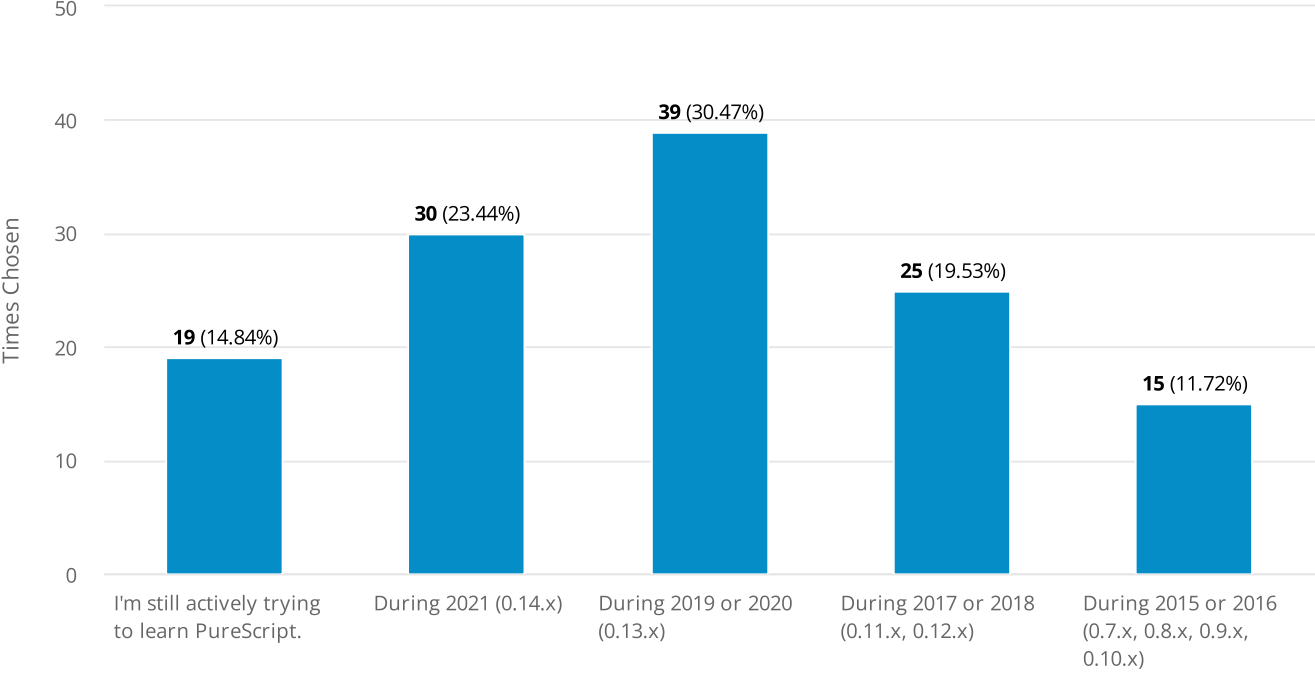
How would you rate your PureScript expertise?

Number of responses: 127



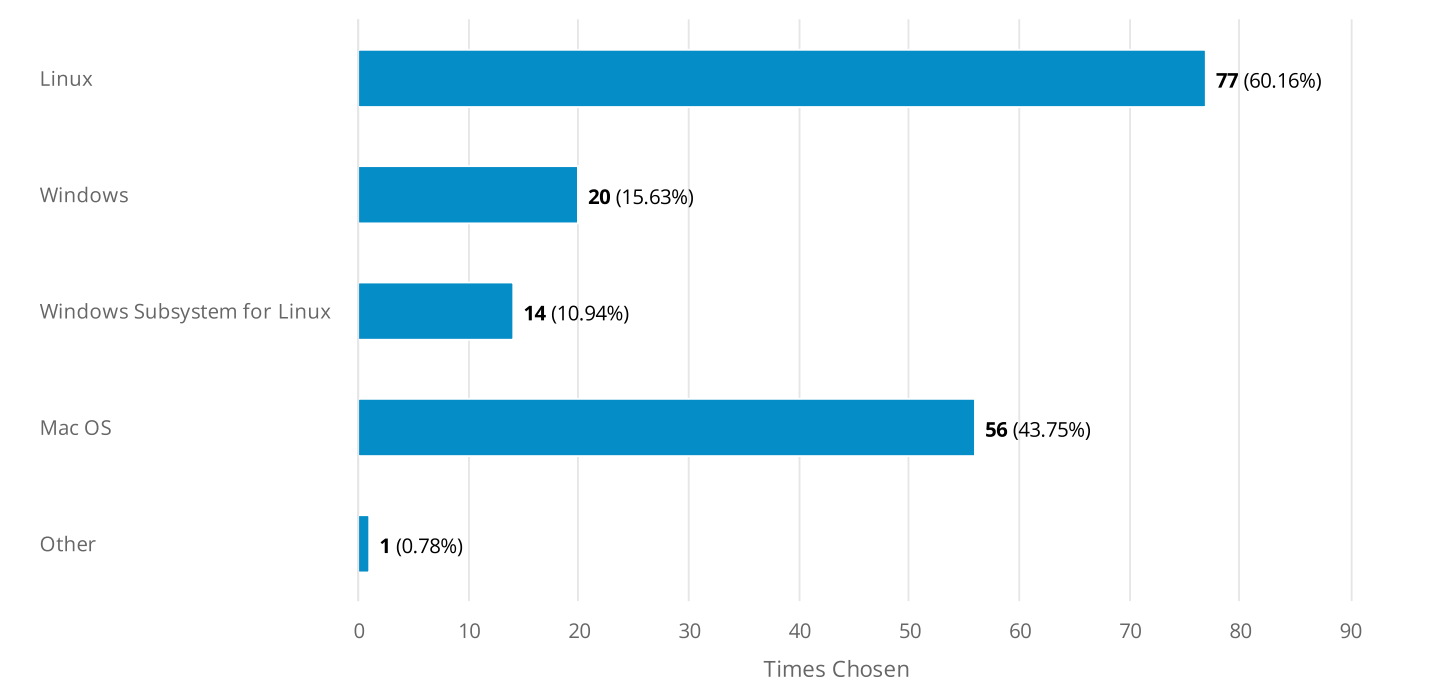
When did you learn to program in PureScript?

Number of responses: 128



Which operating systems do you use regularly for PureScript development?

Number of responses: 128

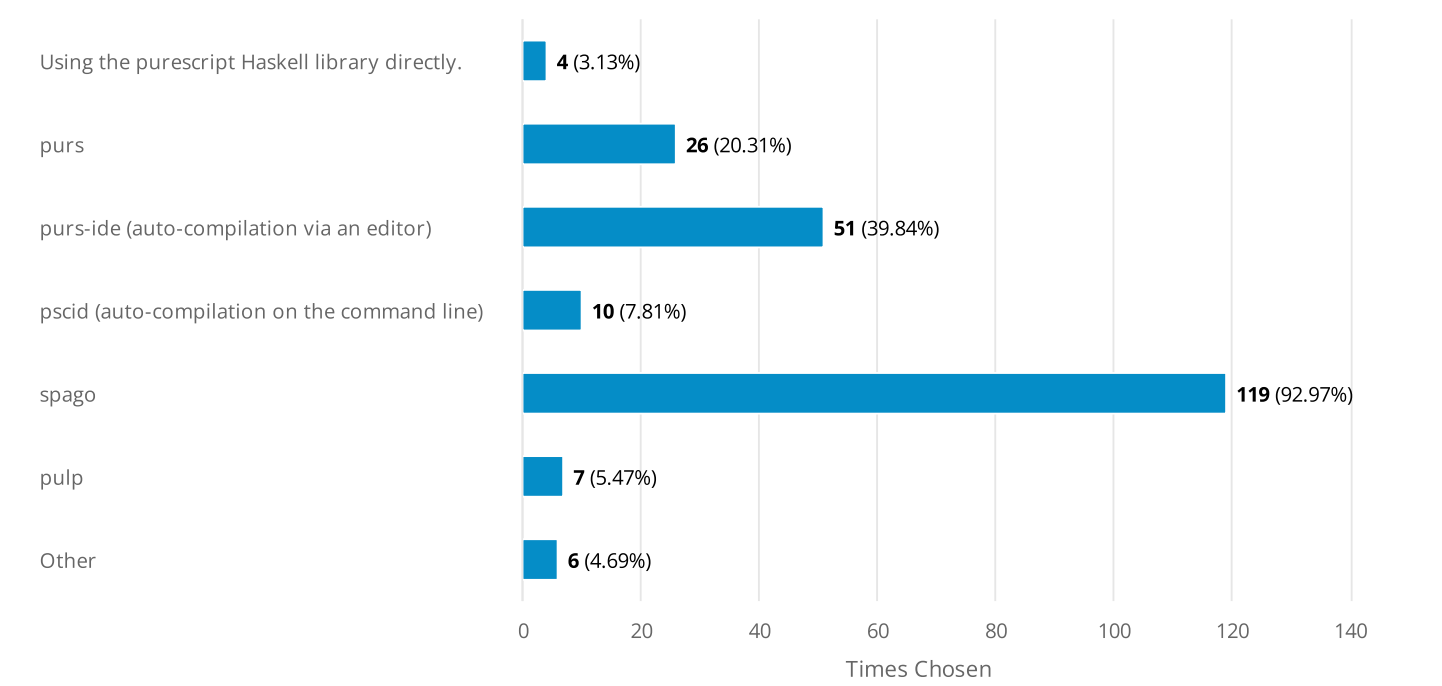


"Other" text answers:

FreeBSD

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

Number of responses: 128

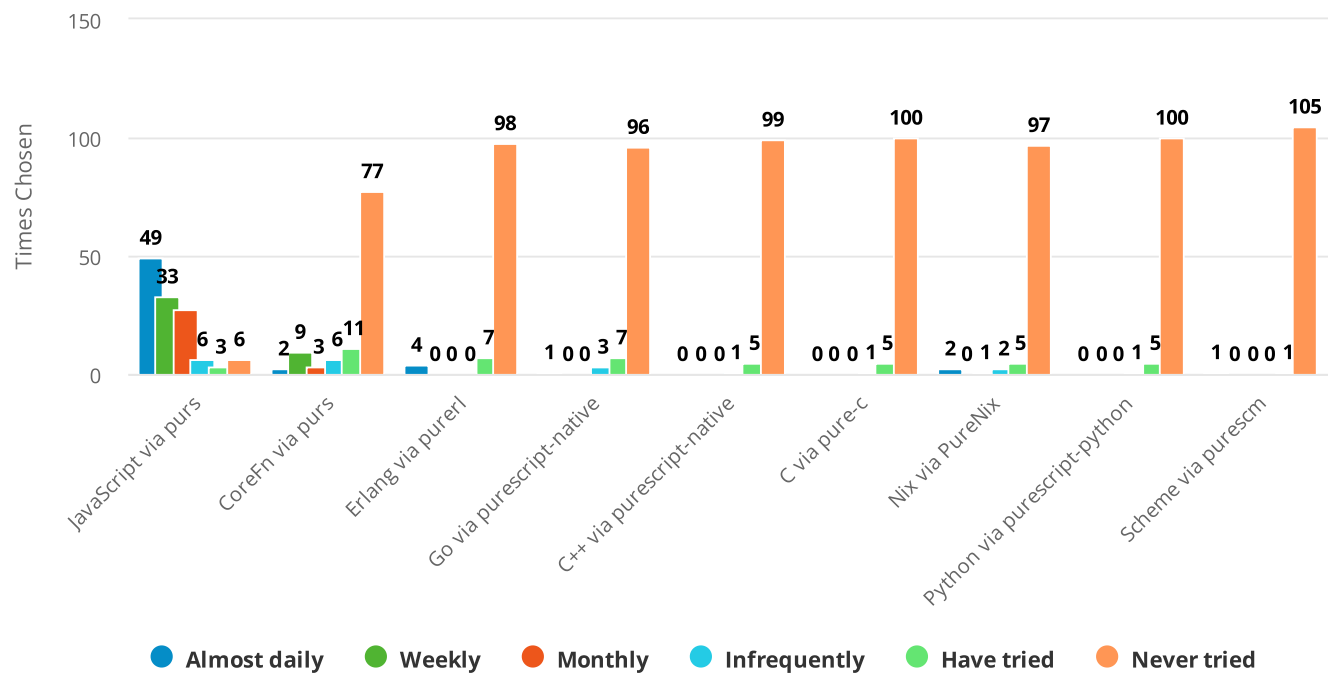


"Other" text answers:

- try.purescript.org
- bower + custom build tool
- Nix
- purs-nix
- purs-nix (<https://github.com/ursi/purs-nix>)
- purescript-tidy, purescript-language-server

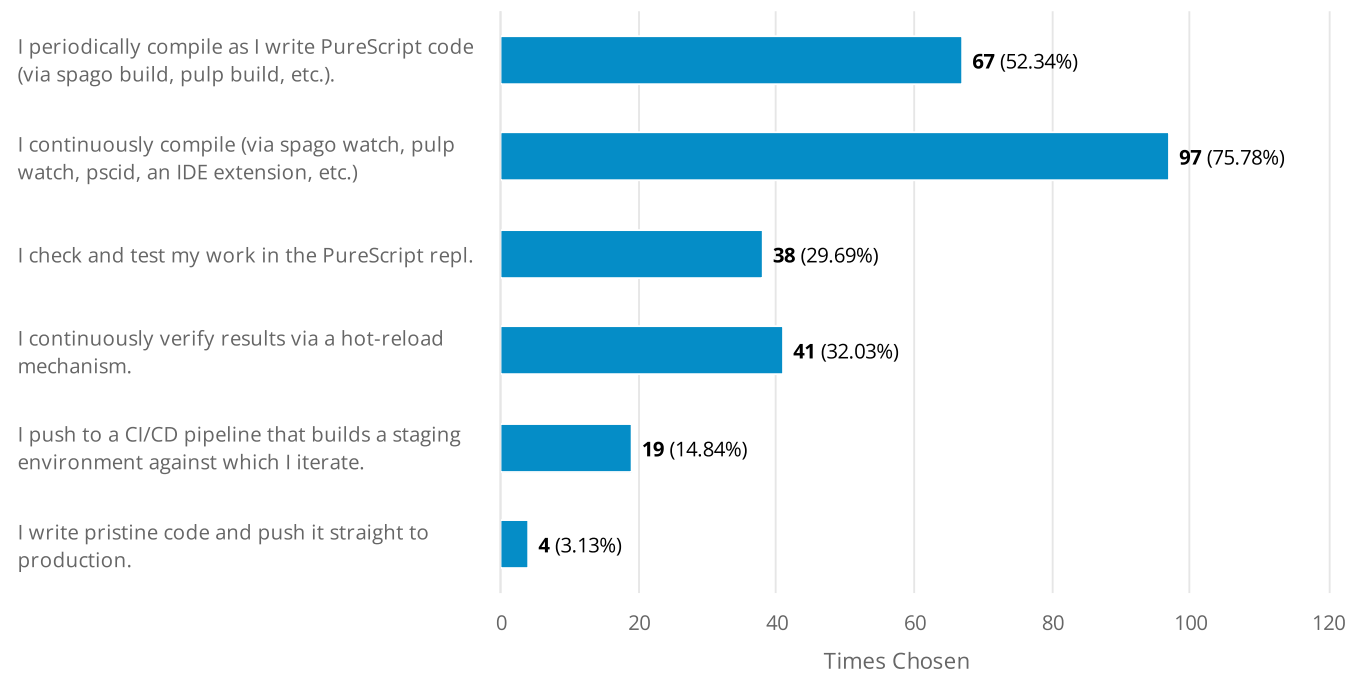
How often do you use the following output targets?

Number of responses: 126



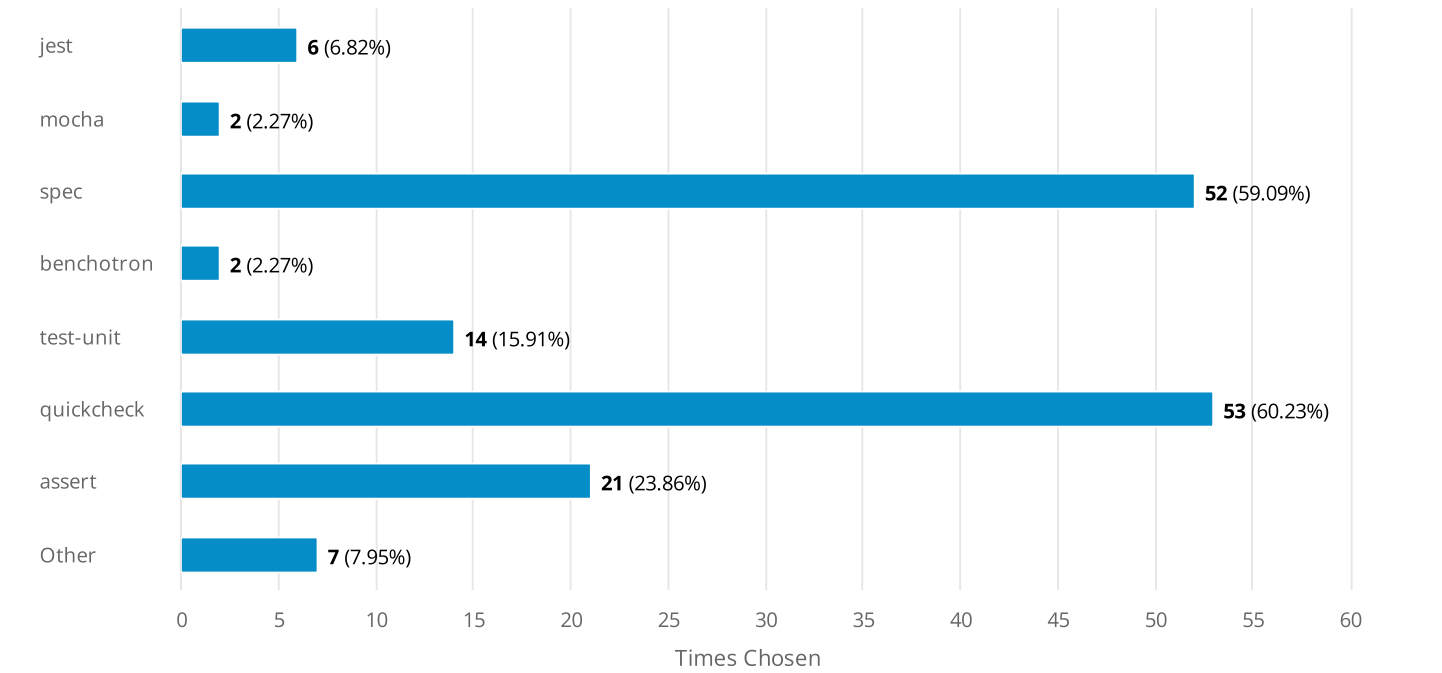
What statement below best describes the way you iterate on PureScript code as you develop?

Number of responses: 128



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

Number of responses: 88

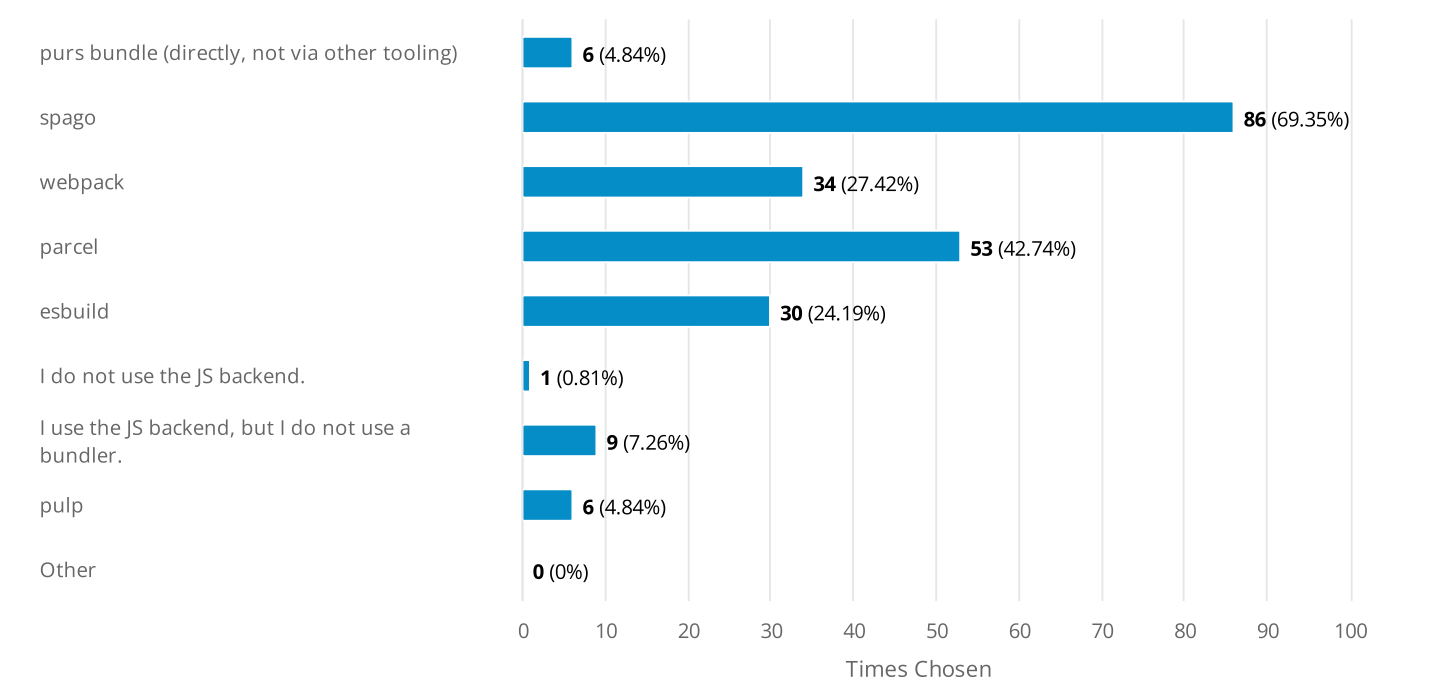


"Other" text answers:

- playwright
- eunit
- erl-test-eunit

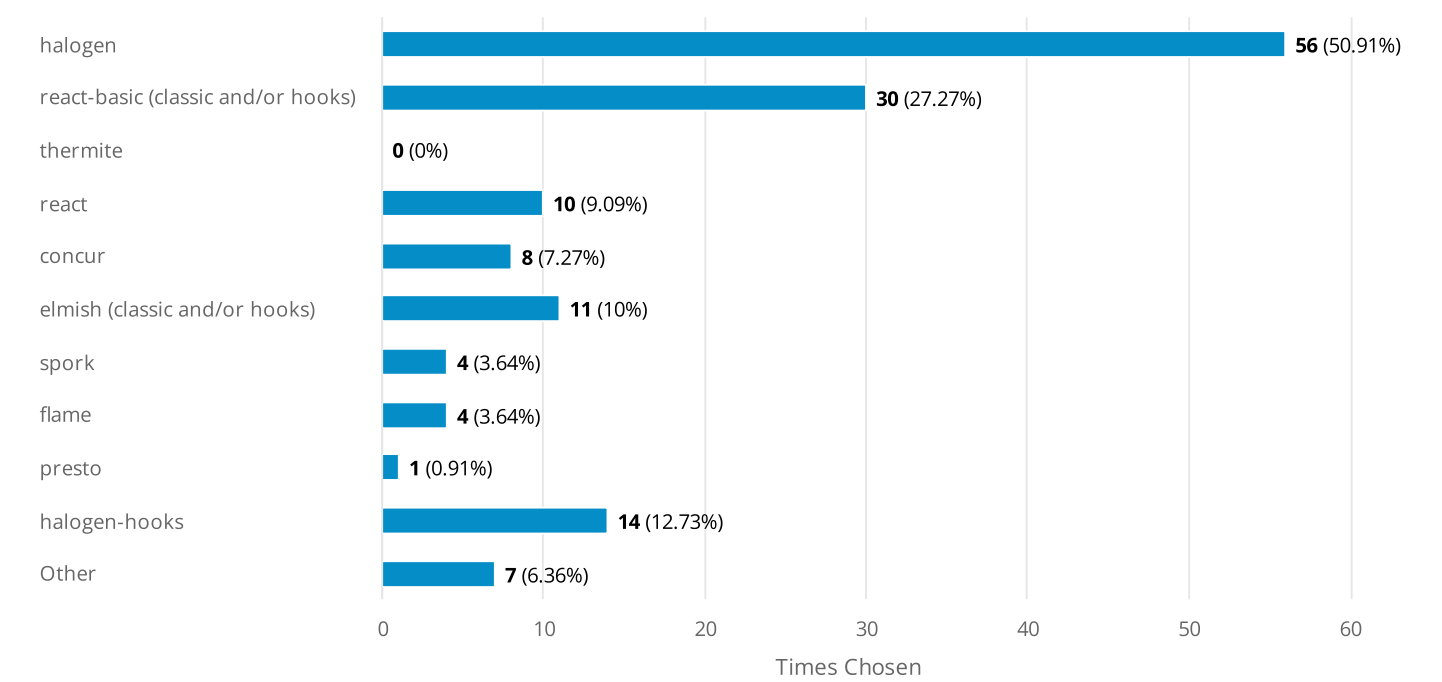
What tools do you use for bundling PureScript code?

Number of responses: 124



What PureScript frontend frameworks do you regularly use?

Number of responses: 110

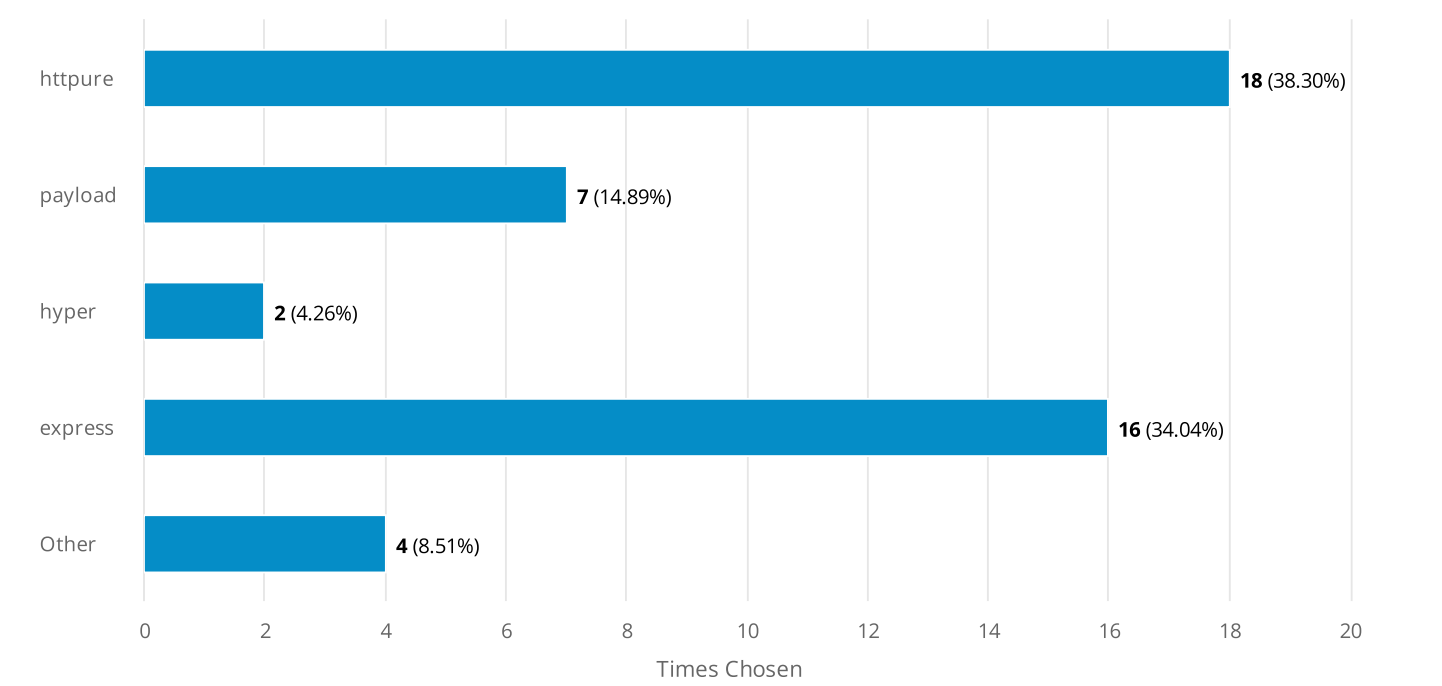


"Other" text answers:

- monarch
- halogen
- react-halo
- A number of OTP modelling (Erlang) frameworks from purerl (such as Pinto)
- elmish (a different one: <https://github.com/ursi/purescript-elmish>)

What PureScript backend frameworks do you regularly use?

Number of responses: 47



What packages, if any, do you use via the FFI?

Number of responses: 38

Text answers:

- Redis

Express

Passport

ini

jsonwebtoken

snabbdom
- WebAudio API

puppeteer

echarts

Typeorm

node-sqlite3

d3.js

react
react-calendar
calendar-link
rc-tooltip
react-confetti
react-images-viewer
react-infinite-scroller
react-list
react-select
react-range
react-sortable-hoc
chart.js
pusher-js
react-dom

React
Enzyme

material-components

Enzyme
React

amqp
@sentry/node

react-basic
react-basic-hooks
node

d3.js

node-fs
node-jwt

framer-motion
react-dnd
threejs
storybook
playwright

vega-lite

react
react-dom
recharts
date-fns

react
emotion
uuid
hicharts

yaml
mustache
knexjs
markdownIt
pug
ldapjs

d3.js

Jsbi
(Amazon) Ion-js
Web crypto api

splitbee

CodeMirror
ProseMirror
Vega

highchart
zxcvbn
react-slick
react-dropzone

copy-to-clipboard
react-infinite-scroll-component
react-datepicker
react-icons

web-audio
web-midi
vexflow

D3.js

socket.io

grapesjs

tree-sitter

ws

glmatrix

Google material components

cypress
storybook

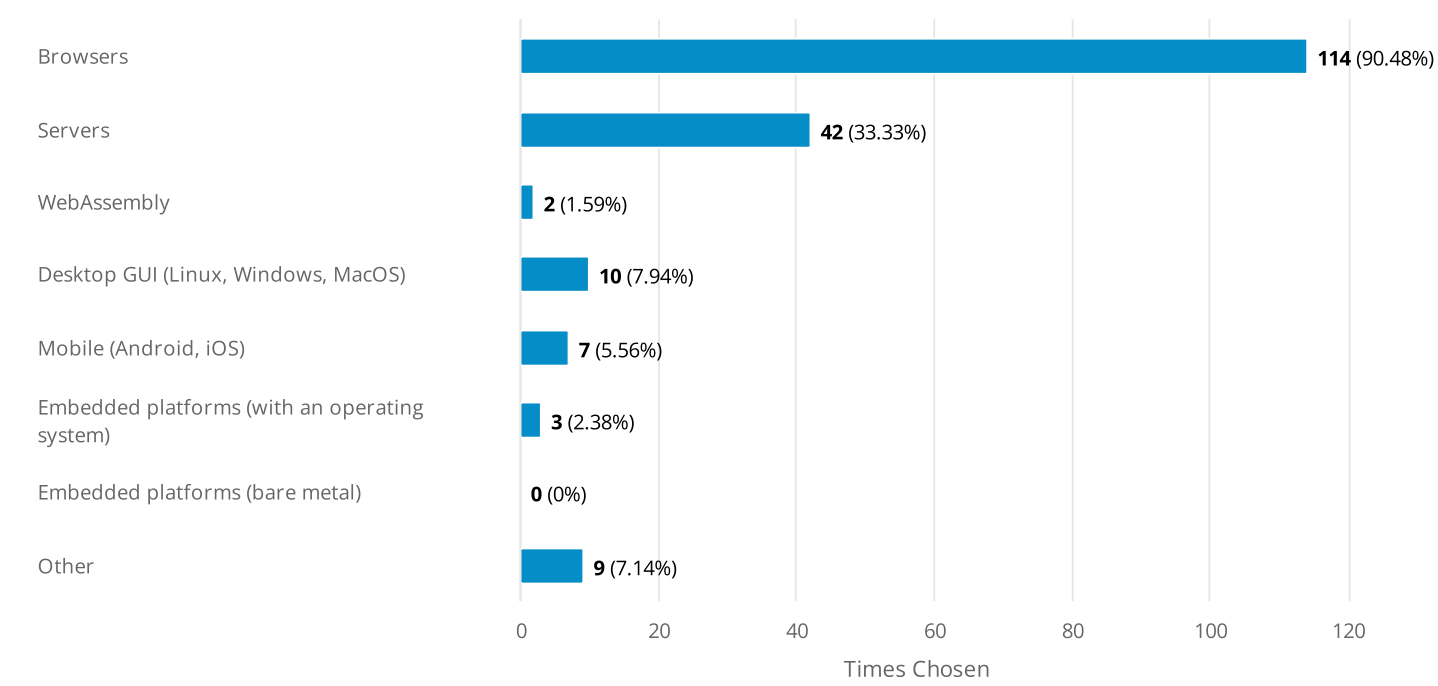
moment
big-integer
redux

octokit
fast-glob
fs-extra
semver
tar
tmp
xhr2
playwright
marked

PapaParse
MicroModal
hash-wasm

Which platforms or environments do you develop PureScript software for?

Number of responses: 126



"Other" text answers:

CLI

Cloudflare workers

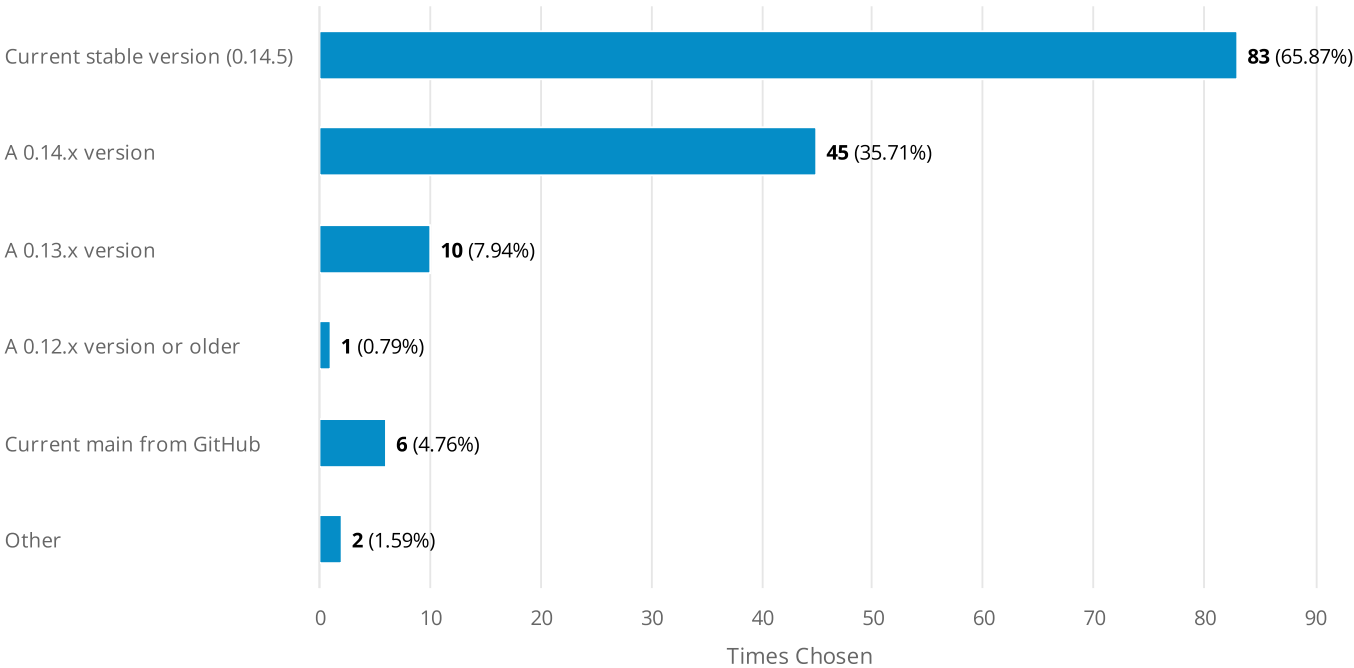
build scripts (Nix)

Tizen(Samsung OS)

own toolchain

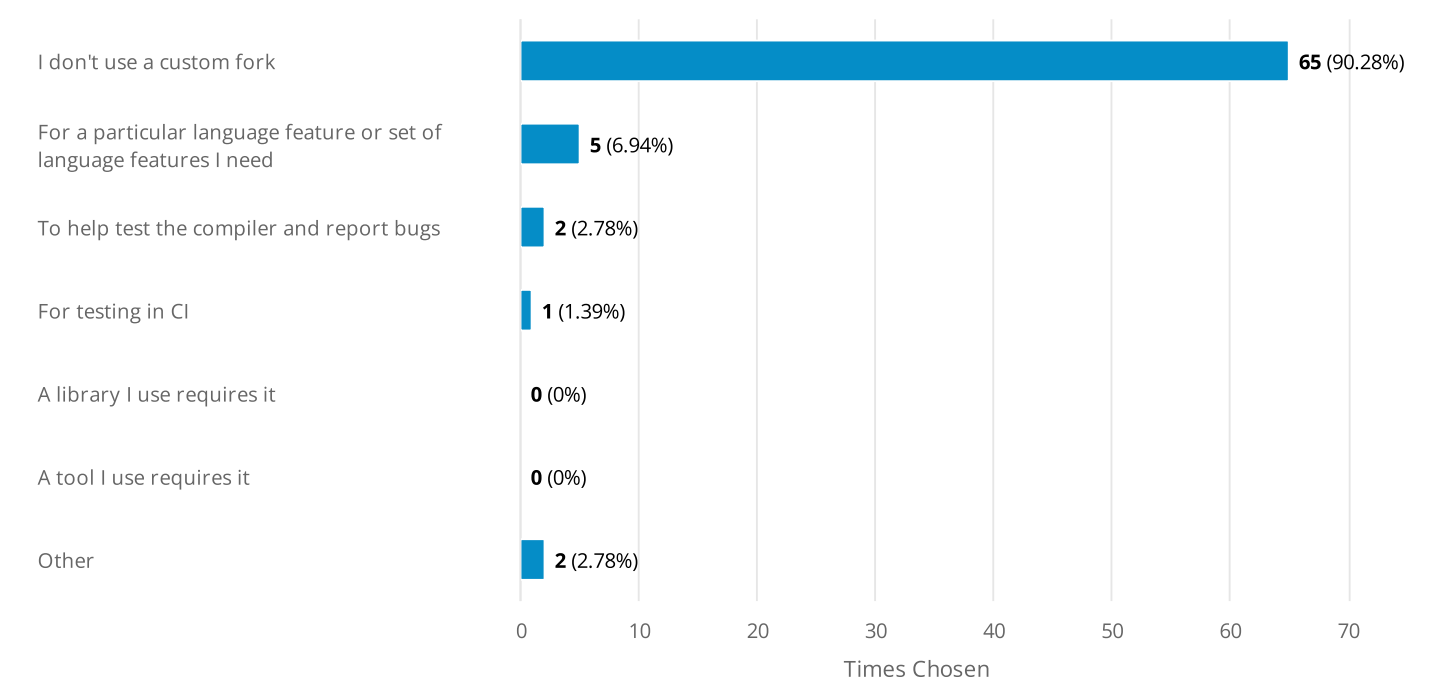
Which version(s) of PureScript do you use for local development?

Number of responses: 126



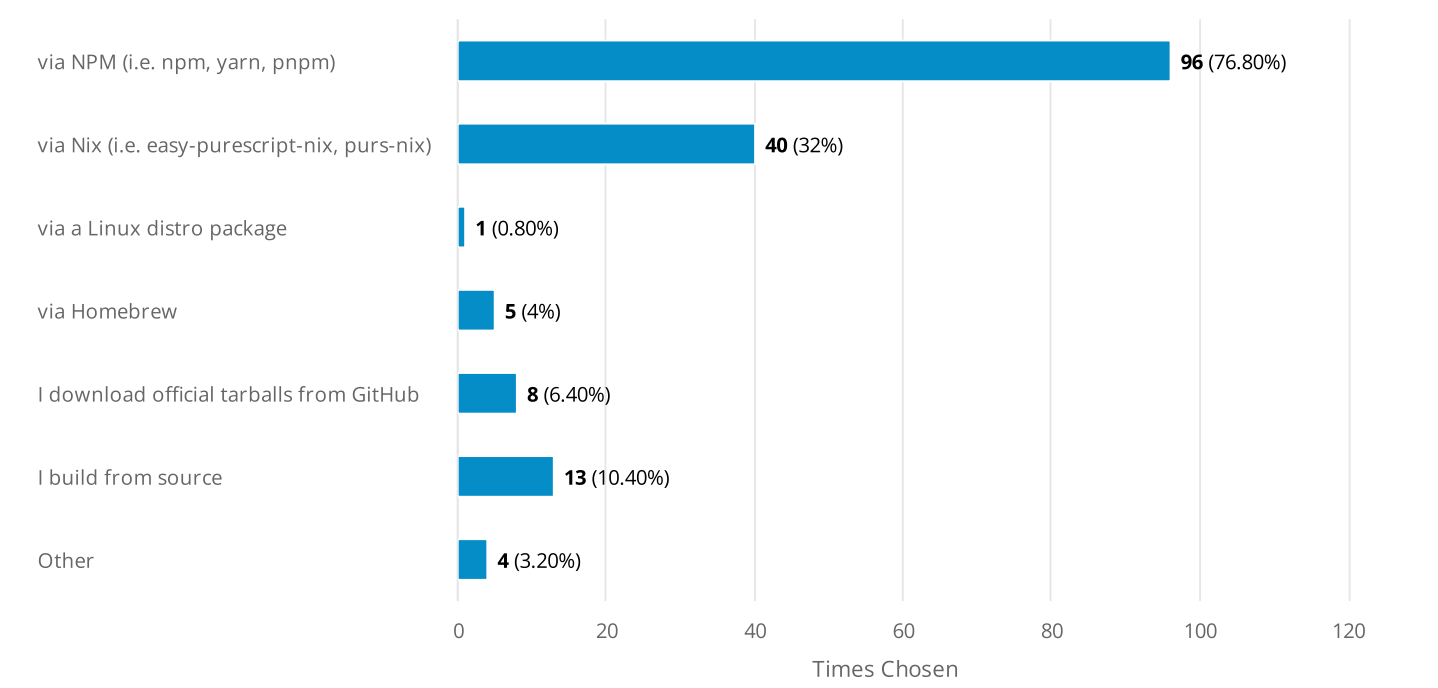
If you use a fork of the compiler, why?

Number of responses: 72



In which ways do you install PureScript?

Number of responses: 125

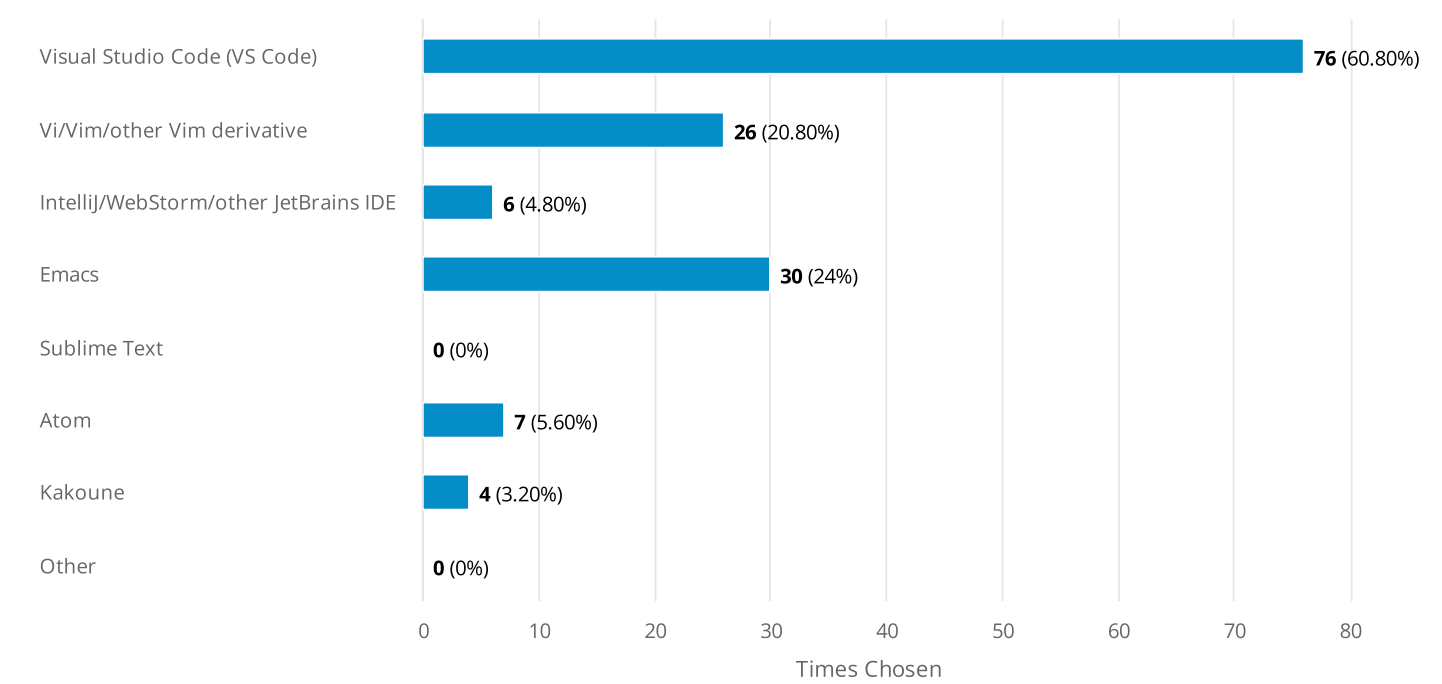


"Other" text answers:

- FreeBSD pkg
- psvm
- setup-purescript

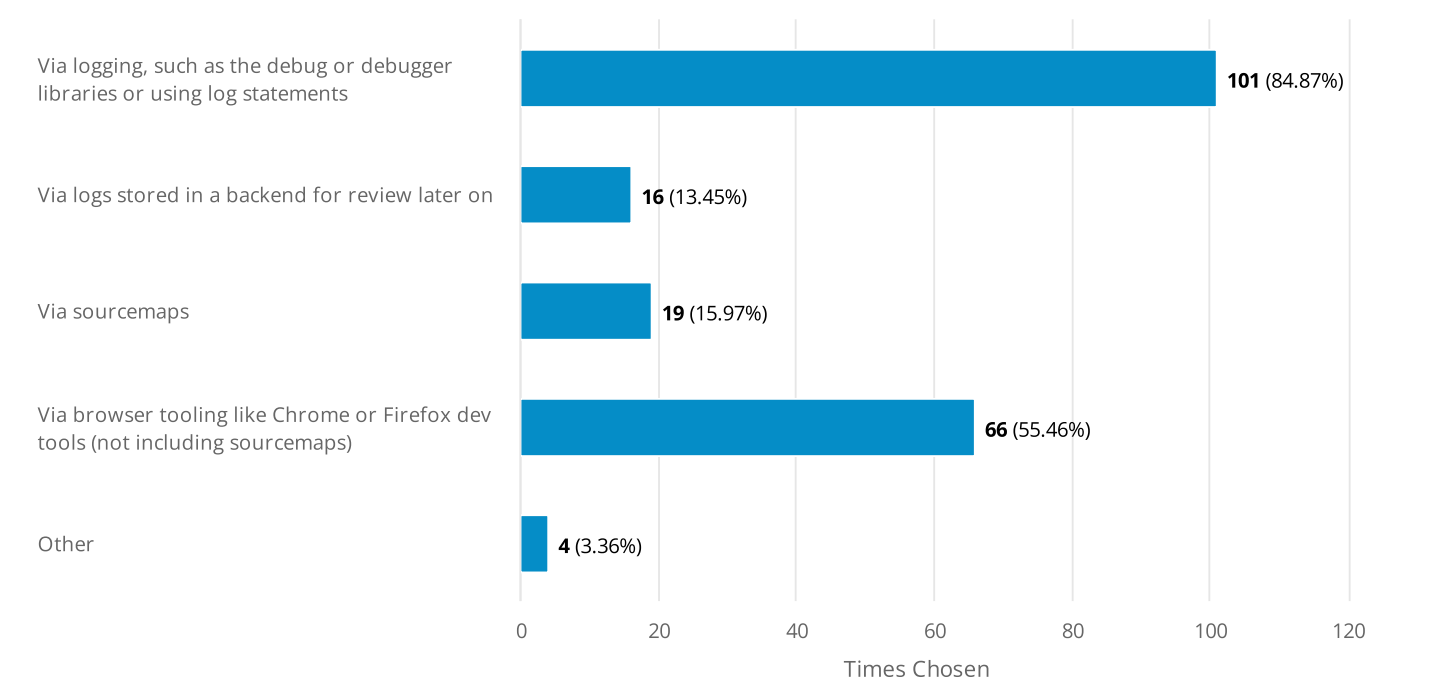
Which editor or IDE setup do you use with PureScript code on a regular basis?

Number of responses: 125



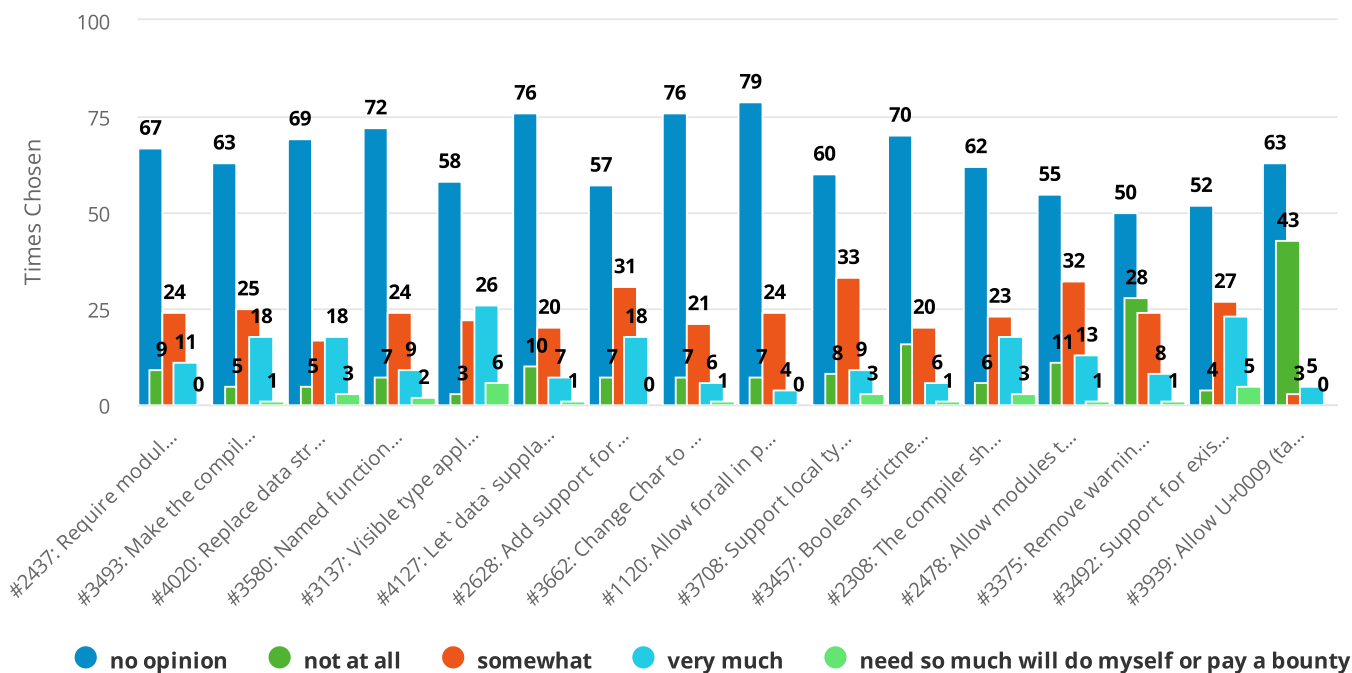
How do you debug PureScript programs?

Number of responses: 119



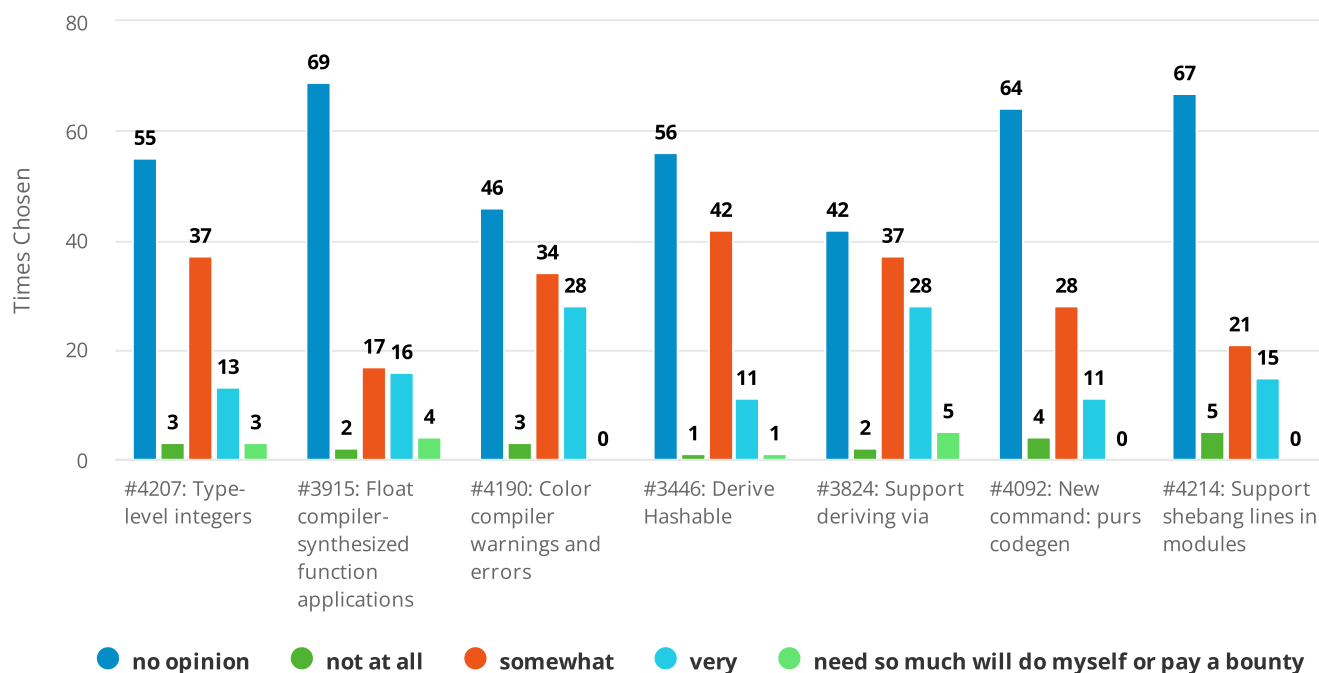
To what extent would you like to see the following compiler issues expediently resolved or implemented?

Number of responses: 119



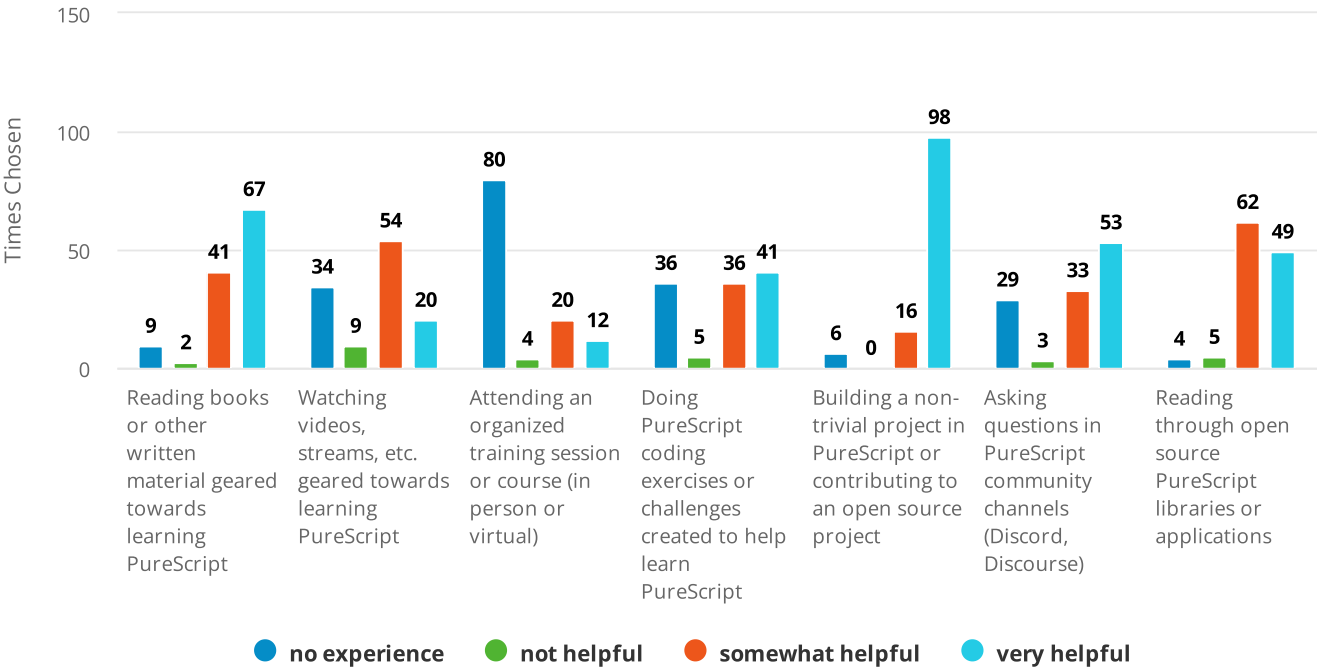
To what extent would you like to see the following compiler pull requests expediently resolved or implemented?

Number of responses: 116



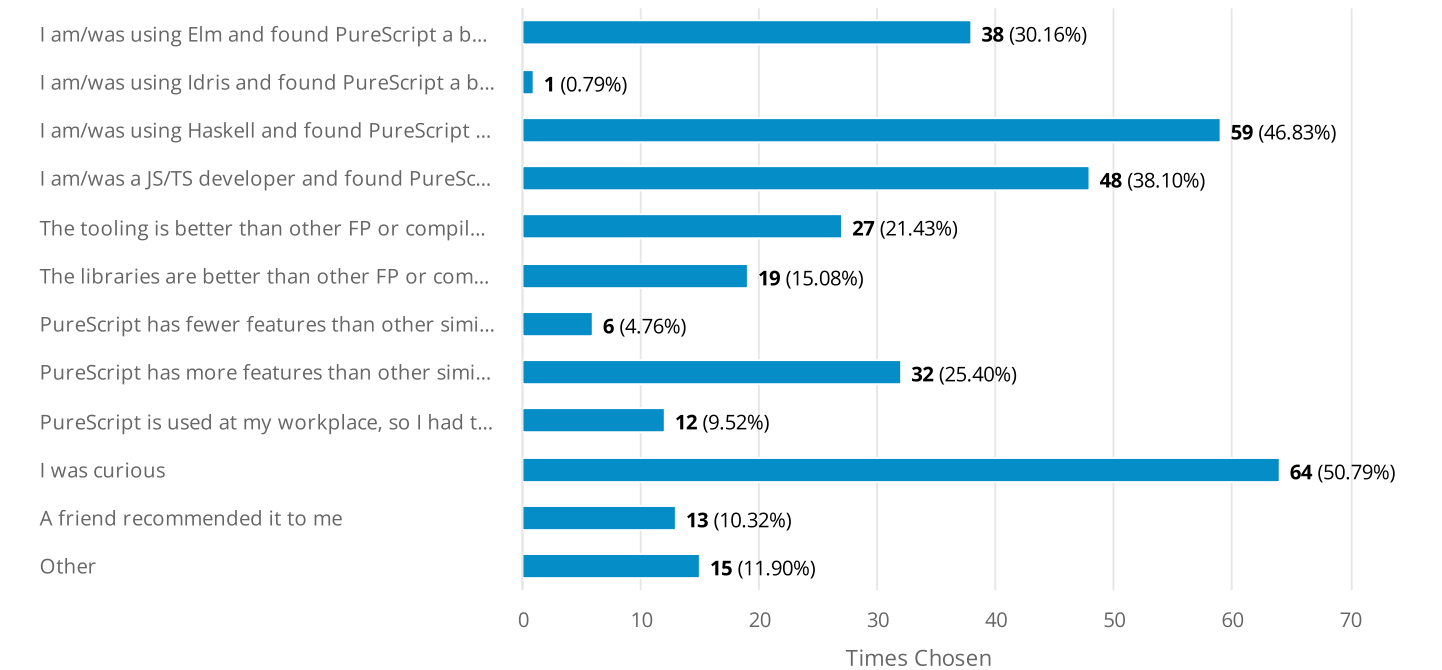
Which of the following activities do you find helpful or effective for learning PureScript or improving your PureScript skills?

Number of responses: 122



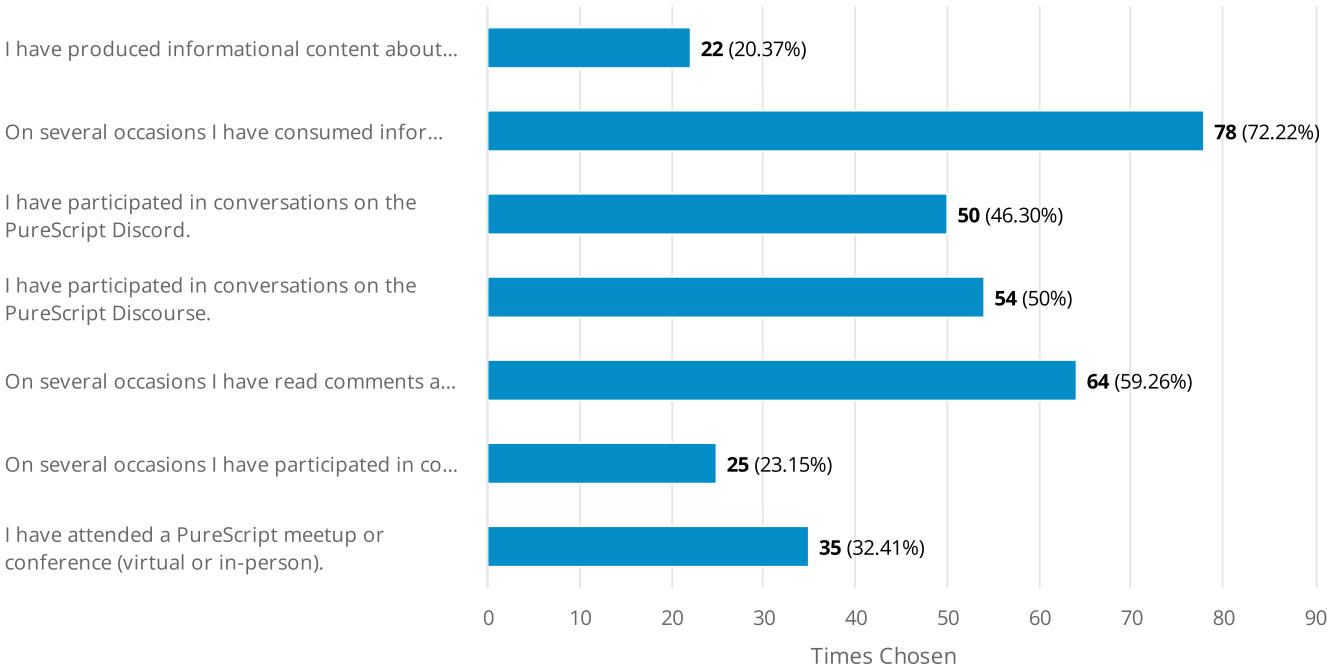
Why did you first start using PureScript?

Number of responses: 126



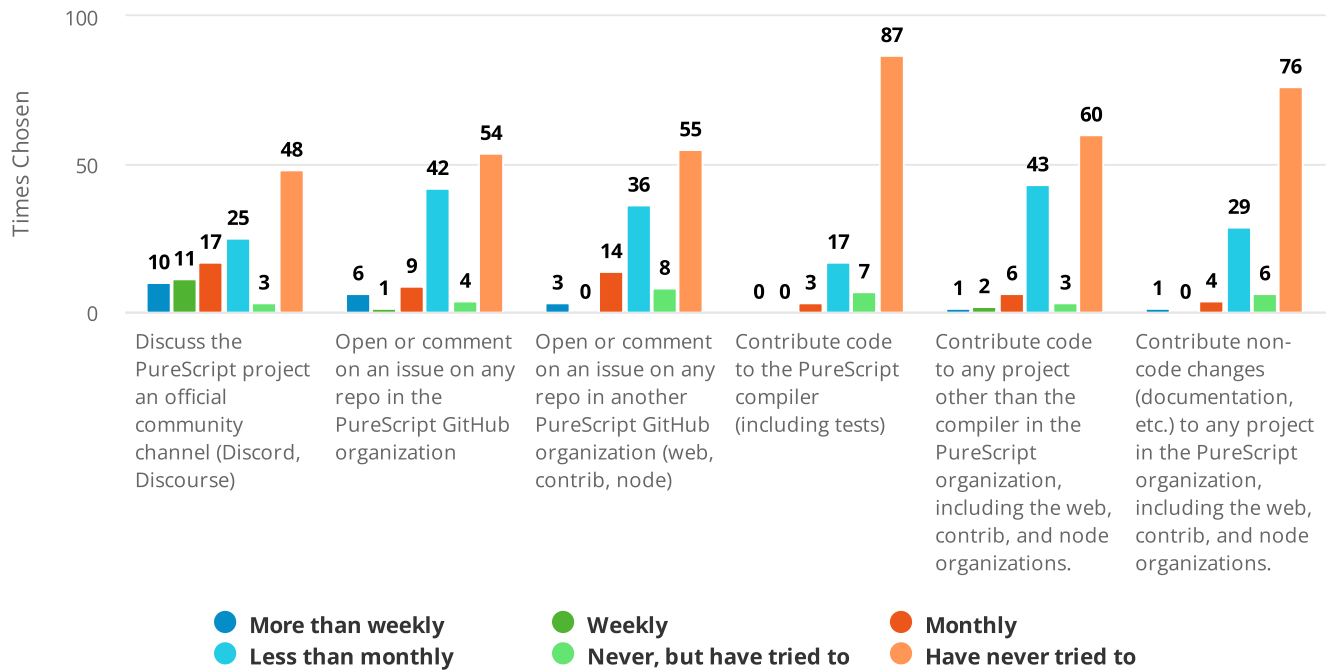
In which of the following ways have you participated in the PureScript community in the last 6 months?

Number of responses: 108



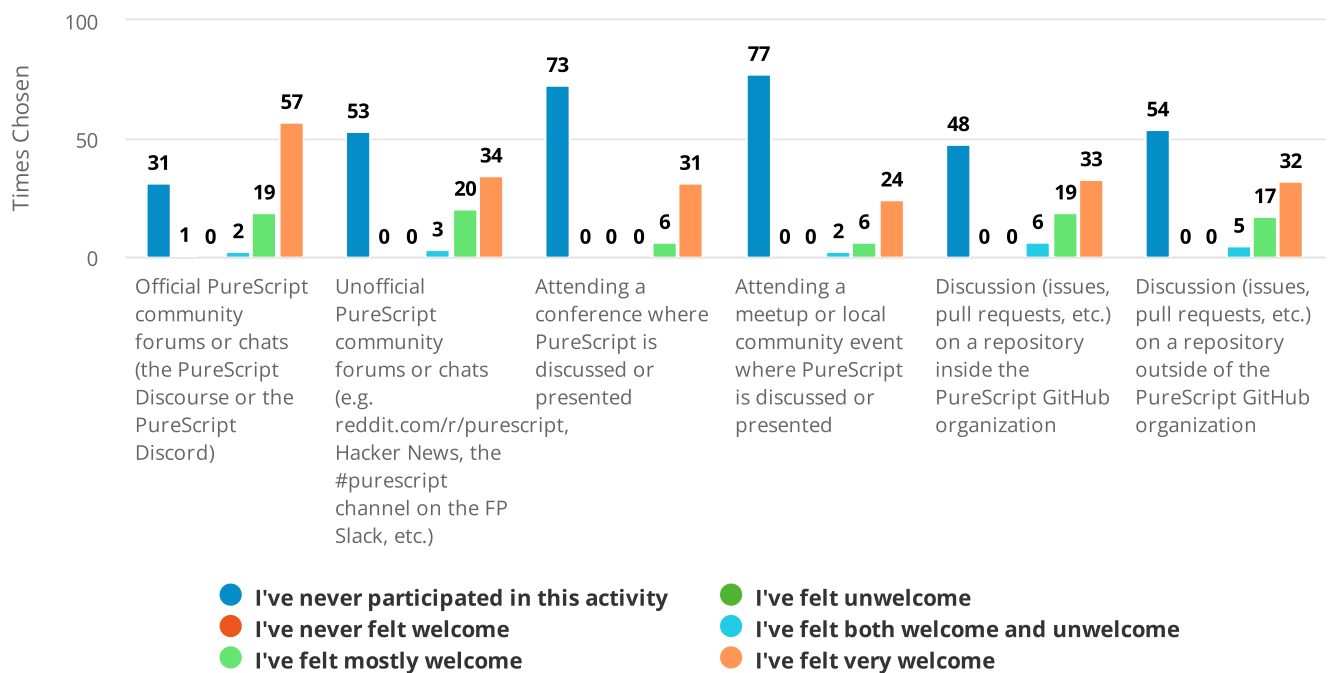
Roughly how often do you contribute to PureScript (language, ecosystem, community, etc)?

Number of responses: 117



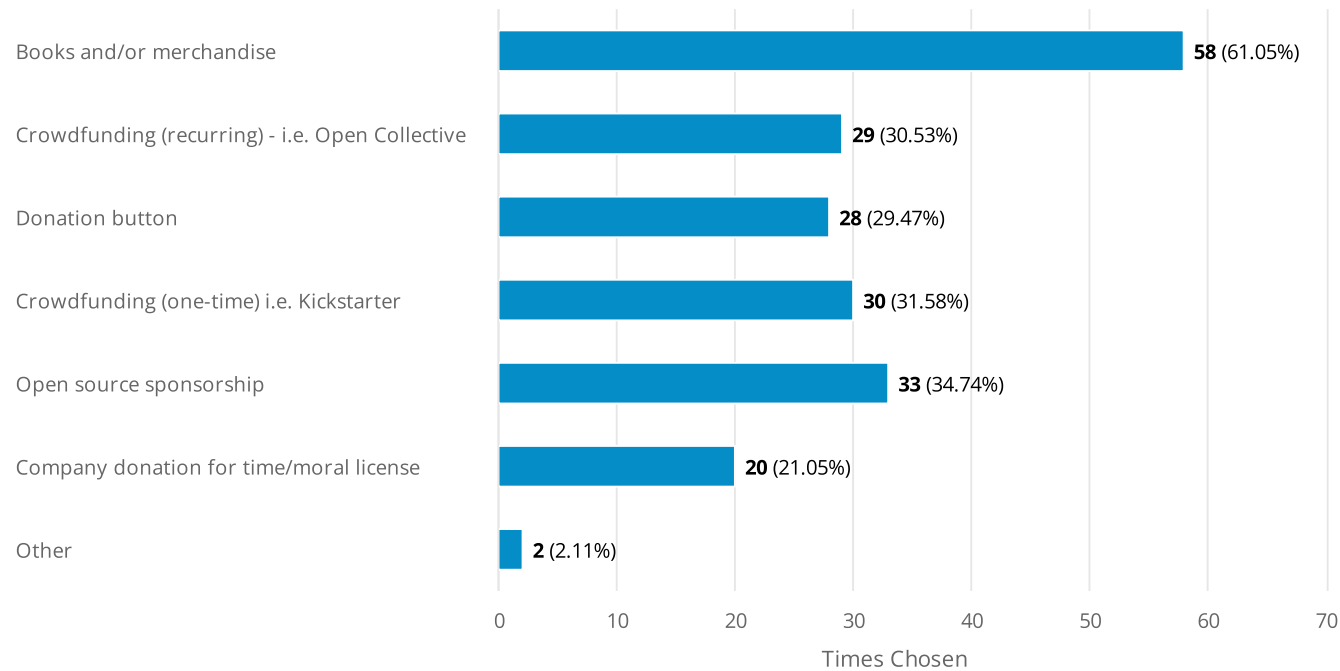
How often have you felt explicitly welcome in the PureScript community?

Number of responses: 112



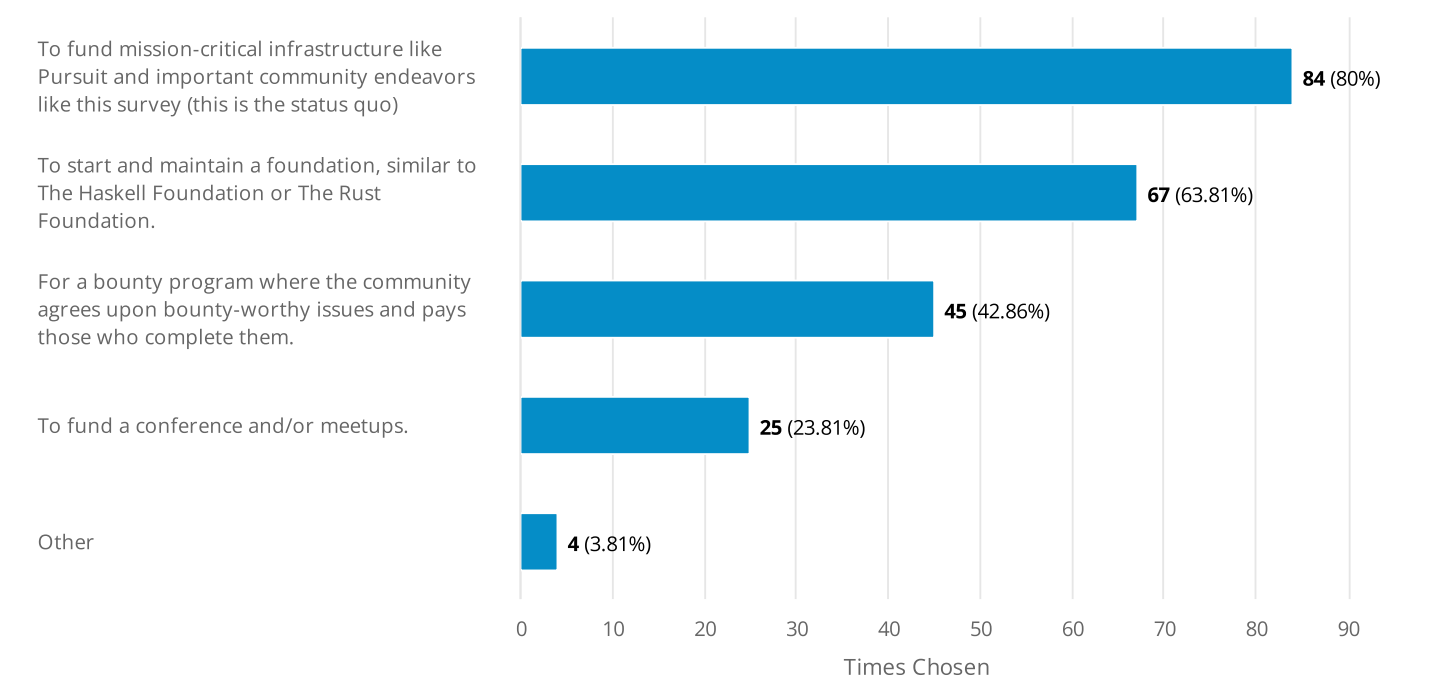
Through which mechanisms, if any, would you be most likely to contribute funding to the PureScript project?

Number of responses: 95



How should the PureScript project's funding be used?

Number of responses: 105

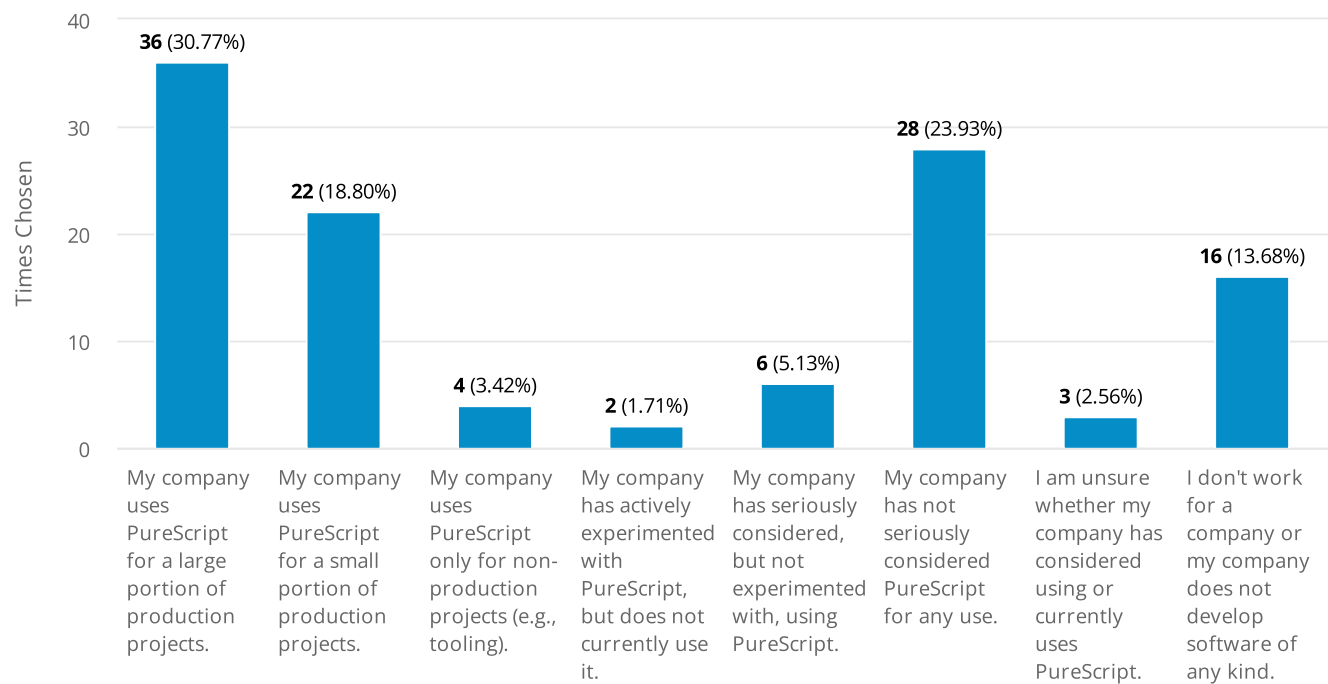


"Other" text answers:

- To support contributors, enabling them to spend more time on PureScript
- teaching resources
- To hire developers to work full time on the PureScript compiler and key libraries
- To an extent all of the above are worthy - I'm not close enough to it to comment sensibly. Do whatever has clear consensus among the core team!

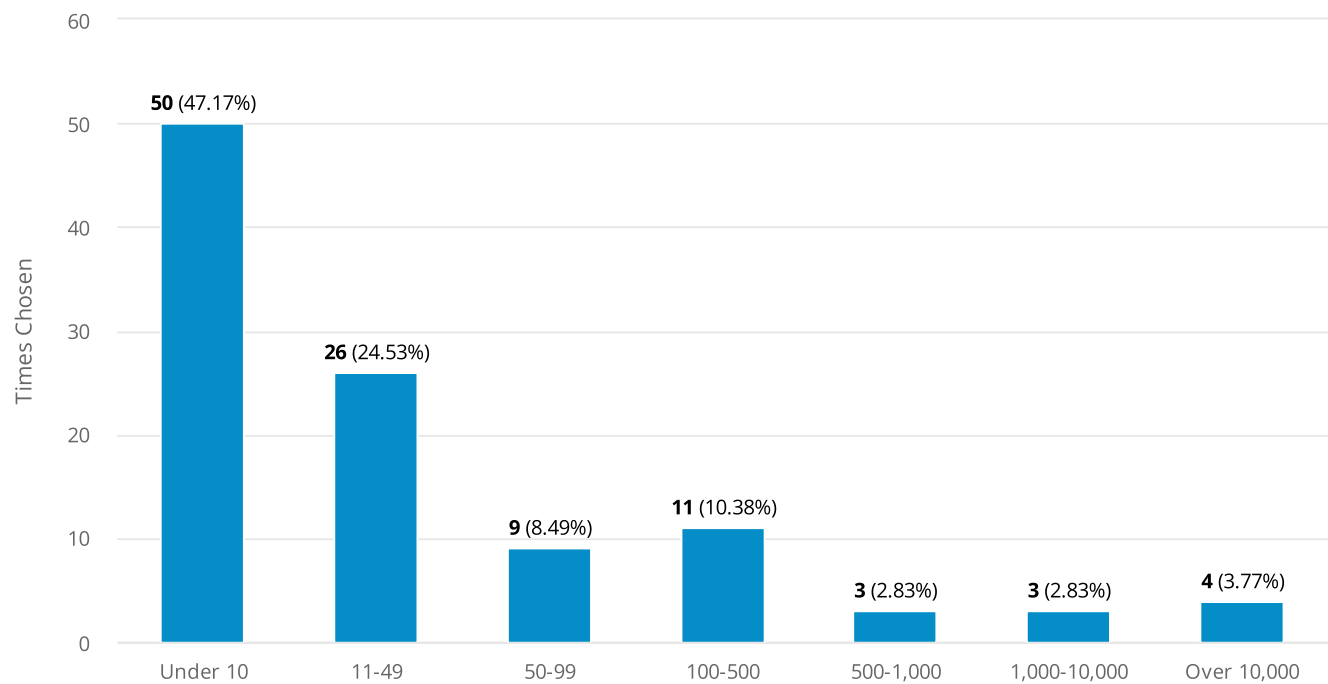
To what extent is PureScript currently being used by your company?

Number of responses: 117



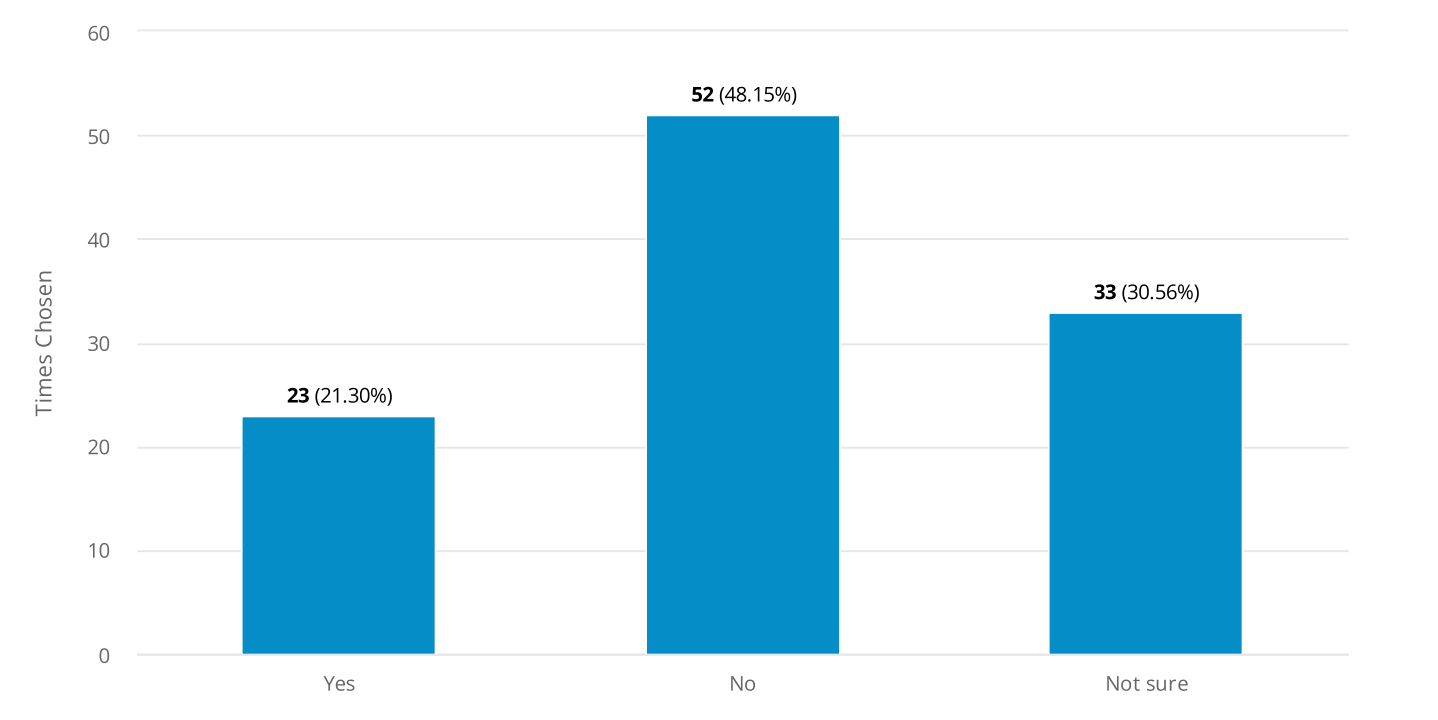
Approximately how many total developers does your company employ?

Number of responses: 106



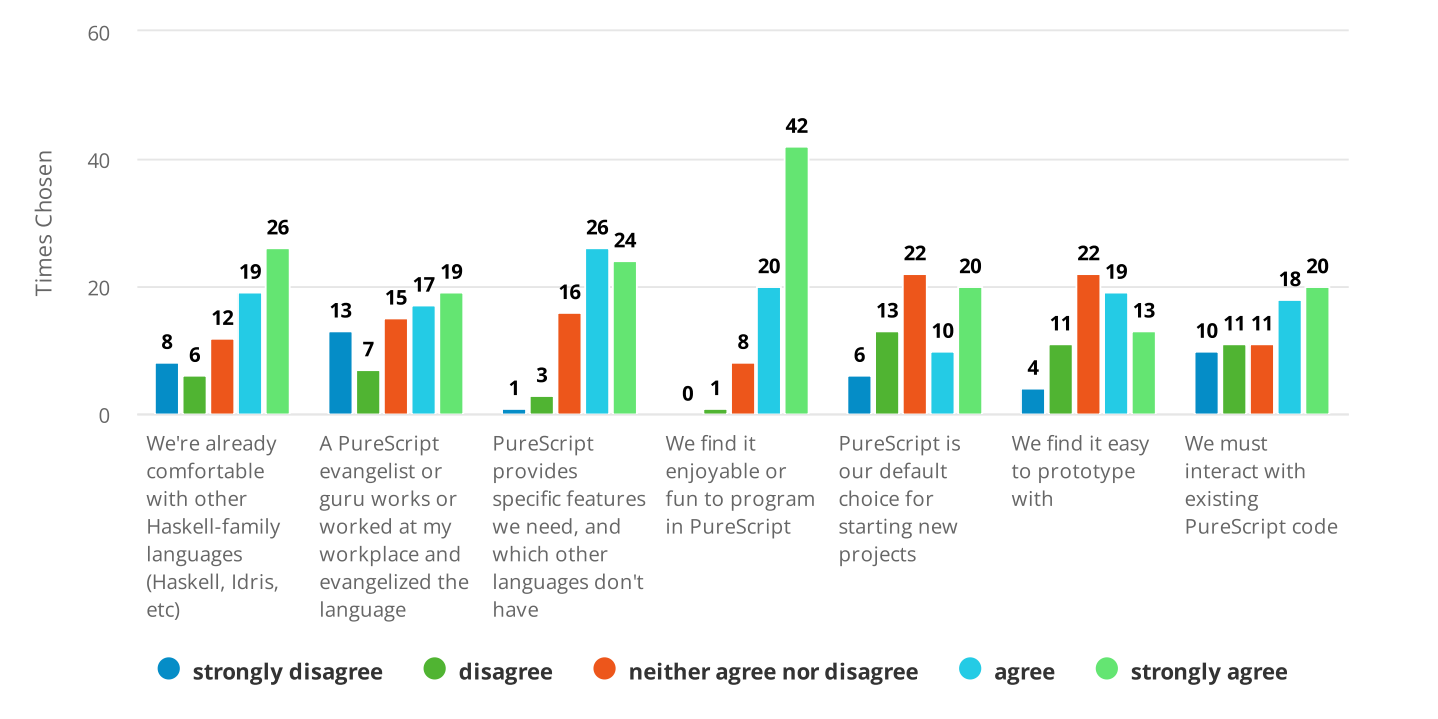
Is your company planning on hiring PureScript developers in the next year?

Number of responses: 108



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

Number of responses: 73



Are there any additional reasons why your team uses PureScript at work?

Number of responses: 14

Text answers:

Type safety, ADTs, pattern matching

Row types feature

We need compile-time safety for certain mission-critical flows.

FP is not known to most engineers.

To improve code quality and refactoring quality, being more time-efficient.

Access to React ecosystem through FFI

It is reasonable, unlike Javascript.

Team lead likes it. It's better than Javascript, Typescript.

Good tool, half the work. Re-factoring is easy and we do it a lot in agile development. No runtime errors. Maintainable code which cannot be easily destroyed by accident. No null. It just works.

Client hired us to code purescript.

We started with Elm but as it evolves we are less sure if Elm's way to handle change and community has a strong enough fit with our goals - PureScript seems to be much more open (FFI, writing outside "the" indented way, ..) and it's a lot easier to setup local code repositories for reuse (also yeah ... Type-System ... I love myself some abstraction)

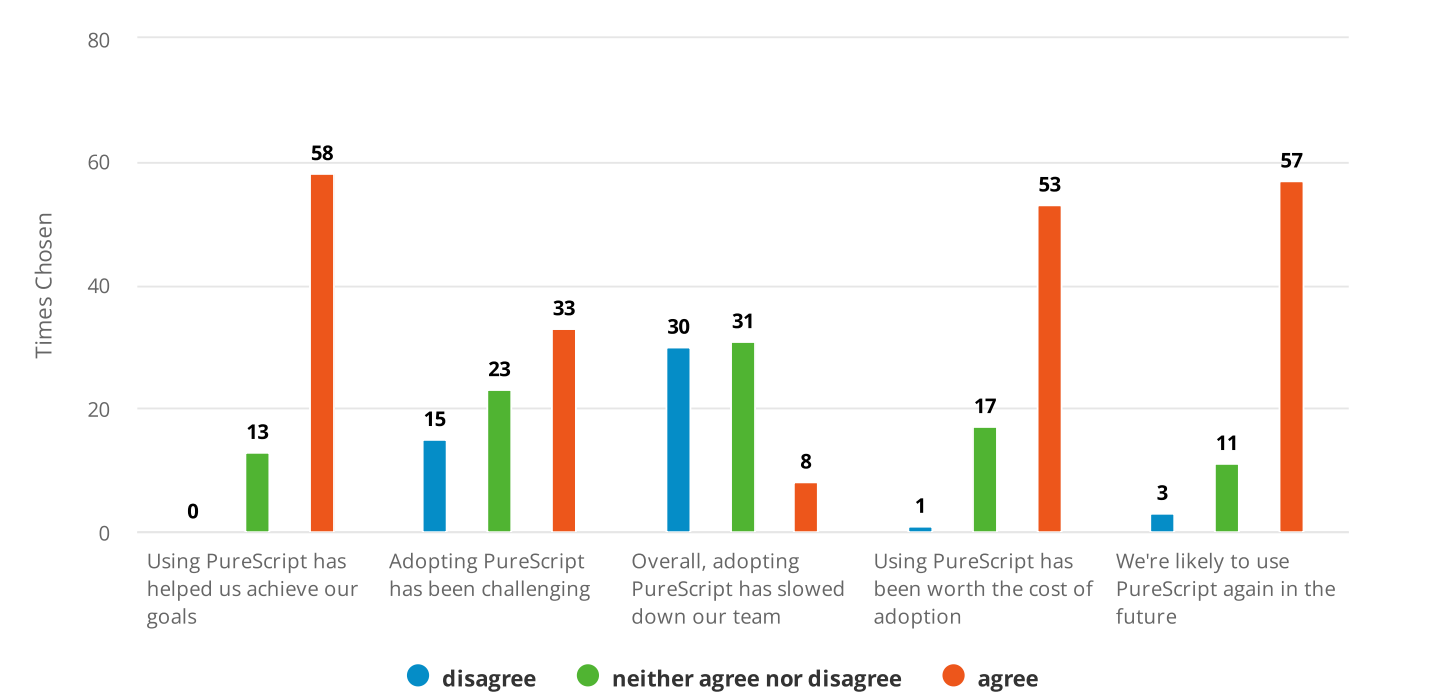
Type Safety - easy to maintain changes

The move to Purescript was driven by total cost of ownership concerns and in particular the ability to fearlessly refactor even complex / core parts of our codebase. We love Erlang, but (via Elm) felt jealous of the power that strongly typed languages bring to the table. There were various projects trying to bring strong typing to the BEAM, but purerl a) was pretty much feature complete b) was based on Purescript which is a great language and c) which had a complementary ecosystem. Front end and back end in the same language - yes please!

I proposed it :) and we already used Haskell, so PS for frontend was quite an obvious choice for us.

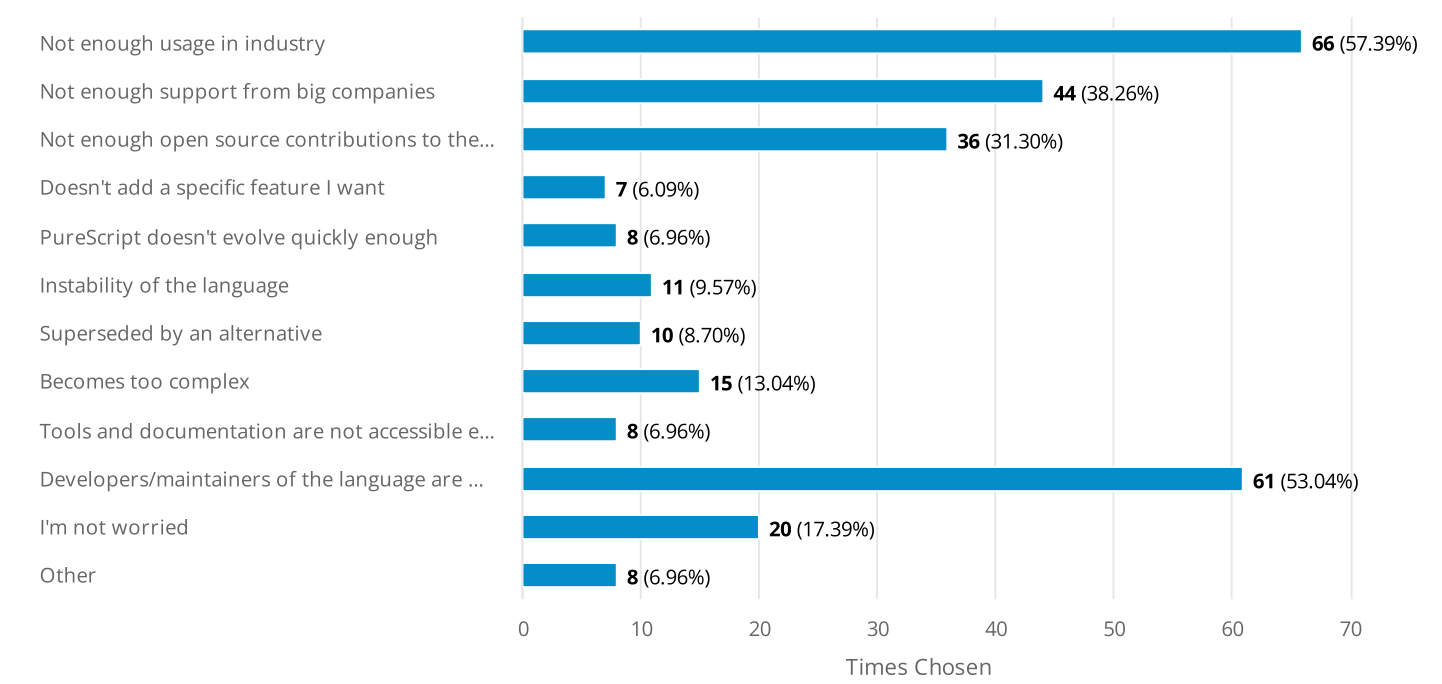
Please rate your agreement with the following statements regarding your team's experience using PureScript at work.

Number of responses: 72



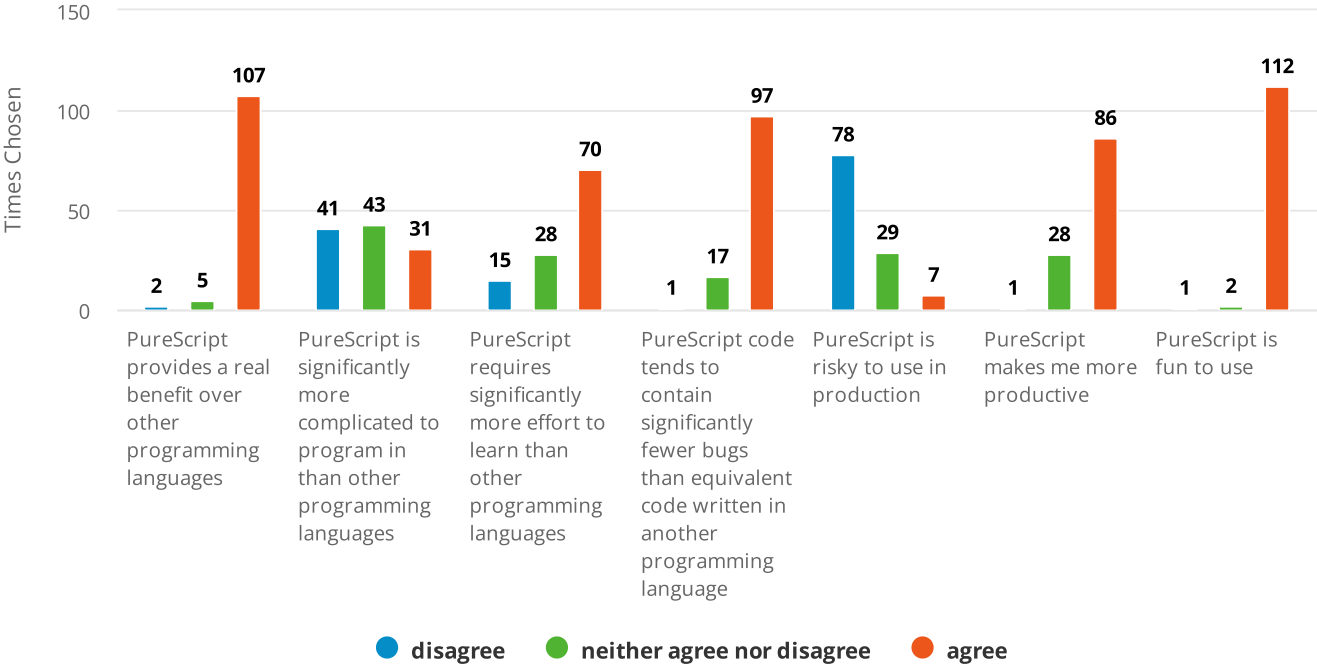
What are your biggest worries for the future of PureScript?

Number of responses: 115



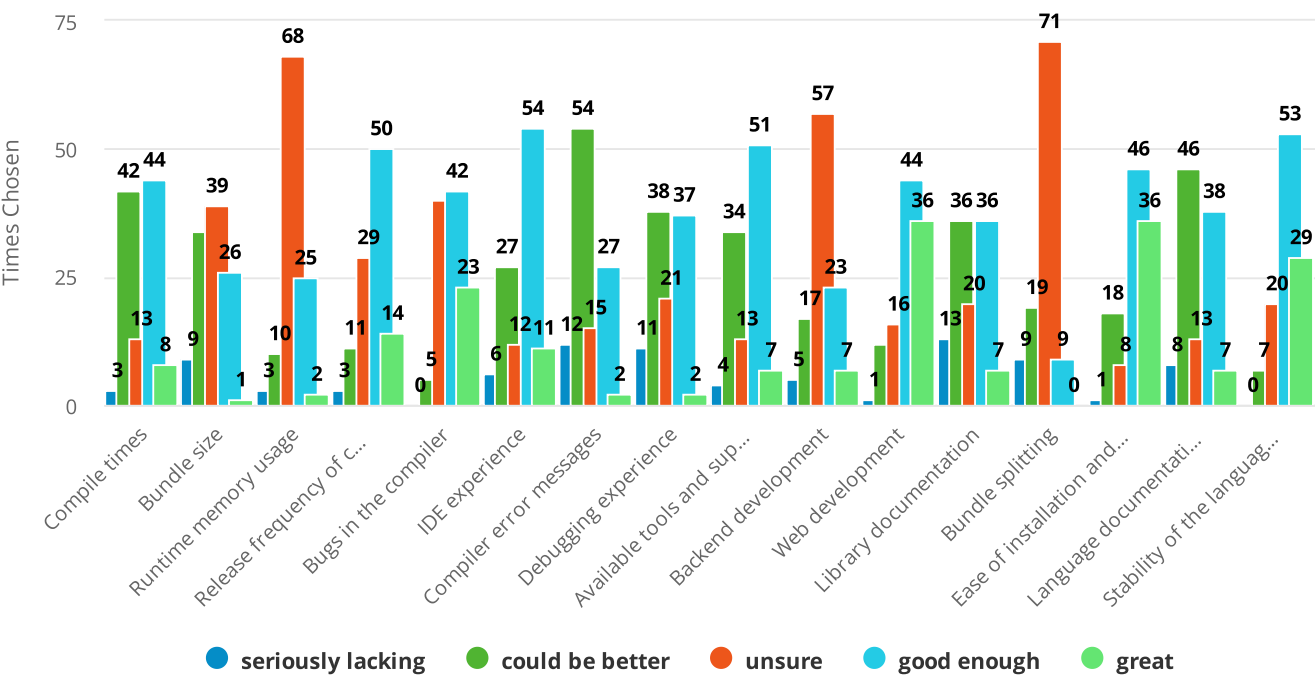
Please rate your agreement with the following statements about PureScript.

Number of responses: 115



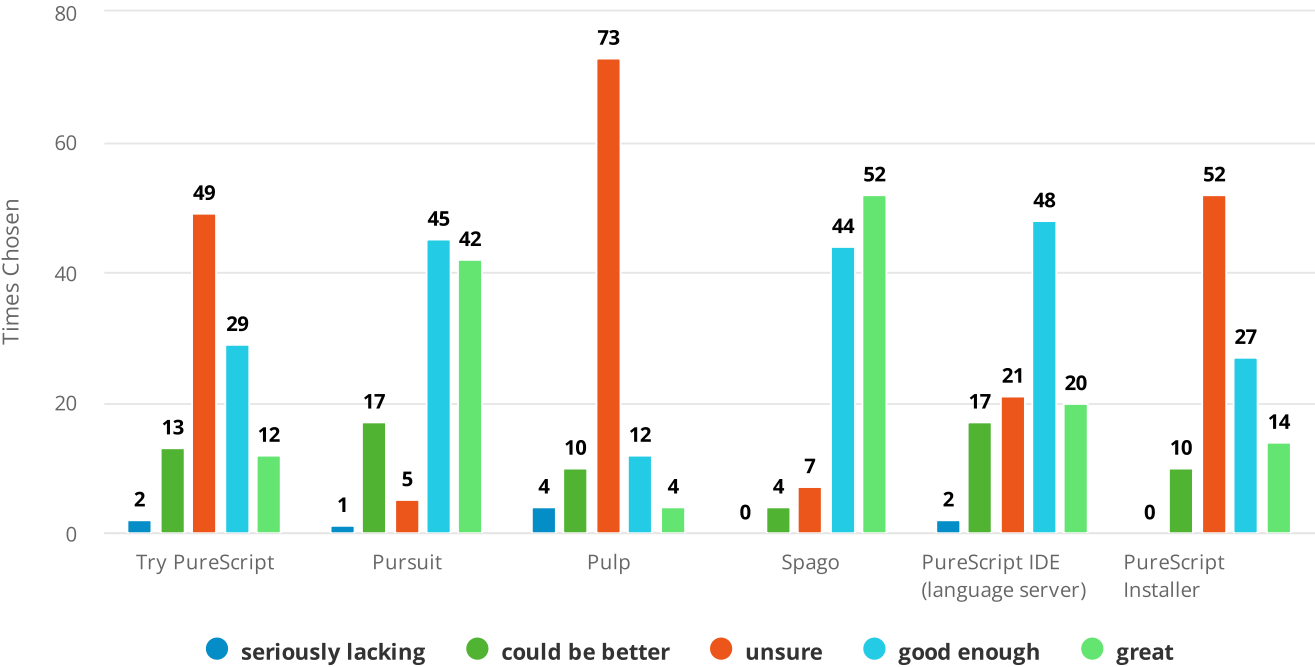
In your opinion, how do you find the following aspects of PureScript?

Number of responses: 112



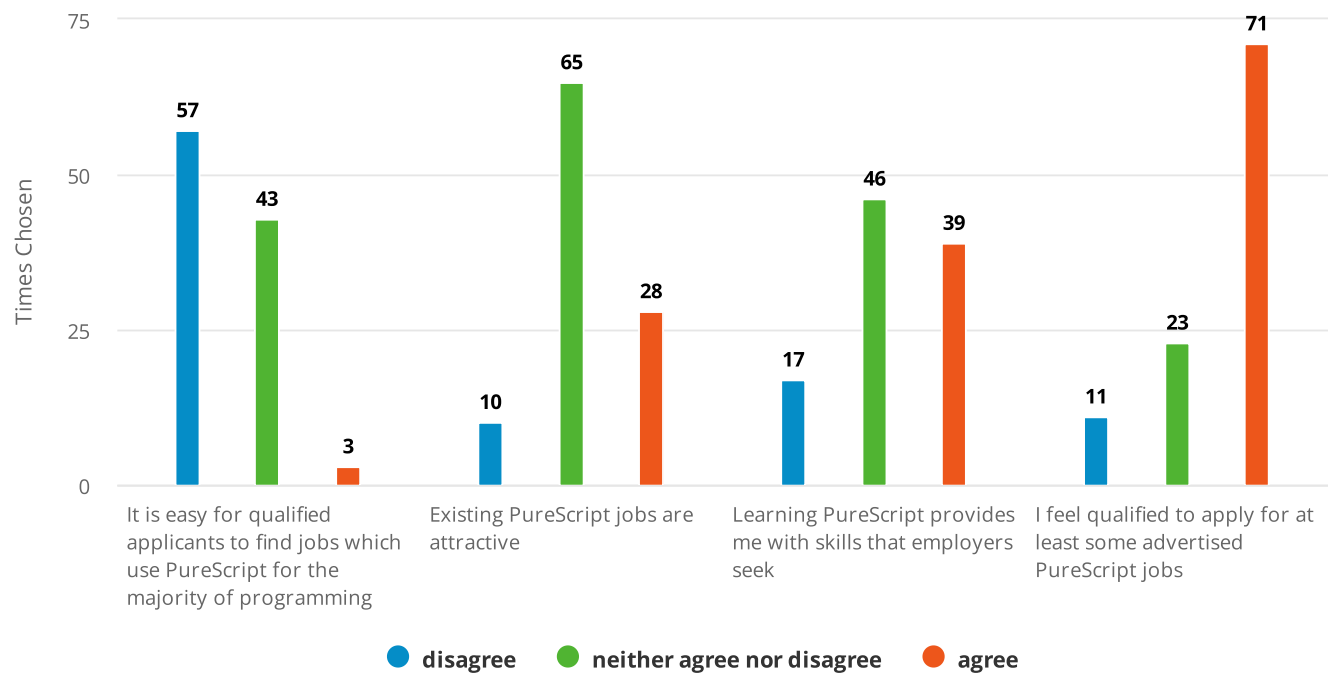
In your opinion, how do you find the following PureScript tools and services?

Number of responses: 111



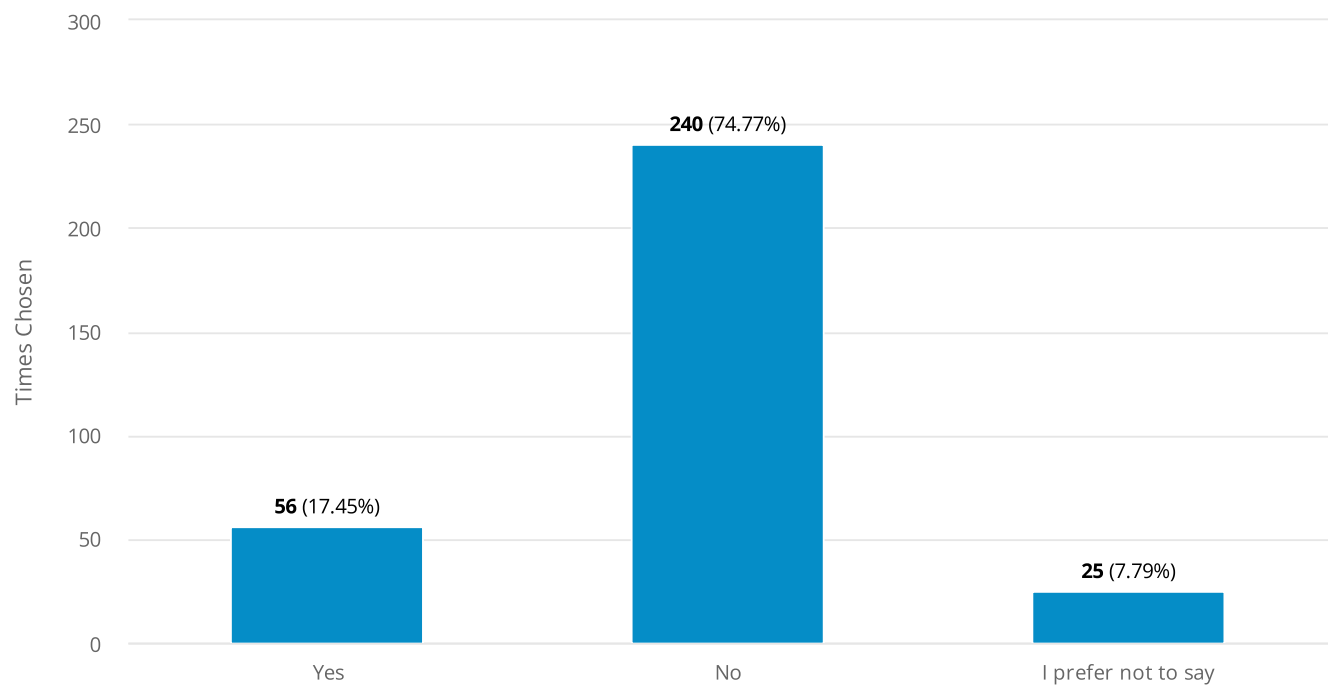
Do you agree with the following statements on PureScript employment?

Number of responses: 106



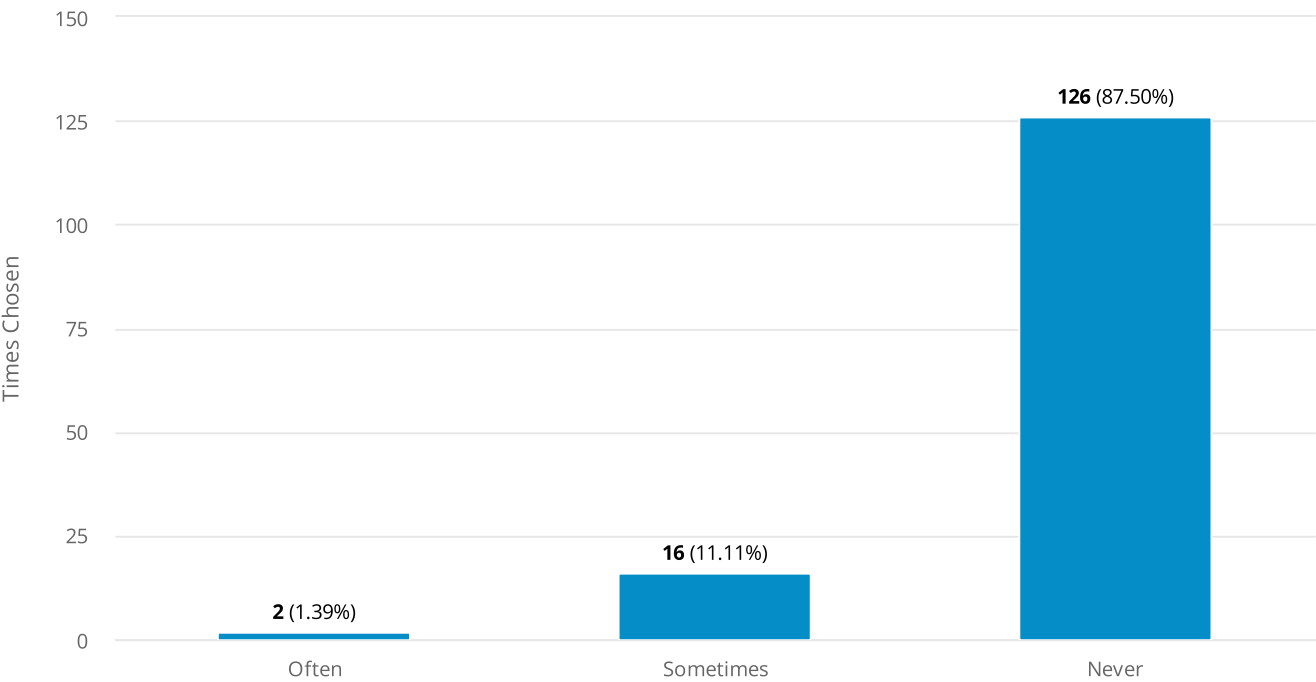
Do you consider yourself a member of a group which is underrepresented or marginalized in technology?

Number of responses: 321



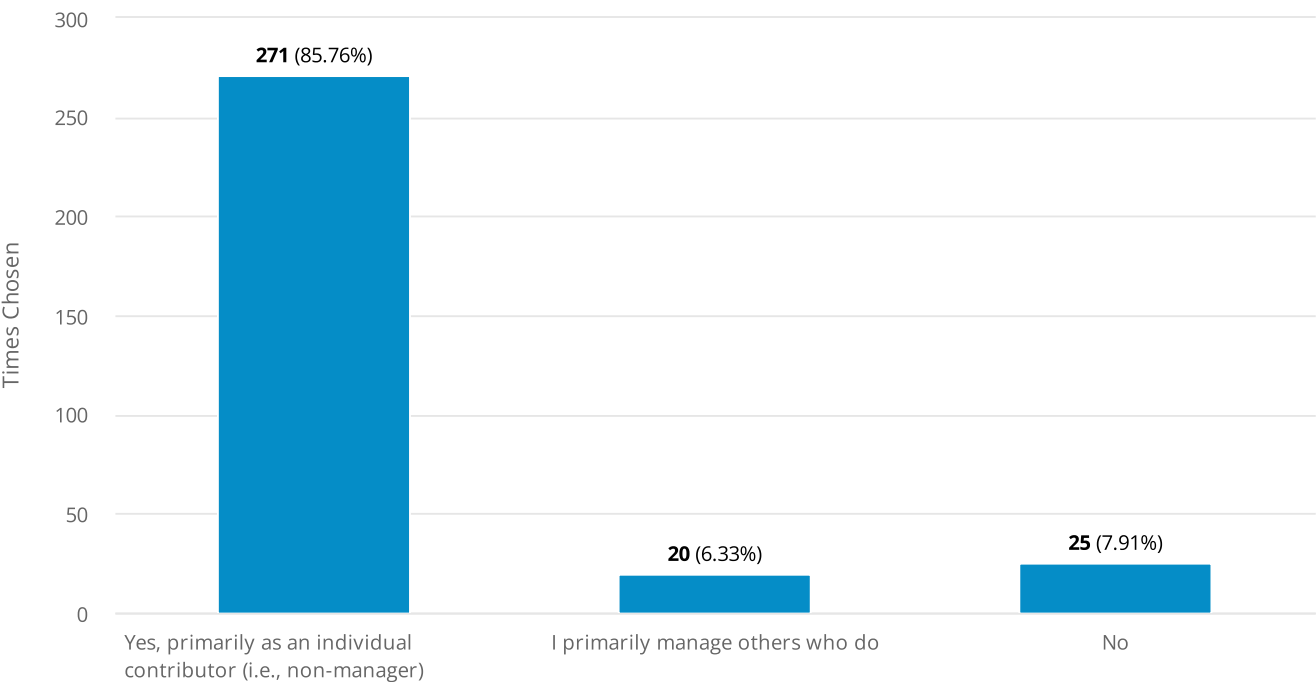
Do you feel that belonging to an underrepresented or marginalized group in technology makes it difficult for you to participate in the PureScript community?

Number of responses: 144



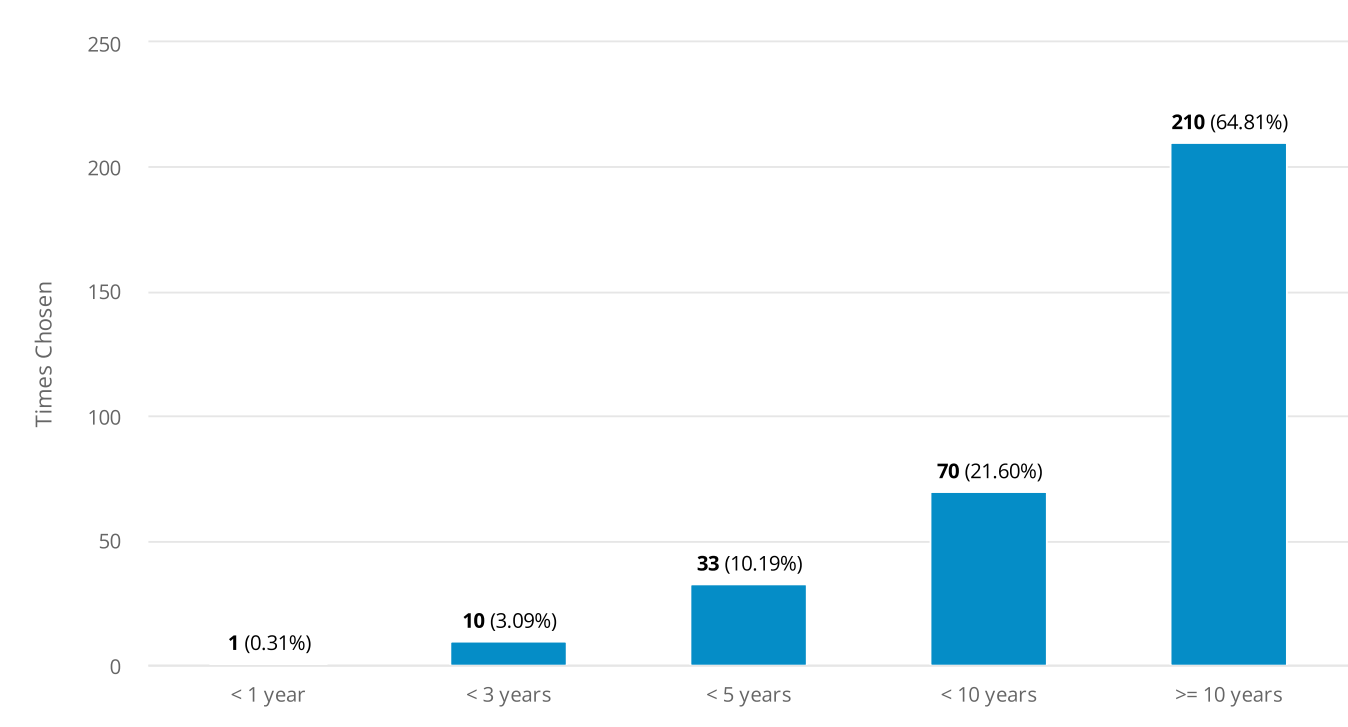
Do you write or design software in your work?

Number of responses: 316



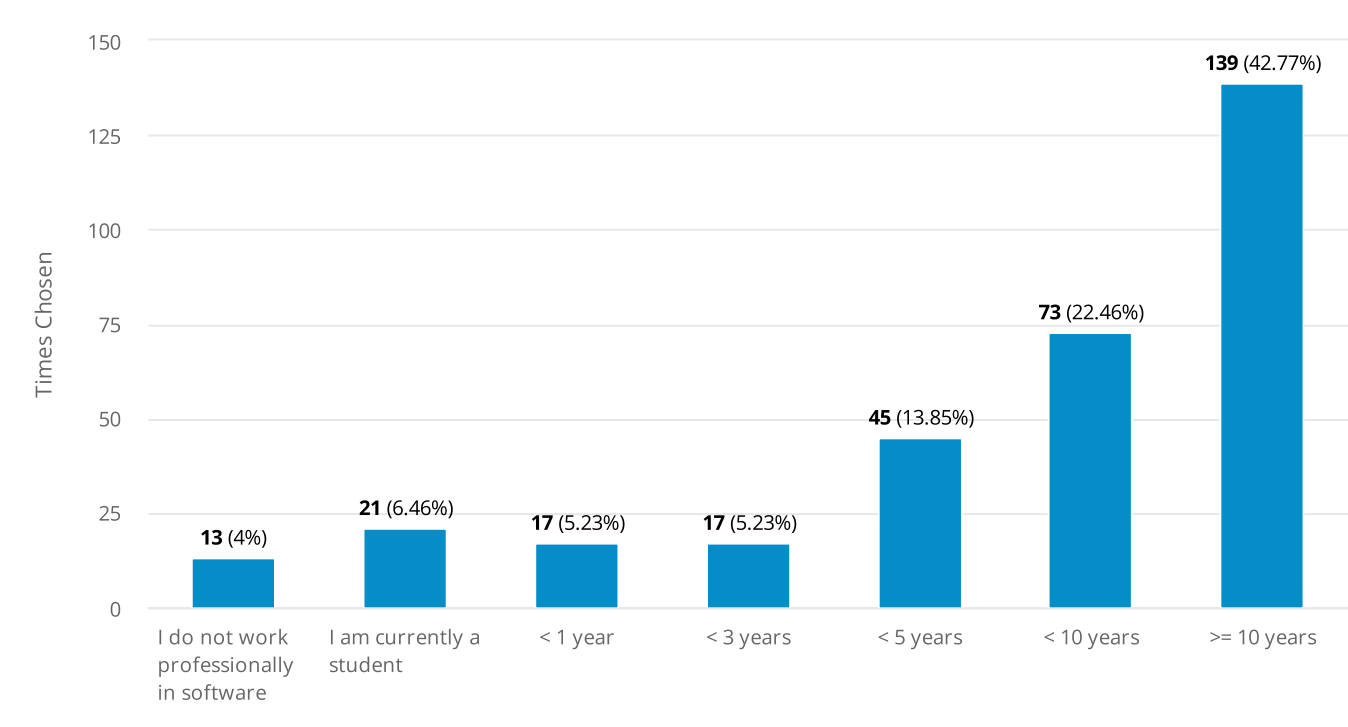
How long have you been programming (in any language, for any reason)?

Number of responses: 324



How long have you worked in software professionally?

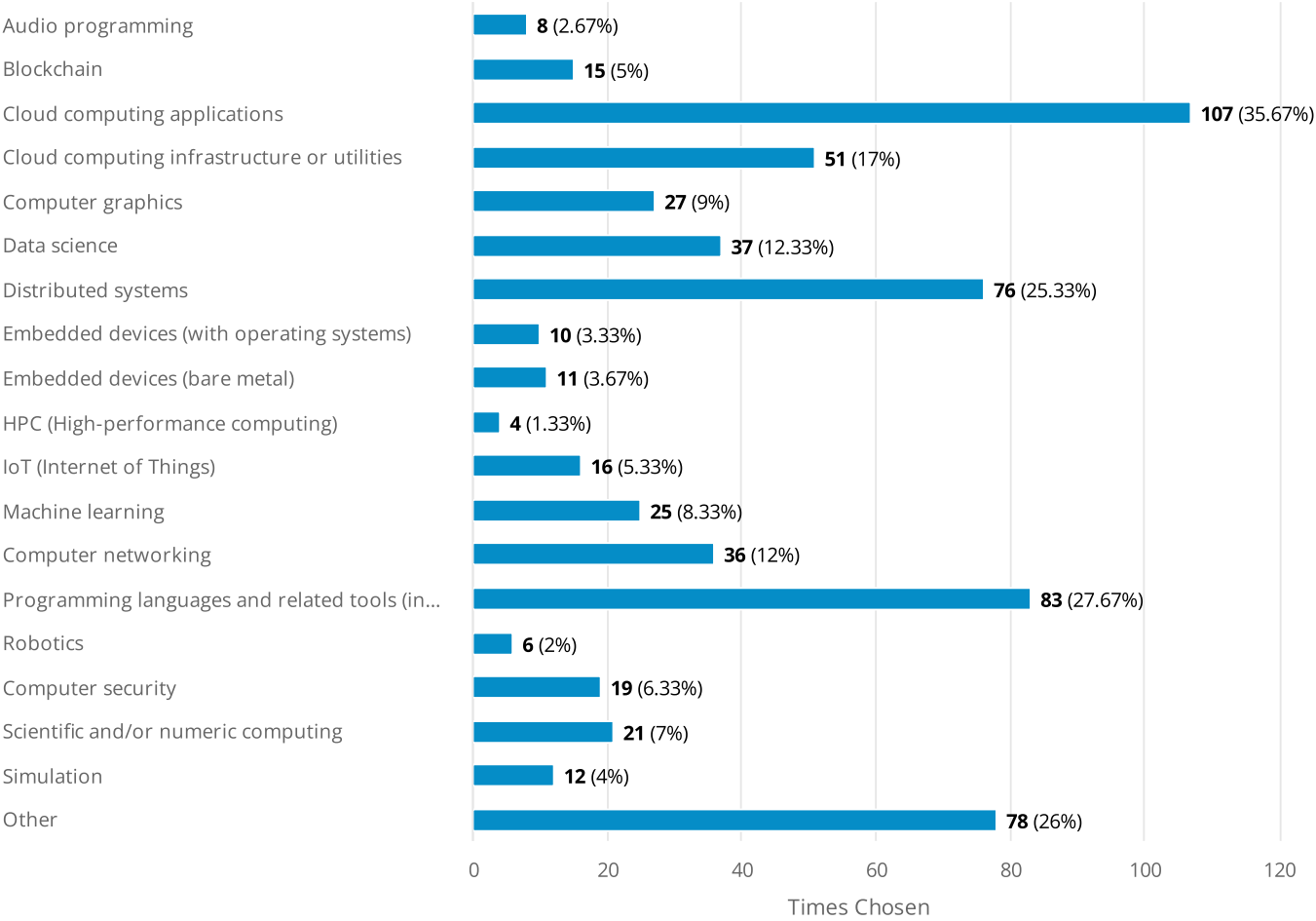
Number of responses: 325



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

Number of responses: 300

NOTE: This question was erroneously worded. It was meant to tease out applications besides web development, which it did, but because of the poor wording, a lot of write-ins include web development. It will be fixed in next year's survey!



"Other" text answers:

Web

Business tools

Just a web dev

Web development

systems

Web development

Web Applications

Audio Programming

Erp

beginner programmer tutorials

Back-end programming

Scripts, bots

business application

Web applications

Web applications

Natural Language Processing

Finance

Banking applications

Web apps

web app development

Basic web applications

Banking

Web applications

Education

Web

web apps

logistic

Web

Productivity

Web based and desktop financial platforms

Web Pages

Web development

Web stuff

ecommerce

Banking, Assurance

Web applications and backend services (browser and backend)

Testing

Finance

Data engineer

Old school (JSP) web dev

Front-end

Web apps

Video games

Other

Websites

Frontend

Education

Frontend

Energy industry

Web

Ad tech

ERP

Consulting enterprise/full stack

Web services

Enterprise

app dev?

Algorithms

Web

Document analysis

Digital Signage

Web / SPAs

Entertainment

Other

boring line of business applications

Web

I'm a generalist and do whatever my client needs me to

Non-Cloud Non-Consumer Proprietary Applications for Retail / POS

Web applications

Web frontend, backend, systems

Web Development

Enterprise software

Website design

Encoding / Media workflows / live event (sports, financial) broadcasting & content distribution

Web development

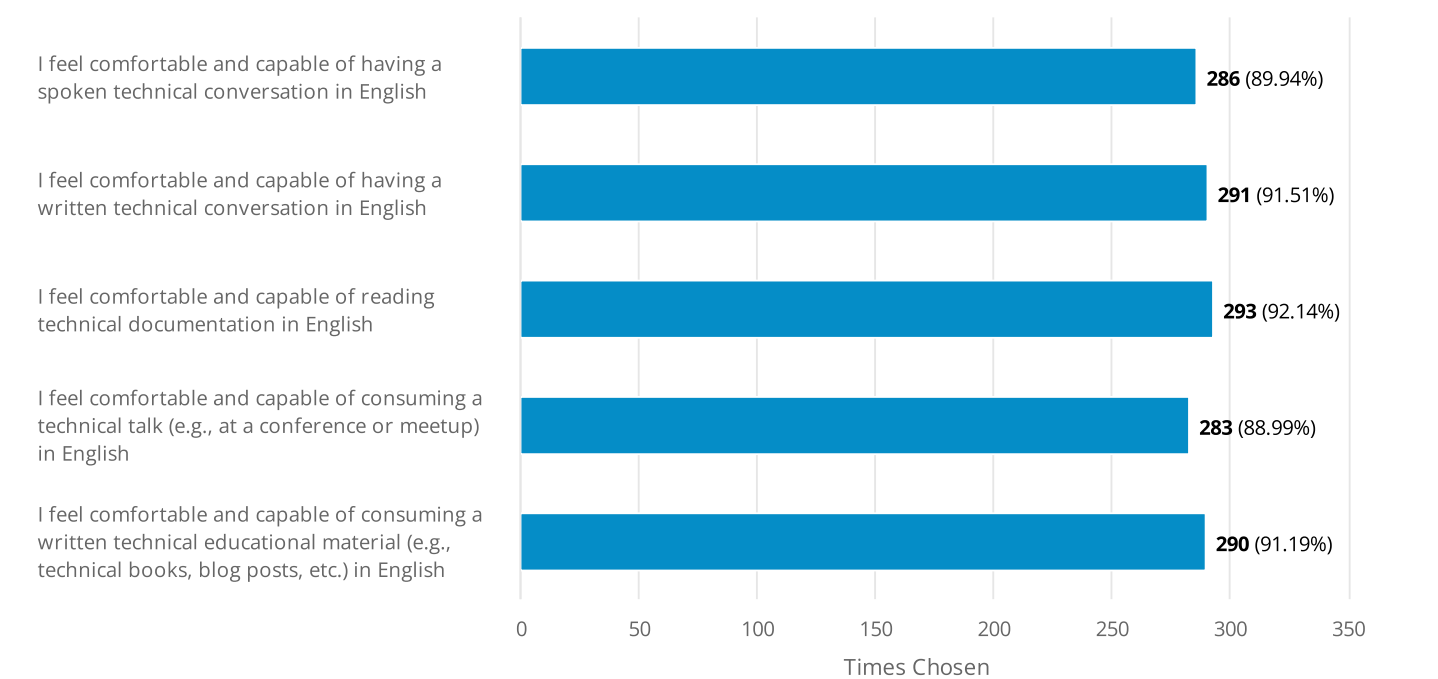
web

Logistics and legal tech

Web development

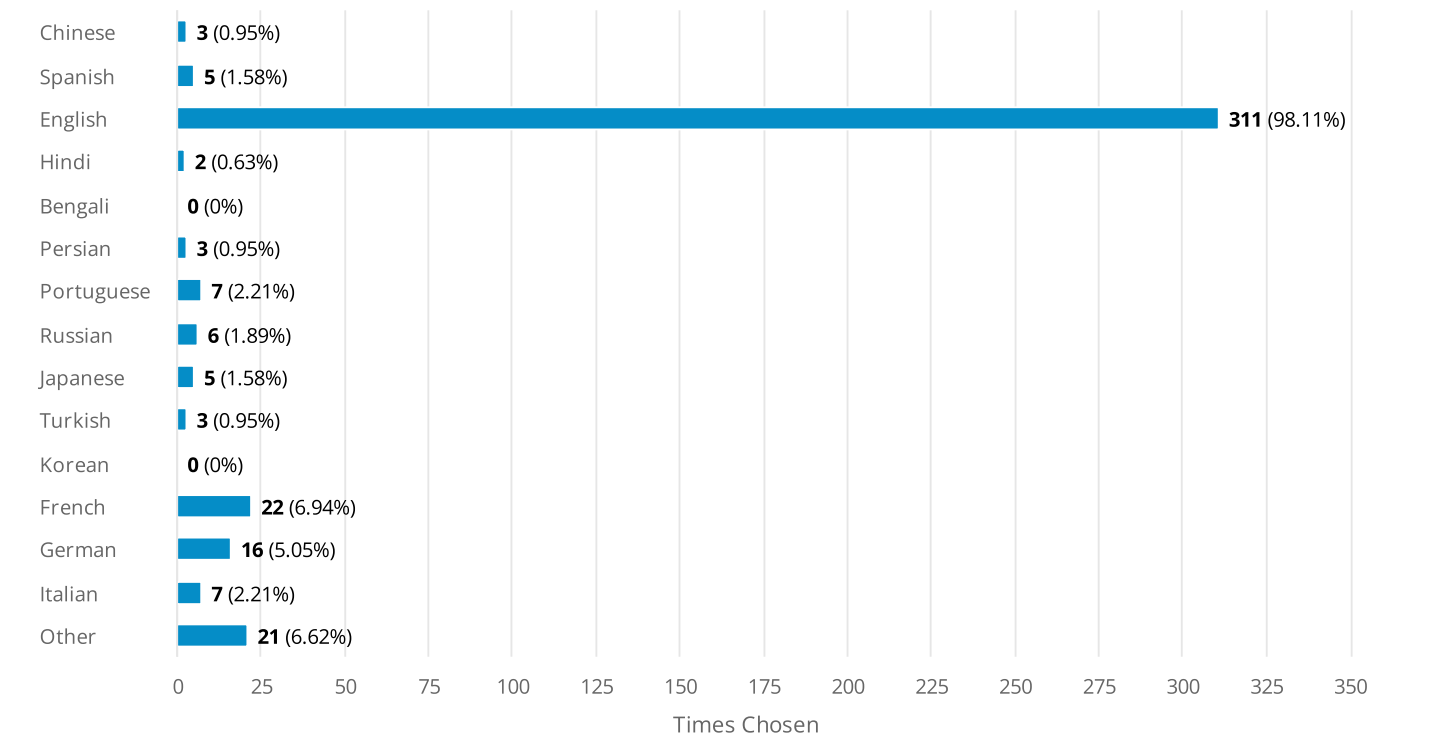
In what ways are you comfortable communicating about technical topics in English?

Number of responses: 318



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

Number of responses: 317



"Other" text answers:

- Polish
- Dutch
- Toki Pona
- Indonesian
- Polish
- Dutch
- Dutch
- Indonesian
- Danish
- Dutch

Dutch

Thai

Norwegian

Ukrainian

Dutch

Swedish

Finnish

Dutch

Swedish

Czech

Polish