

# Android Developer Survey

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## Start of Block: Introduction

Intro1 Welcome to this survey from the universities of Lancaster, Hannover and Padaborn. Your responses will help developers in the future to produce more secure apps.

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Intro2



Intro3 Please select the arrow to start.

## End of Block: Introduction

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## Start of Block: Team

Q4 Are you working in a team with others, such as developers, testers, project managers?

- Yes (23)
- No (24)

*Skip To: End of Block If Are you working in a team with others, such as developers, testers, project managers? = No*

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Q5 What is your role?

- Programmer (creates code) (1)
  - Tester/QA Engineer (tests apps) (2)
  - Project Manager (3)
  - Non-specific (whatever it takes) (4)
  - Don't know (5)
  - Other (6) \_\_\_\_\_
- 

Q6 What other roles apart from yourself are there in your team?

- Programmer (creates code) (1)
  - Tester/QA Engineer (tests apps) (2)
  - Project Manager (3)
  - Non-specific (whatever it takes) (4)
  - Don't know (5)
- 



Q7 About how many people (including developers, project managers, testers) are there in your team?

\_\_\_\_\_

End of Block: Team

Start of Block: Development

Q8 Please select all the ways you use to develop Android apps:

- Native Java (193)
- JavaScript (e.g. Cordova) (194)
- C# (Xamarin) (195)
- Dart (Flutter) (202)
- Python (196)
- Kotlin (197)
- Lua (Corona) (198)
- Native C/C++ (199)
- Other (200)

*Skip To: Q10 If Please select all the ways you use to develop Android apps: != Other*

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Q9 What other ways to you use to develop Android apps?

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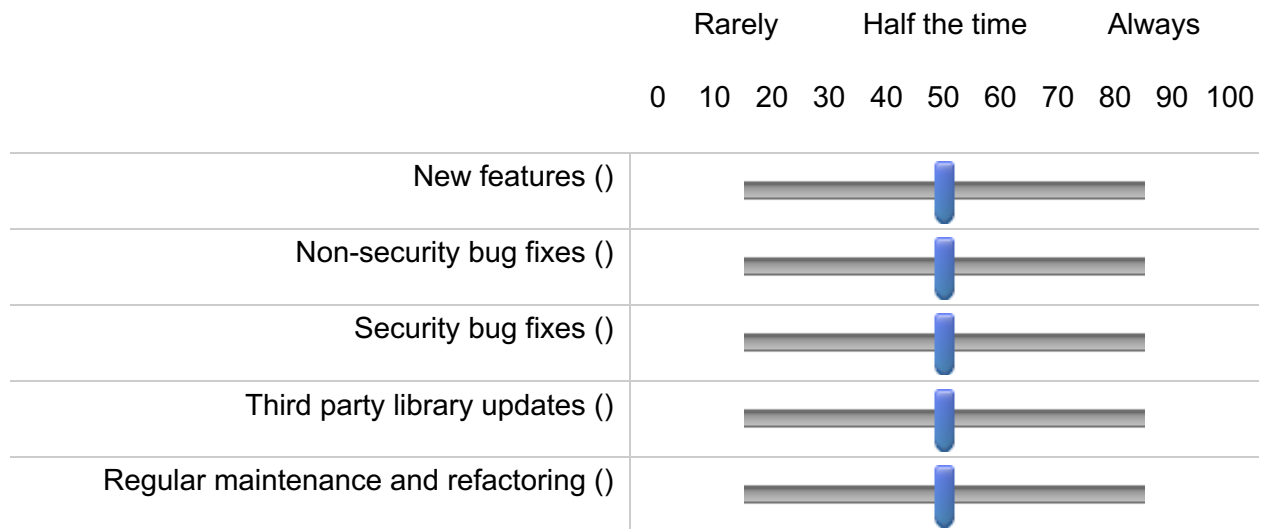


Q10 How often did you release a new version of your app over the past two years? Please give your best estimate; if you have more than one app, please answer for that app that was most frequently updated.

- Never (0)
- Annually (1)
- Quarterly (2)
- Monthly (3)
- More frequently (4)

*Skip To: End of Block If How often did you release a new version of your app over the past two years? Please give your bes... = Never*

Q11 Over the last one to two years, what content has been in your app updates?



End of Block: Development

Start of Block: Development priorities



Q12 How important is each of the following for your app(s)?

	Extremely important (4)	Very important (3)	Moderately important (2)	Slightly important (1)	Not at all important (0)
Runs on many different devices (33)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Secure against malicious attackers (34)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Protects users' privacy (35)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Easy to use (36)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Supports many features (37)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Runs smoothly (38)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q13 How important is security for sales?

- Extremely important (4)
- Very important (3)
- Moderately important (2)
- Slightly important (1)
- Not at all important (0)

## End of Block: Development priorities

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### Start of Block: Your experience



Q14 How knowledgeable do you consider yourself about information security?

- Extremely knowledgeable (4)
- Very knowledgeable (3)
- Moderately knowledgeable (2)
- Slightly knowledgeable (1)
- Not knowledgeable at all (0)

## End of Block: Your experience

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### Start of Block: Your approach to security



Q15 Does your app development ever get support from professional security experts?

- Yes (1)
- No (0)
- I don't know (99)

*Skip To: End of Block If Does your app development ever get support from professional security experts?  
!= Yes*

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Q16 Who are these professional security experts?

- Someone on your team (1)
  - Someone external (2)
-



Q17 What support do you get from them? Please select all that apply:

- Penetration testing (1)
  - Security training (2)
  - Audits (3)
  - Design reviews (4)
  - Working on team (5)
  - I don't know (6)
  - Other - please say what: (7)
- 



Q18 About how often do you get support from them?

- Continuously (5)
- Weekly (4)
- Monthly (3)
- Quarterly (2)
- Yearly (1)
- Don't know (99)

End of Block: Your approach to security

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## Start of Block: What caused changes



Q19 Which of the following have led to changes in the security of your app(s) in the past one to two years? Please select all that apply:

- Decision from management (1)
- Security crisis within your organisation (2)
- Media coverage about app security (3)
- Something bad happening to a competitor (4)
- Pressure from a partner company (5)
- Drive from product or sales team (6)
- Pressure from customers (7)
- Developer initiative (8)
- GDPR requirements (9)
- Something bad almost happening to your organisation (10)

*Skip To: End of Block If Which of the following have led to changes in the security of your app(s) in the past one to two... != GDPR requirements*

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Q20 What changes have you made as a result of GDPR requirements?

- Addition of popup dialog(s) (1)
  - Removal of analytics or advertising based on it (2)
  - Adding or changing privacy policy (3)
  - Other (please say what): (4)
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End of Block: What caused changes

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Start of Block: Team techniques



Q21

How much do you use each of the following techniques to find security problems?

	Every build (4)	Every release (3)	Done once or occasionally (2)	Decided not to use (1)	Haven't considered it (0)
Producing a threat assessment for the app (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scanning code with an automatic code review tool (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using a tool to scan for libraries with known vulnerabilities (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code review by someone other than the developer (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Penetration testing (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q22 What other techniques do you use (if any)?

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Q23 Do you have a security champion within your team? A security champion -- or security hobbyist -- is a non-expert, who takes a particular interest in security.

- Yes (1)
- No (0)
- I don't know (99)

End of Block: Team techniques

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Start of Block: About your programming



Q24 For how many years have you been developing Android apps?

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Q25 For how many years have you been programming in general (not just for Android)?

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Q26 About how many Android apps have you helped develop in total?

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Q27 Is developing Android apps your primary job?

- Yes (23)
- No (24)

Q28 Have you contributed to an open source project in the past year?

Yes (23)

No (24)

End of Block: About your programming

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Start of Block: About you



Q29 To which gender identity do you most identify?

Female (1)

Non-binary (3)

Male (2)

Prefer not to say (4)

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Q30 What is the main spoken language you use at work?

English (29)

Chinese (30)

Spanish (31)

Arabic (32)

German (33)

French (34)

Other (35)

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Q31 In which country do you currently reside?

▼ Afghanistan (1) ... Zimbabwe (1357)

End of Block: About you

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Start of Block: And finally



Q32 Please click here if you would like us to send you the results from the survey

Yes please (1)

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Q33 Please click here if we may keep your email to approach you for future surveys

Yes please (1)

End of Block: And finally

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