



Mark Miller, Senior Storyteller

# Developers and Application Security: Who is Responsible?

SURVEY RESULTS, November 2014

# Mark Miller

Trusted Software Alliance  
Thoughts, Ideas and Trends in Application Security



OWASP 24/7

The WebGoat Project with Rick Lawson and Jason White

8 days

#owasp



14:47



▶ 812 | ❤️ 1 | ⬇️ 6



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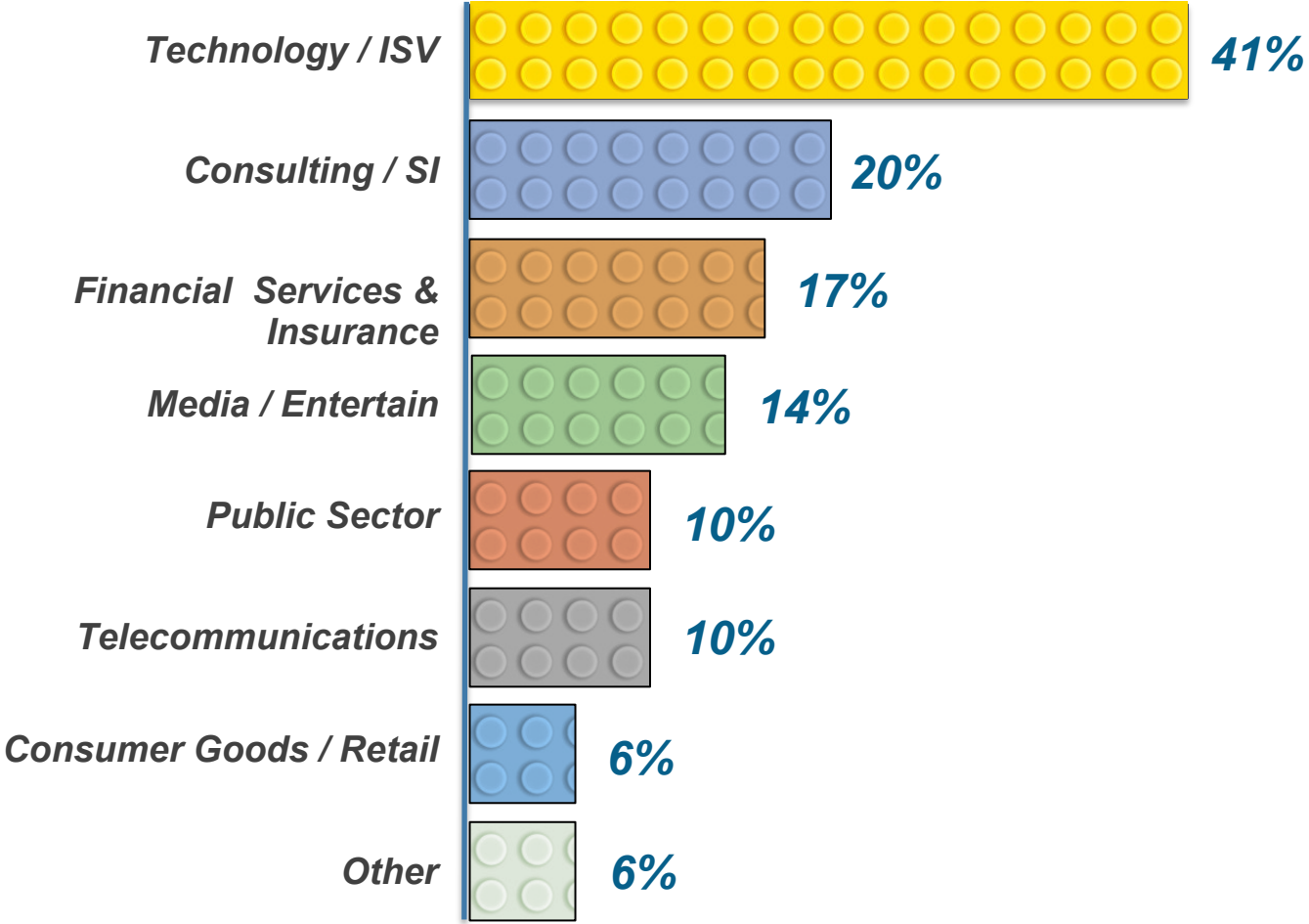
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# Q5 - In what industry does your business operate?



# Q1 – What is your role within your current organization?



*DevOps*

**30%**



*Development*

**26%**



*Operations*

**25%**



*Security*

**16%**



*Other*

**3%**

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# Q3 – What is your responsibility level?



*Practitioner*

**46%**



*Manager*

**40%**



*Senior  
Management*

**8%**

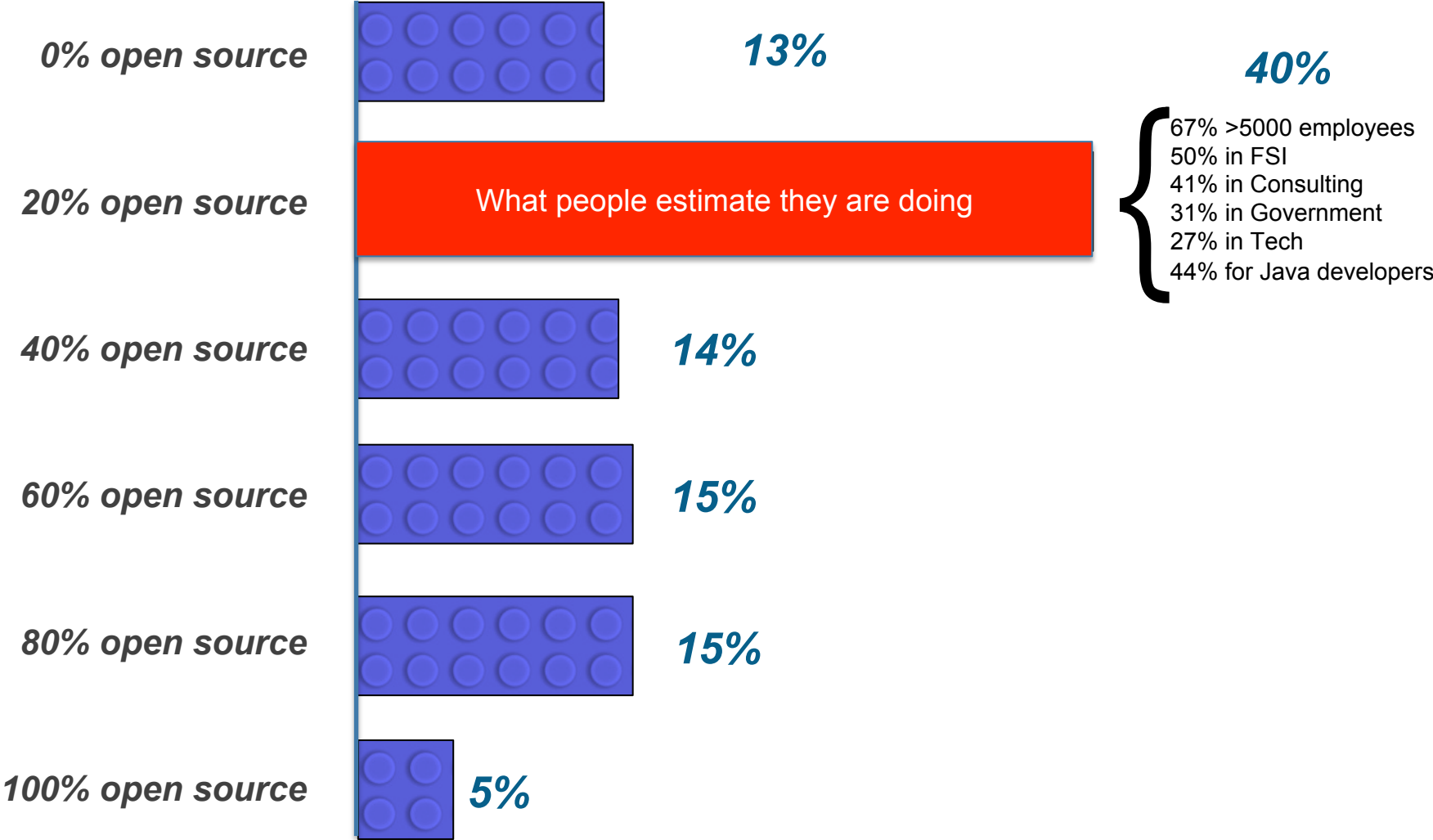


*Executive  
Management*

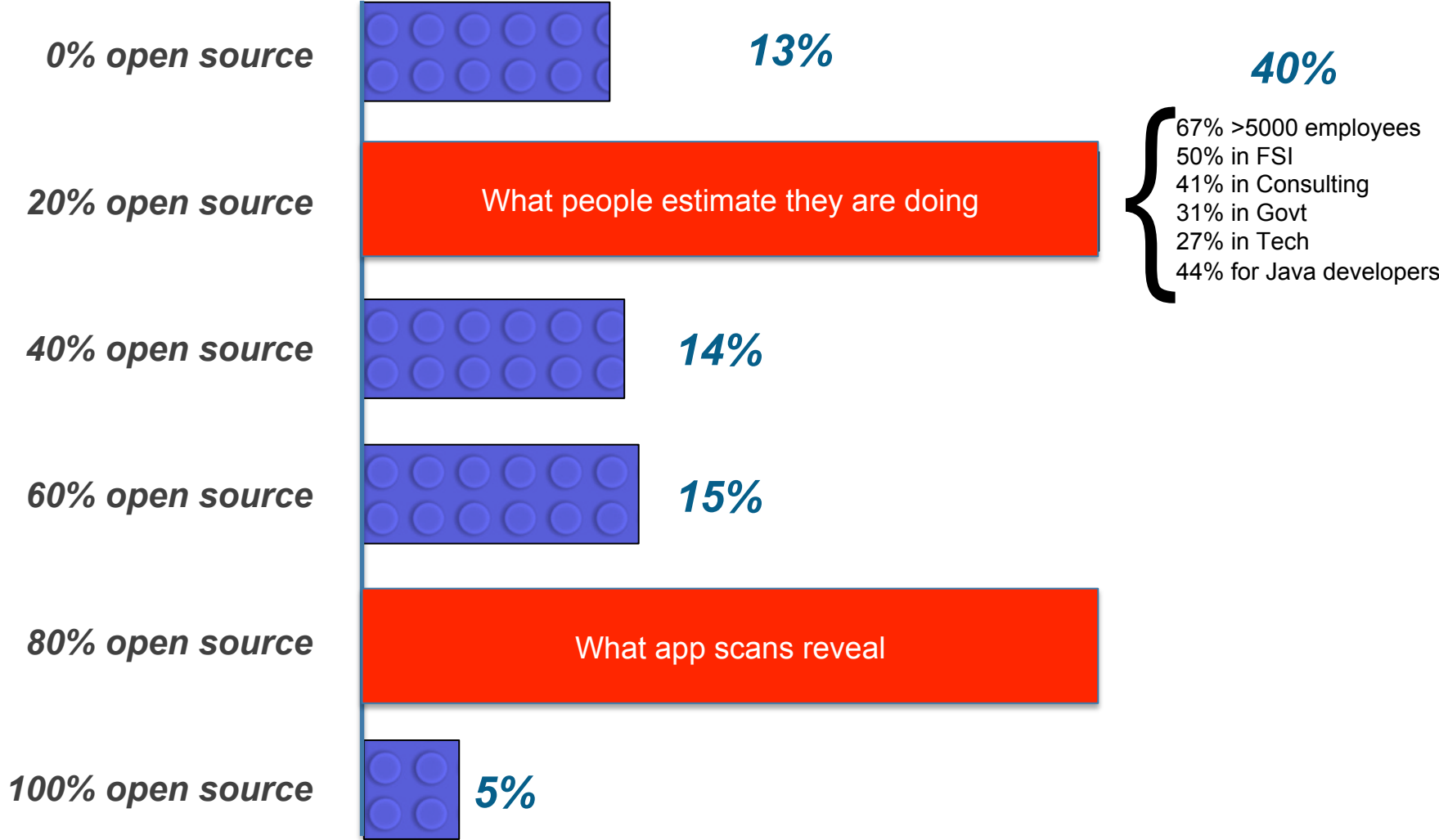
**6%**

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# Q9 - Percentage of open source software?

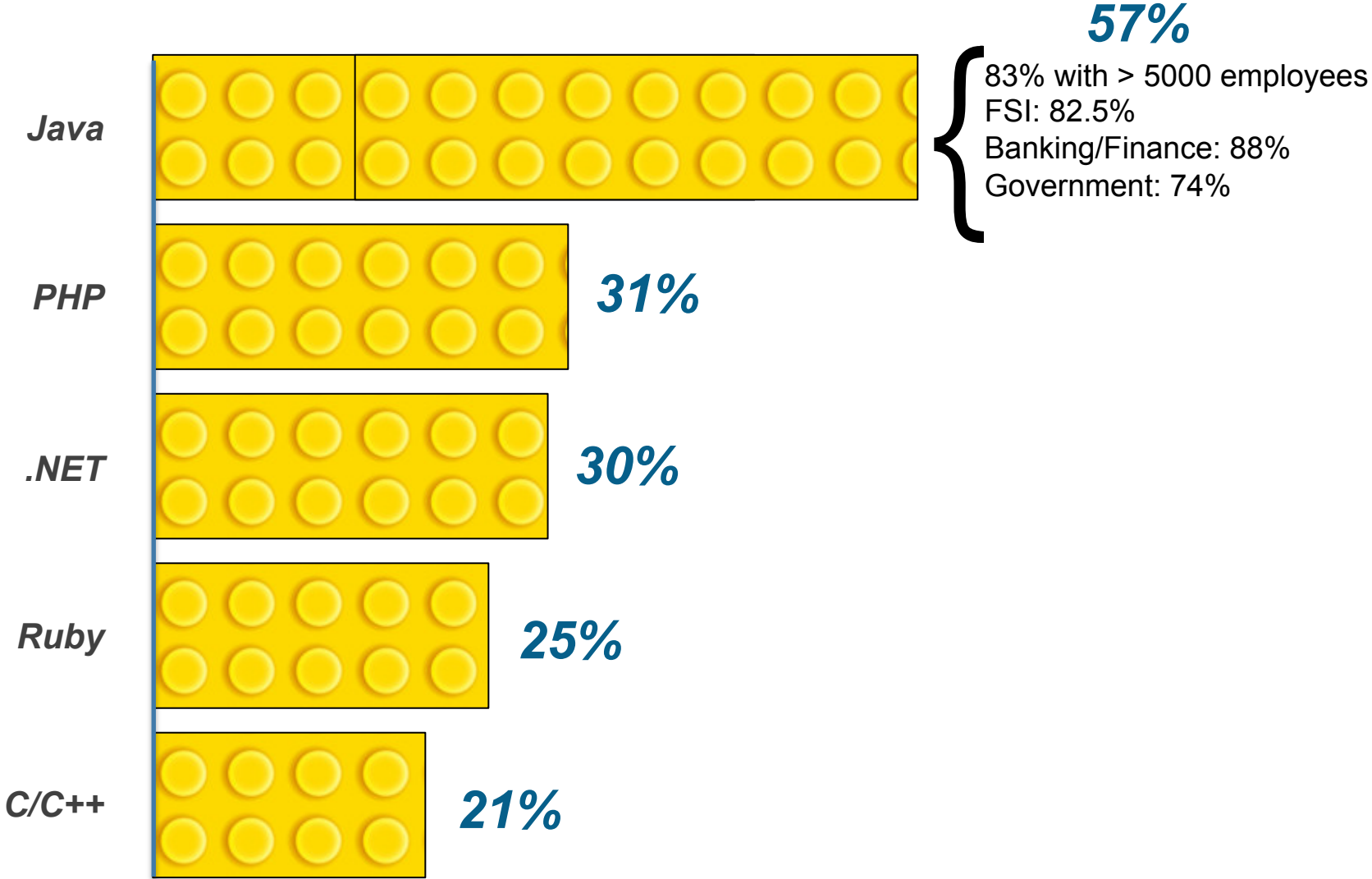


# Q9 - Percentage of open source software?

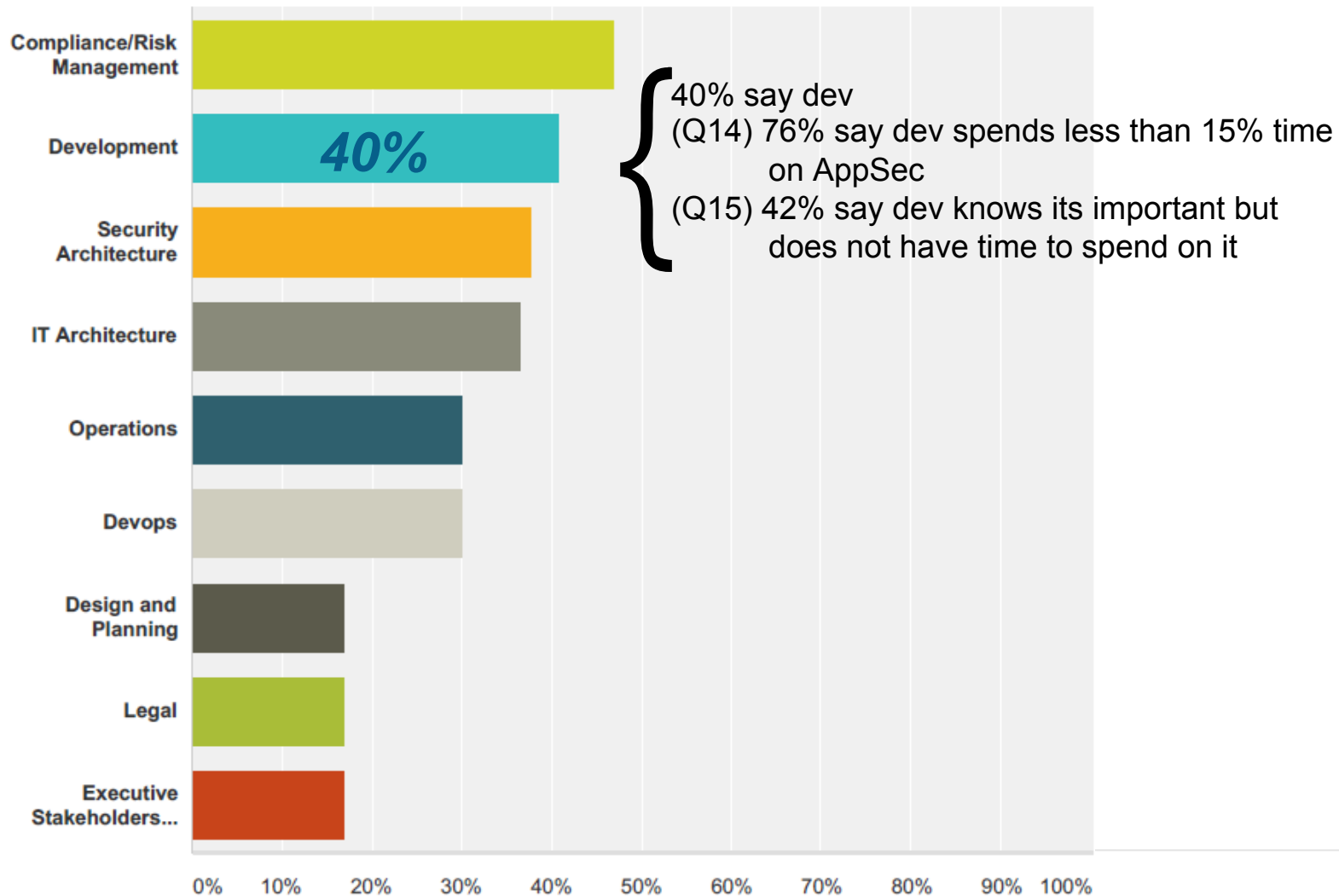




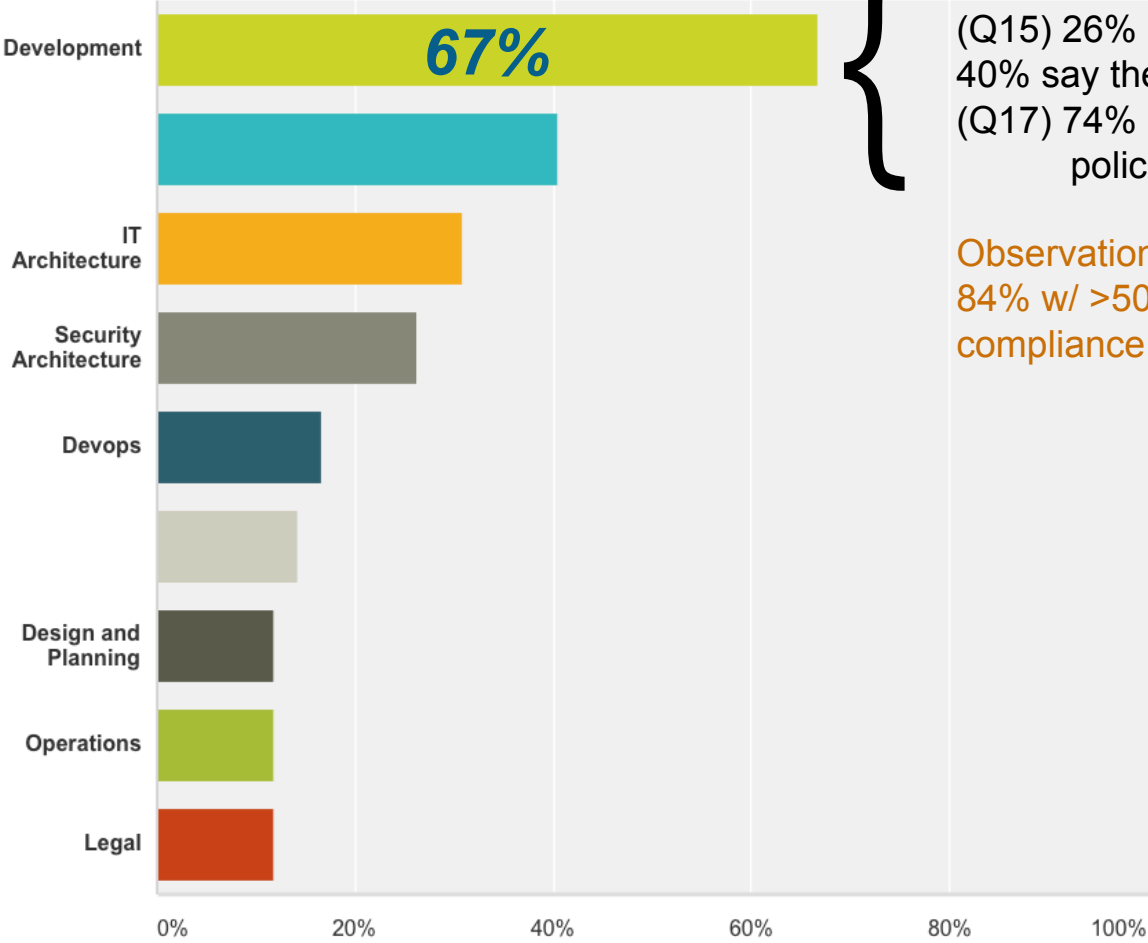
# Q10 - For custom development, what languages are used?



# Q11 - Who is the primary driver behind AppSec initiatives?



# Q11 - Who primarily drives AppSec initiatives? (filtered for developers only)



67% devs think they are the primary driver; (Q15) 26% say security is not their focus, 40% say they have no time to spend on it; (Q17) 74% state we have no policies or policies are not effectively enforced

Observations:  
84% w/ >5000 employees think it's compliance / risk management

# Q12 – Your role in AppSec? (1=not at all, 10 = highest priority)

w/ 101 – 1000 employees,  
76% rank security 8+ priority

Q17 – 67% employees feel there is no clear security policy or that policy is not effectively enforced.

Q13 - 74% state adherence to internal security policies is a top concern

	1	2	3	4	5	6	7	8	9	10	Total
On a scale of 1 to 10, how important do you consider security as a part of your job?	0% 0	3.13% 1	0% 0	0% 0	3.13% 1	6.25% 2	12.50% 4	9.38% 3	28.13% 9	37.50% 12	32

w/ >5000 employees,  
75% rank security 8+ priority

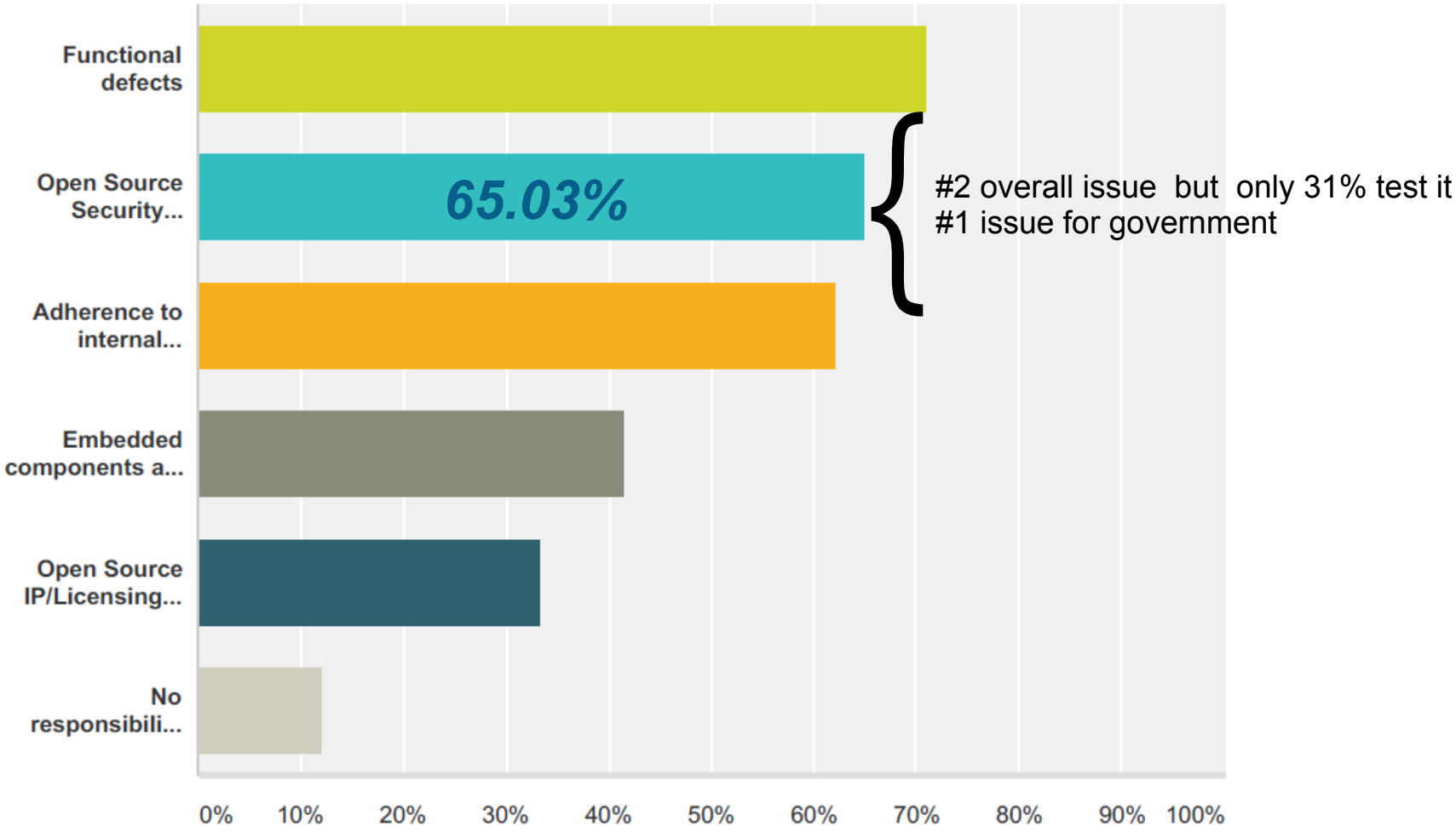
(Q17 – 58% of >5000 employees feel there is no clear security policy or that policy is not effectively enforced; 18% we don't have clear policies

81% state Adherence to internal security policies is a top concern

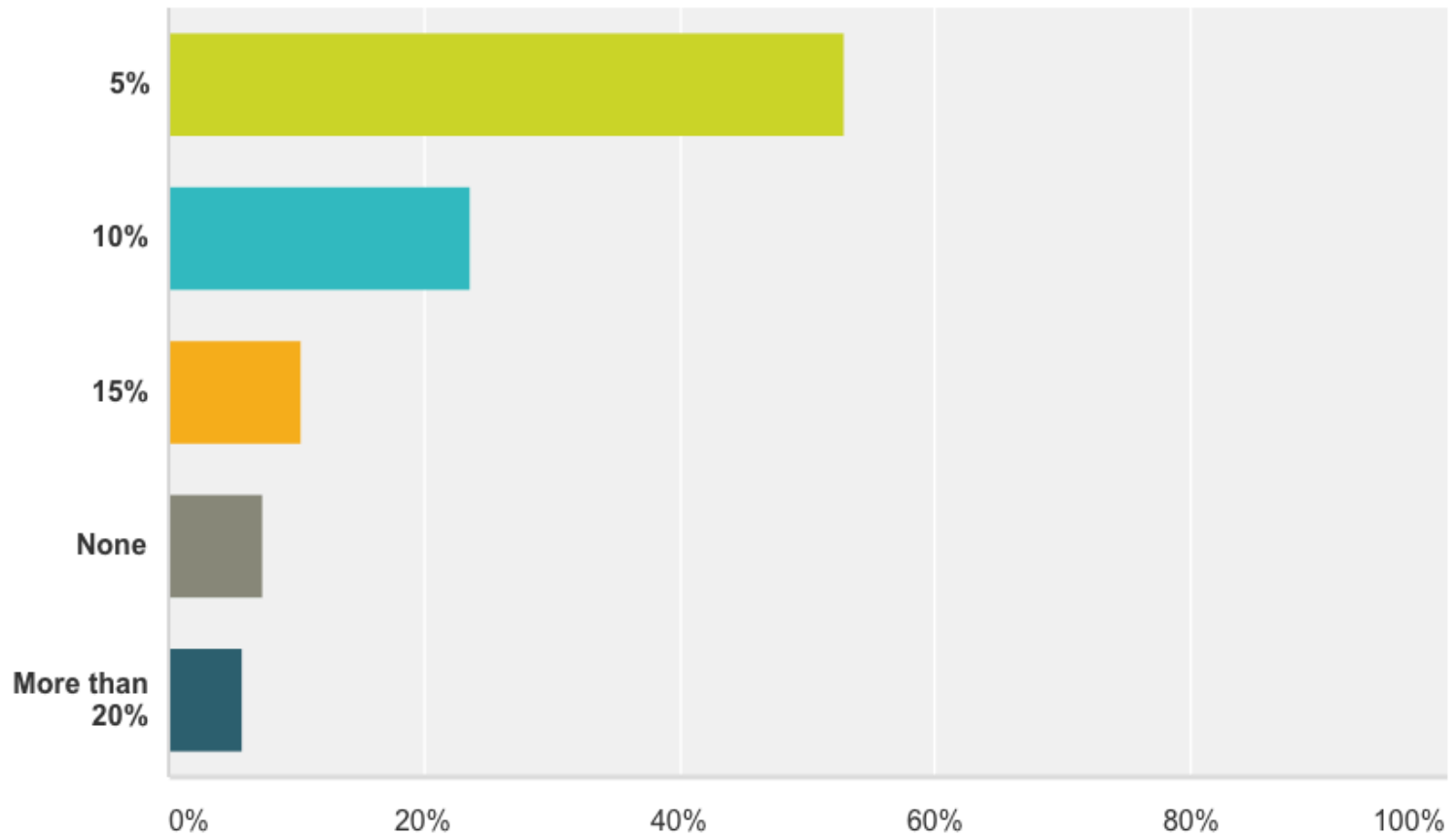
Conclusion: strong personal sense of responsibility, but little to not policies to enforce security standards; people make up their own standards

**Conclusion:**  
 “App Sec is important to me but we lack corporate policies so I’ll determine my own.”

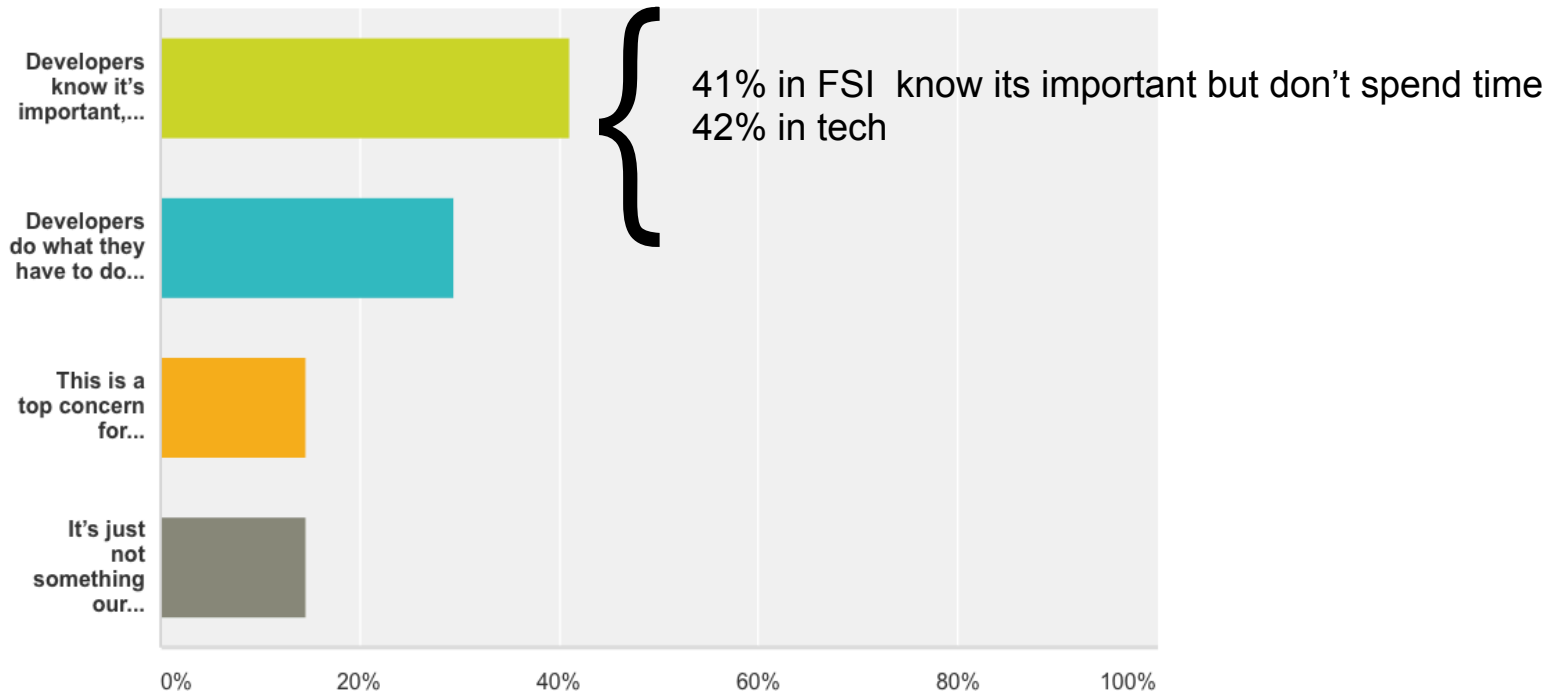
# Q13 - Are any of these security concerns?



# Q14 - How much time to developers spend on security?



# Q15 - Interest of in-house developers in regard to AppSec



# Q16 - When does App Dev spend time with security group?

<b>At the end of the development cycle</b>	<b>42.31%</b>
<b>During the design phase as a security review</b>	<b>33.97%</b>
<b>During the development phase</b>	<b>30.13%</b>
<b>The security team does not work with our developer team</b>	<b>29.49%</b>
<b>Security checks are embedded throughout the entire process</b>	<b>23.72%</b>

## Observations:

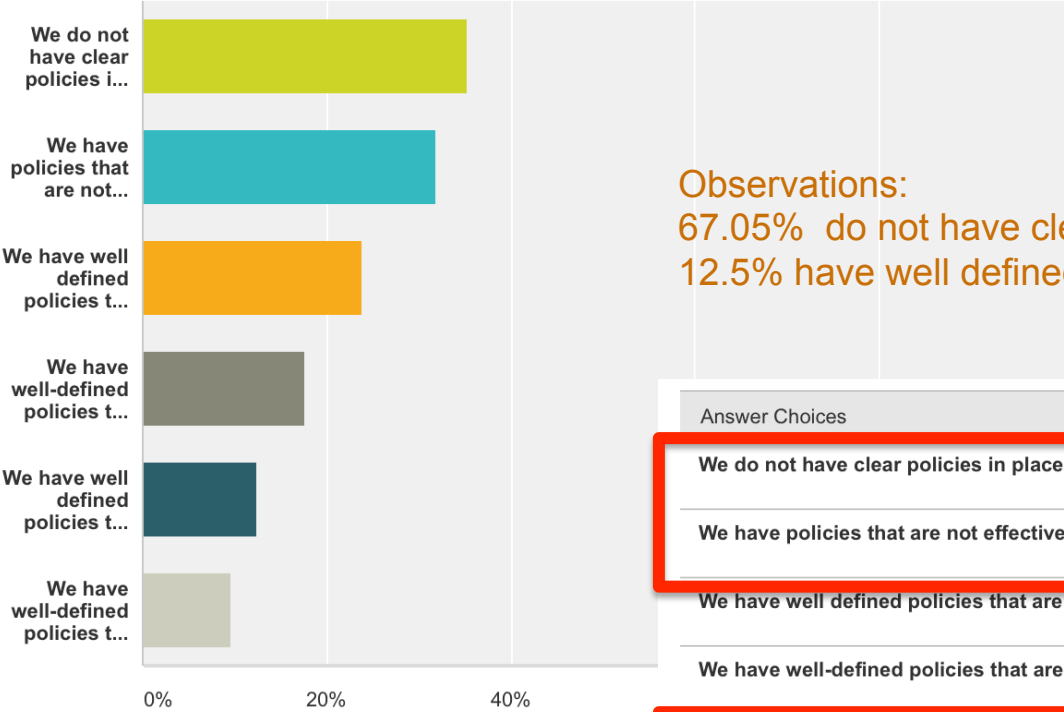
23% say security checks happen, but (Q17) Only 12% have automated

End of development cycle - 62% in government (#1 answer), 47% in financial services

Historically, 'end of development cycle' is the most expensive option



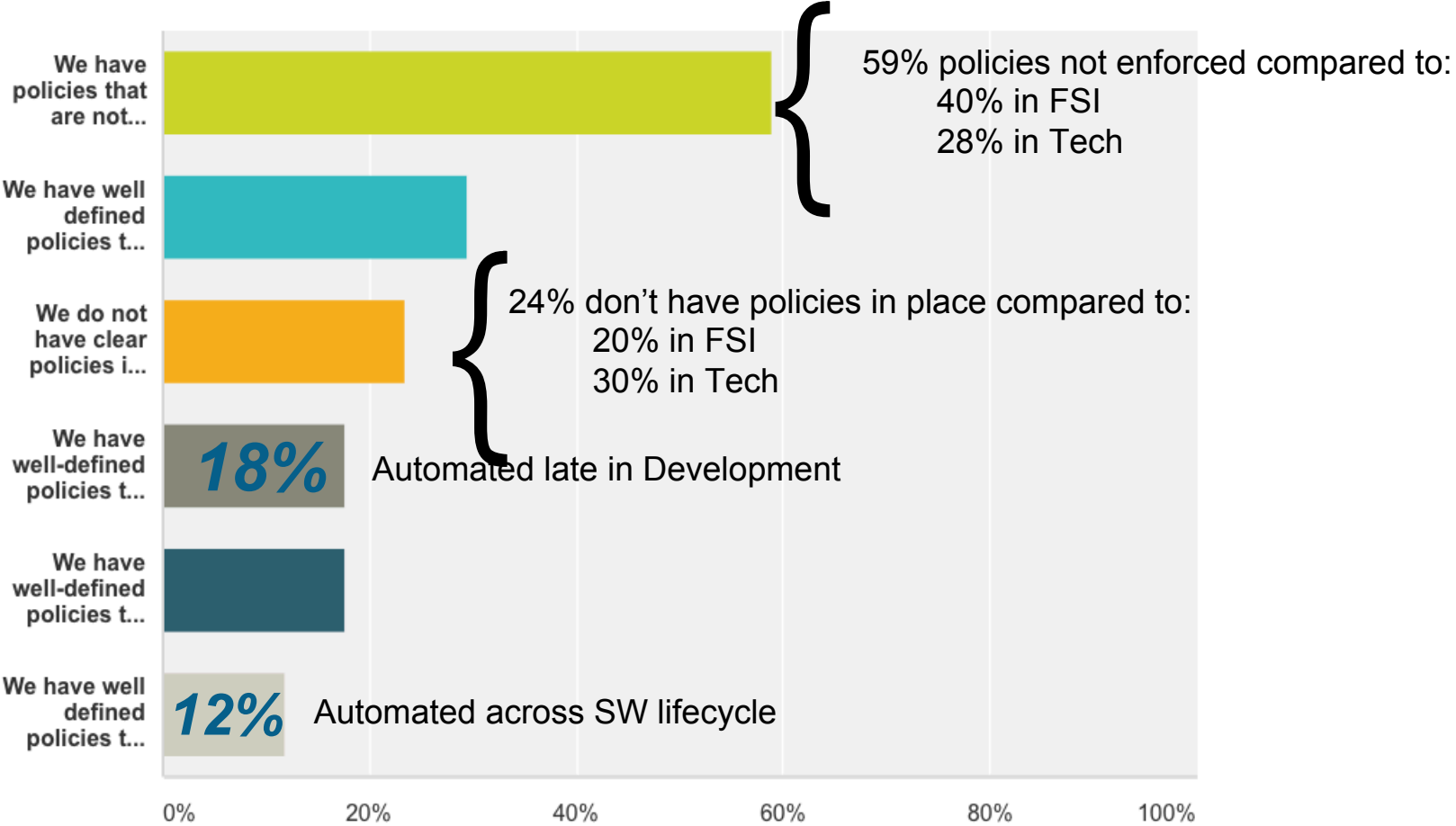
# Q17 - Describe your current app security policies (Overall)



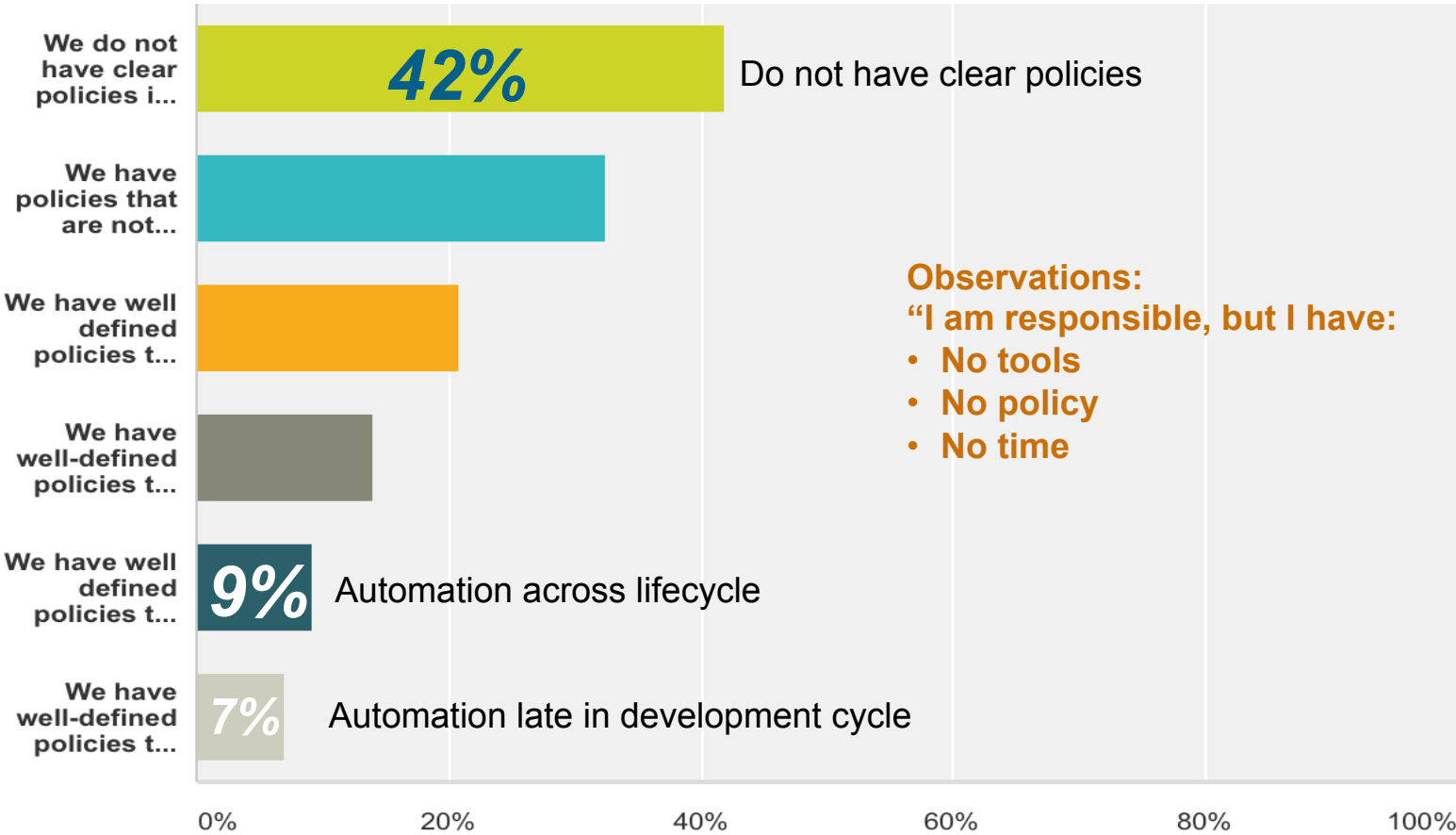
Observations:  
 67.05% do not have clear, well defined, enforced policies  
 12.5% have well defined, automated policies

Answer Choices	Responses
We do not have clear policies in place	35.23% 62
We have policies that are not effectively enforced	31.82% 56
We have well defined policies that are manually enforced across the software lifecycle	23.86% 42
We have well-defined policies that are manually enforced late in the development lifecycle	17.61% 31
We have well defined policies that are enforced through automation across the software lifecycle	12.50% 22
We have well-defined policies that are enforced through automation late in the development lifecycle	9.66% 17
Total Respondents: 176	

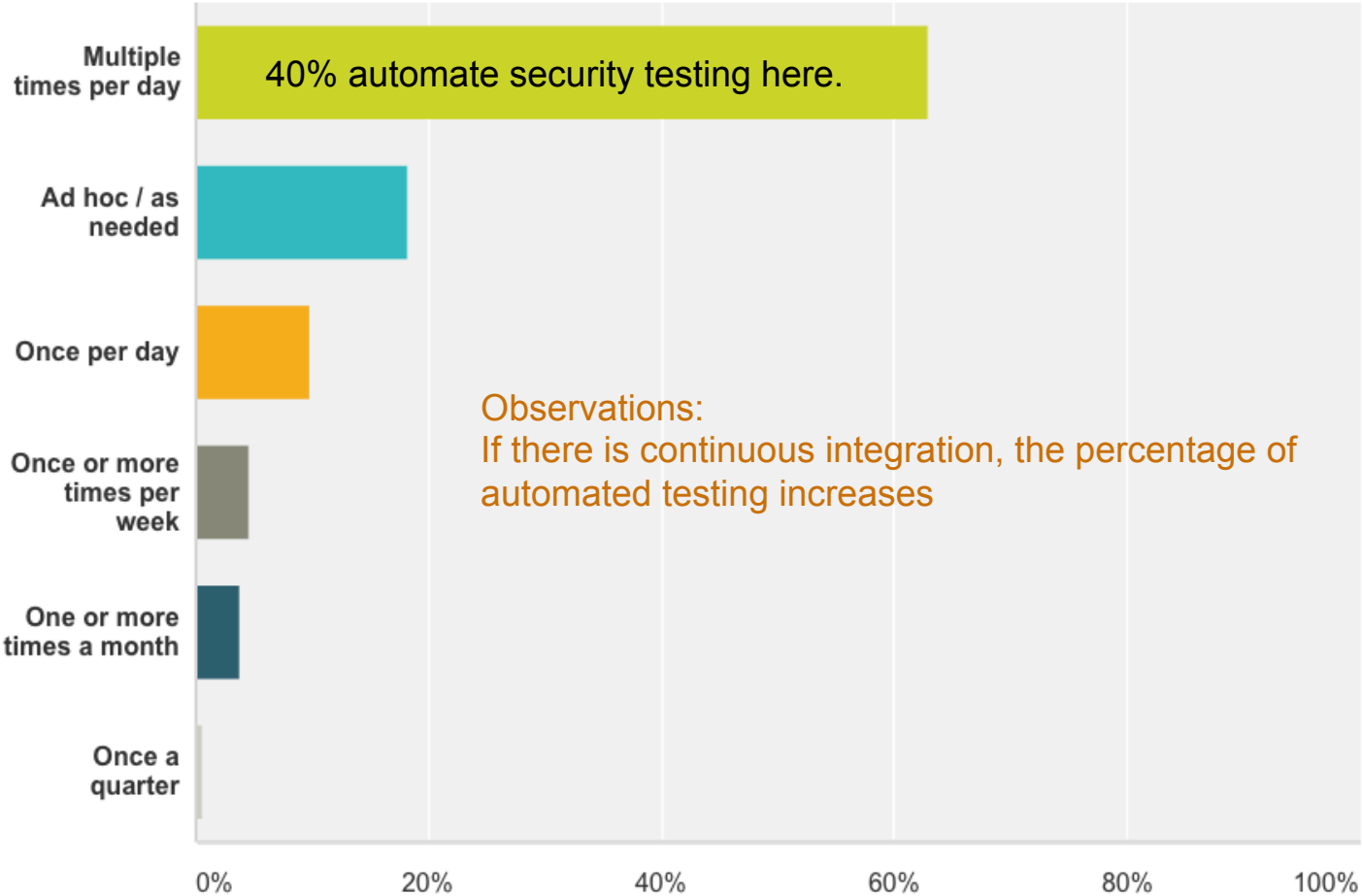
# Q17 - Describe your current app security policies (filtered for government)



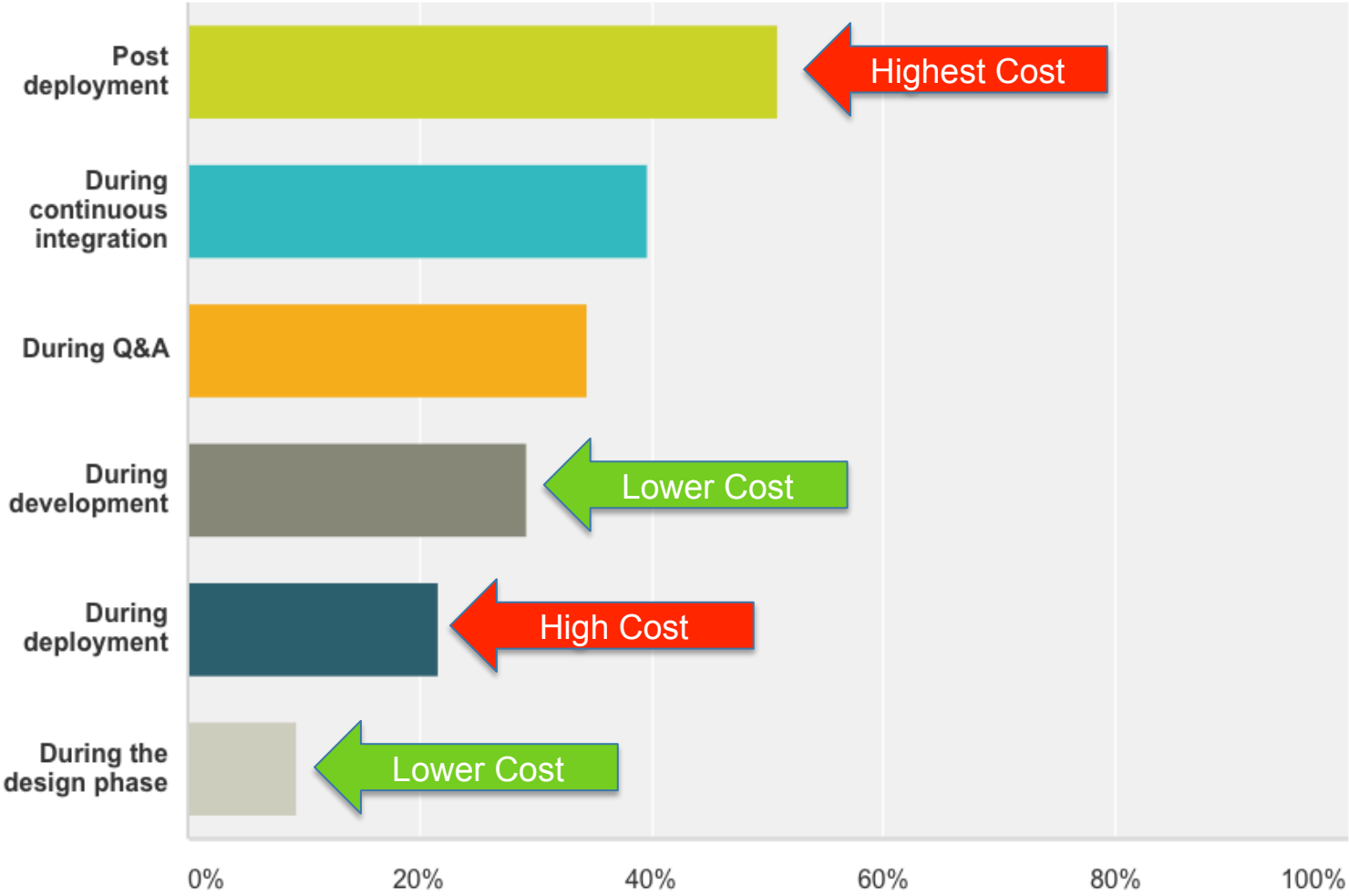
# Q17 - Describe your current app security policies (Developers only)



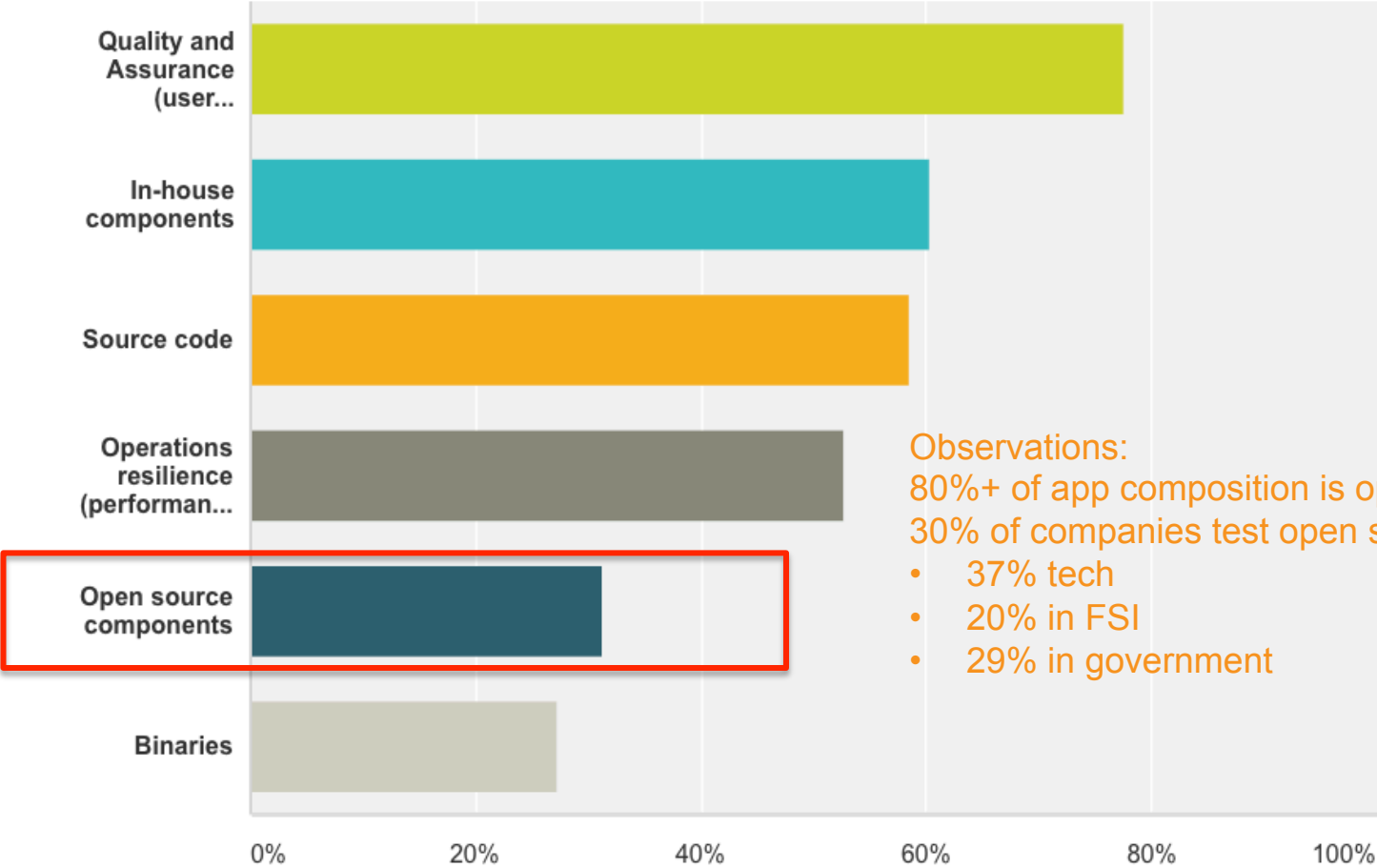
# Q20 - If doing CI, how often is code compiled?



# Q23 - Where is security testing automated?



# Q18 - What are you testing?



# Summary



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