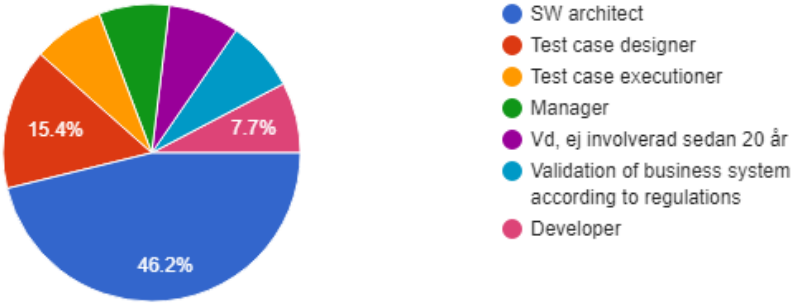
Comparison of Good test cases as perceived by 13 software test specialists in Swedish industry and 18 software test specialists participating at the RET 2018 workshop

The following text is a short comparison of the results from the paper "Test case quality as perceived in Sweden" that was presented at the Requirements Engineering and Testing workshop that took place in Gothenburg on June 2nd, 2018, and the X-ray activity that consisted in performing the same survey as the one presented in the paper during the workshop.

Input from the questionnaire answered by the Swedish specialists

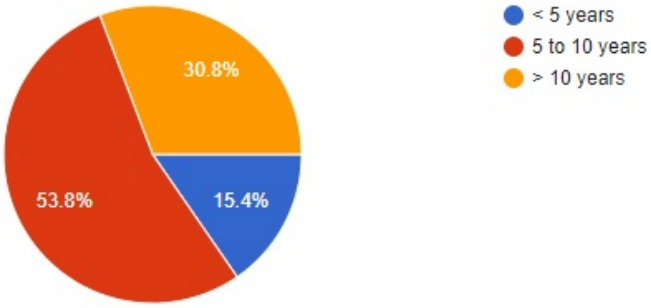
1. What is your involvement in software testing?

13 responses



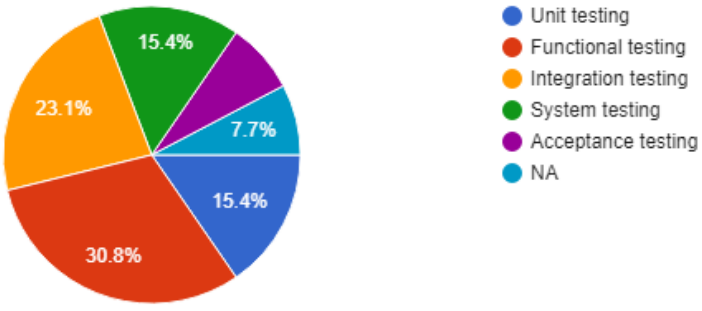
2. What is your experience within software testing?

13 responses



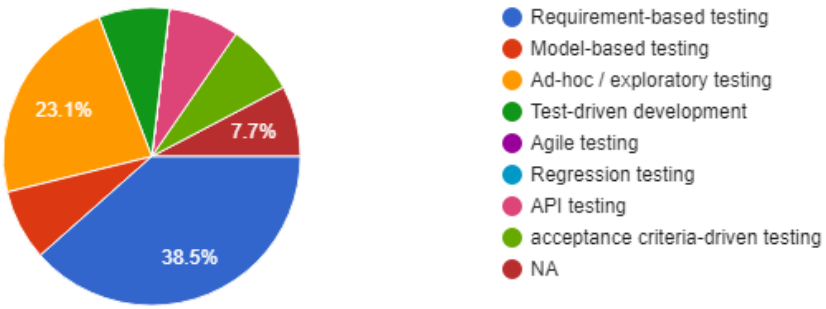
3. What kind of testing have you mainly been involved in?

13 responses



4. What type of test style/type have you mainly been involved in?

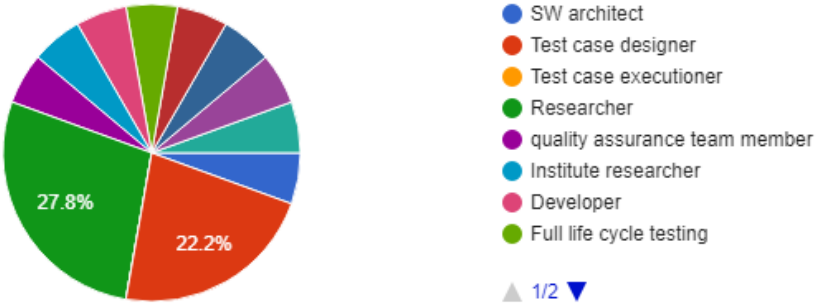
13 responses



Input from the questionnaire answered by the workshop specialists

1. What is your involvement in software testing?

18 responses



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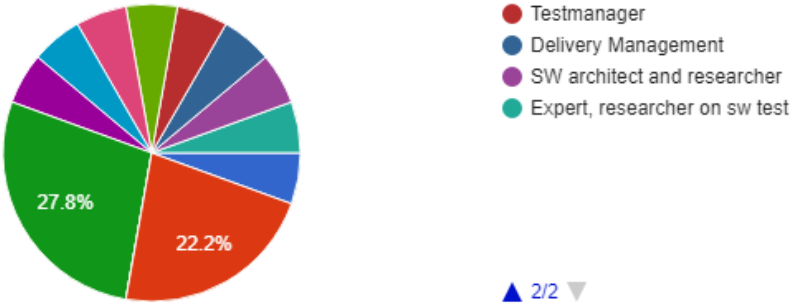
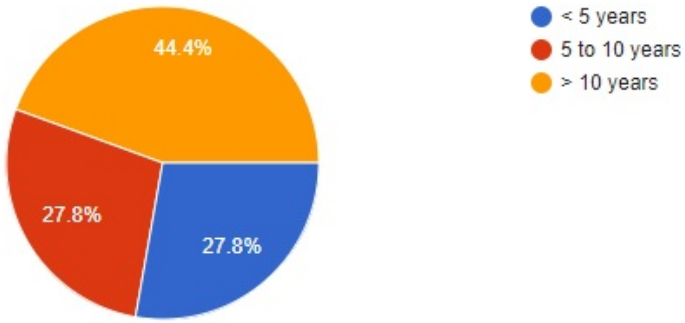


2. What is your experience within software testing?

18 responses



3. What kind of testing have you mainly been involved in?

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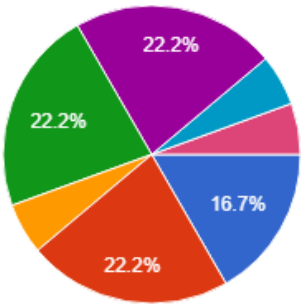
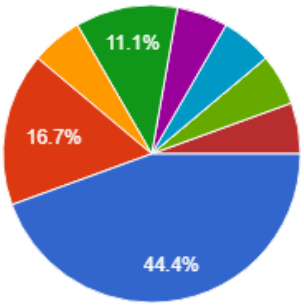


- Unit testing
- Functional testing
- Integration testing
- System testing
- Acceptance testing
- acceptance/system testing
- All of the above ++ (you miss serveras "kinds"

4. What type of test style/type have you mainly been involved in?

18 responses



- Requirement-based testing
- Model-based testing
- Ad-hoc / exploratory testing
- Test-driven development
- Agile testing
- Regression testing
- API testing
- Search-based generation
- Al of the above ++ see e.g. My testning "On test design" in diva 2011

Comparison between the two surveys

What is your involvement in testing?

The two most common backgrounds for the Swedish industry specialists were software architects (46,2%) and test case designers (15,4%).

The two most common backgrounds for the workshop attendants were researchers (27,8%) and test case designers (22,2%).

What is your experience within software testing?

Swedish industry specialists:

Less than 5 years: 15,4%

5 to 10 years: 53,8%

More than 10 years: 30,8%

Workshop attendants:

Less than 5 years: 27,8%

5 to 10 years: 27,8%

More than 10 years: 44,4%

What kind of testing have you mainly been involved in?

The two most common involvements for the Swedish industry specialists were functional testing (30,8%) and integration testing (23,1%).

The three most common involvements for the workshop attendants were functional testing (22,2%), system testing (22,2%) and acceptance testing (22,2%).

What type of test style/type have you mainly been involved in?

The two most common test styles/types for the Swedish industry specialists were requirement-based testing (38,5%) and add hoc/exploratory testing (23,1%).

The two most common test styles/types for the workshop attendants were requirement-based testing (44,4%) and model-based testing (16,7%).

Findings

The differences between the backgrounds of the two groups are relatively small to be able to draw any deeper conclusions. In relation to the answers as to the importance of the 15 different criteria the following results were compiled.

	Average		Ranking		Combined	Ranking
	Question.	RET 2018	Question.	RET 2018		
Accurate	8,38	9	2	2	8,69	2
Efficient	6,31	6,44	11	13	6,38	11
Independent	5,85	6,22	13	12	6,04	14
Maintainable	7,38	7,61	5	7	7,50	5
Repeatable	9,23	8,83	1	3	9,03	1
Reusable	6,46	7,78	9	5	7,12	7
Correct	8,08	9,28	3	1	8,68	3
Clear	6,15	7,61	12	6	6,88	8
Complete	7,15	6,5	6	11	6,83	10
Covering	5,62	6,5	14	10	6,06	13
Consistent	6,85	6,83	8	9	6,84	9
Simple	6,31	6,17	10	14	6,24	12
Powerful	7,46	7,11	4	8	7,29	6
Traceable	7,15	8,56	7	4	7,86	4
Compact	4,54	4,89	15	15	4,72	15

The three most highly ranked criteria, i.e. Correct, Repeatable and Accurate, are the same for both test groups, as is the lowest ranked criterion, i.e. Compact, that also was the same for both test groups. Unfortunately, the remaining eleven criteria differ too much to be able to draw any deeper conclusions as to their importance.