

## Q1 Name of the institution

Answered: 191 Skipped: 0

## Q2 Country (where your institution is located)

Answered: 191 Skipped: 0

## Q3 Name of the respondent

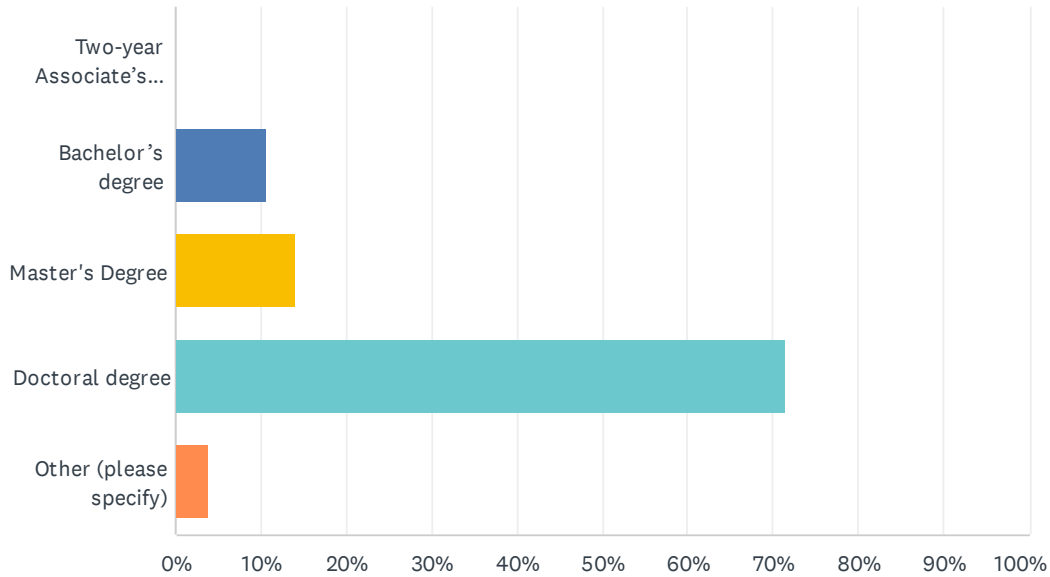
Answered: 191 Skipped: 0

Q4 Please enter your email address - it will be used only for the raffle.

Answered: 186 Skipped: 5

## Q5 Please indicate the highest degree offered in Computer Science by your institution.

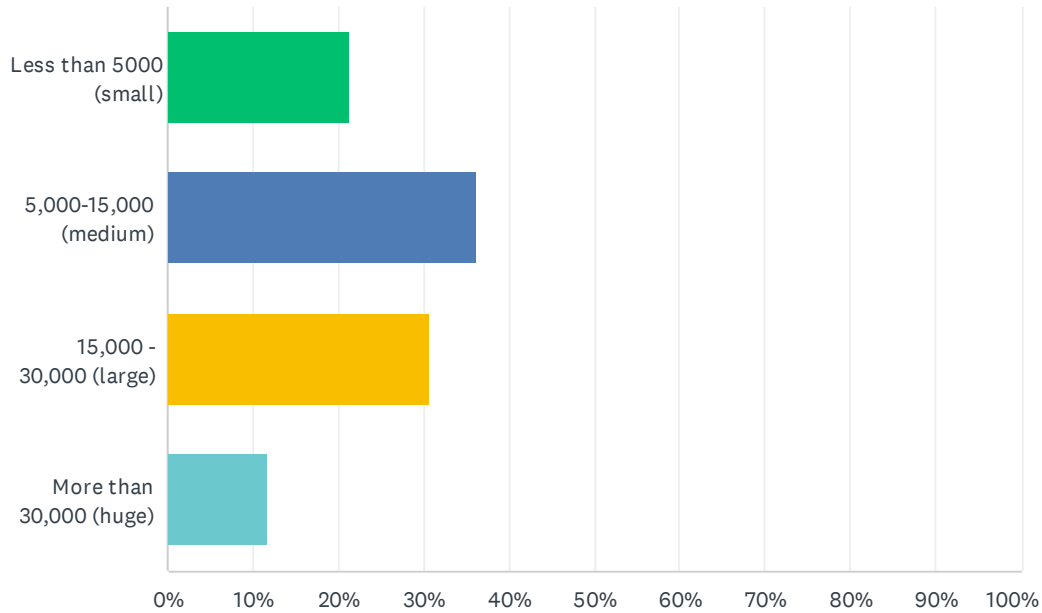
Answered: 179 Skipped: 12



ANSWER CHOICES	RESPONSES
Two-year Associate's degree	0.00% 0
Bachelor's degree	10.61% 19
Master's Degree	13.97% 25
Doctoral degree	71.51% 128
Other (please specify)	3.91% 7
<b>TOTAL</b>	<b>179</b>

### Q6 Please indicate the size of your institution's total undergraduate (all majors) population.

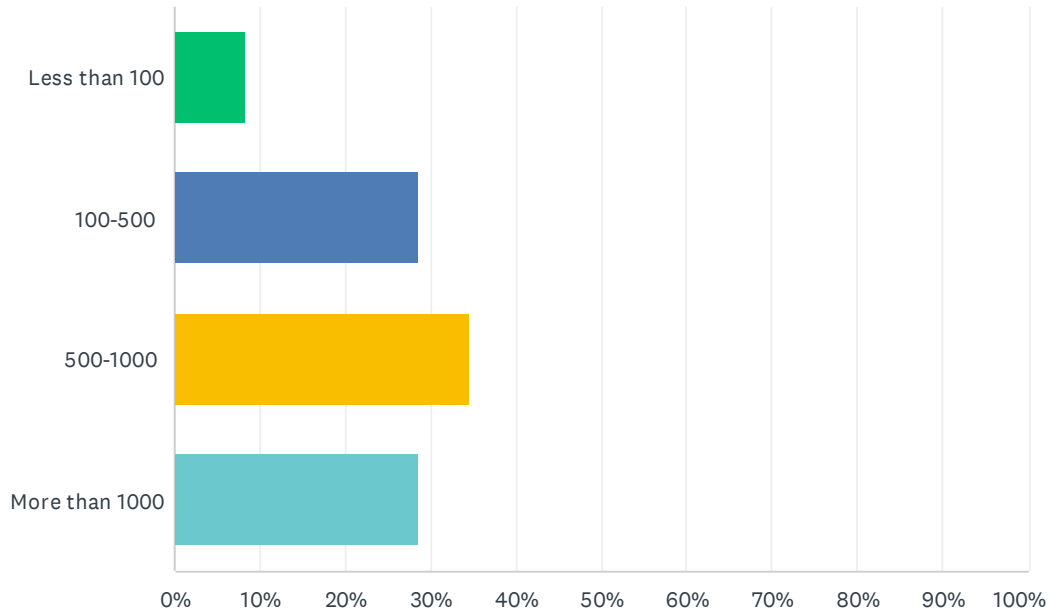
Answered: 179 Skipped: 12



ANSWER CHOICES	RESPONSES	
Less than 5000 (small)	21.23%	38
5,000-15,000 (medium)	36.31%	65
15,000 - 30,000 (large)	30.73%	55
More than 30,000 (huge)	11.73%	21
TOTAL		179

## Q7 Please indicate the size of your total undergraduate computer science student population.

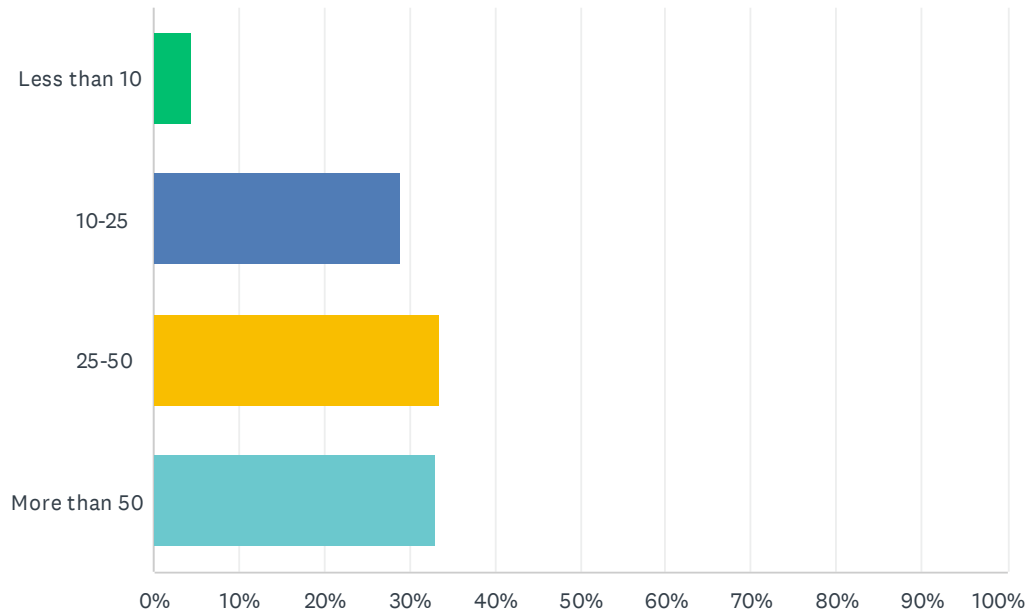
Answered: 179 Skipped: 12



ANSWER CHOICES	RESPONSES	
Less than 100	8.38%	15
100-500	28.49%	51
500-1000	34.64%	62
More than 1000	28.49%	51
TOTAL		179

**Q8 Please indicate the full-time equivalent (FTE) size of your faculty (including part-time/adjuncts) teaching in your undergraduate computer science program.**

Answered: 179 Skipped: 12

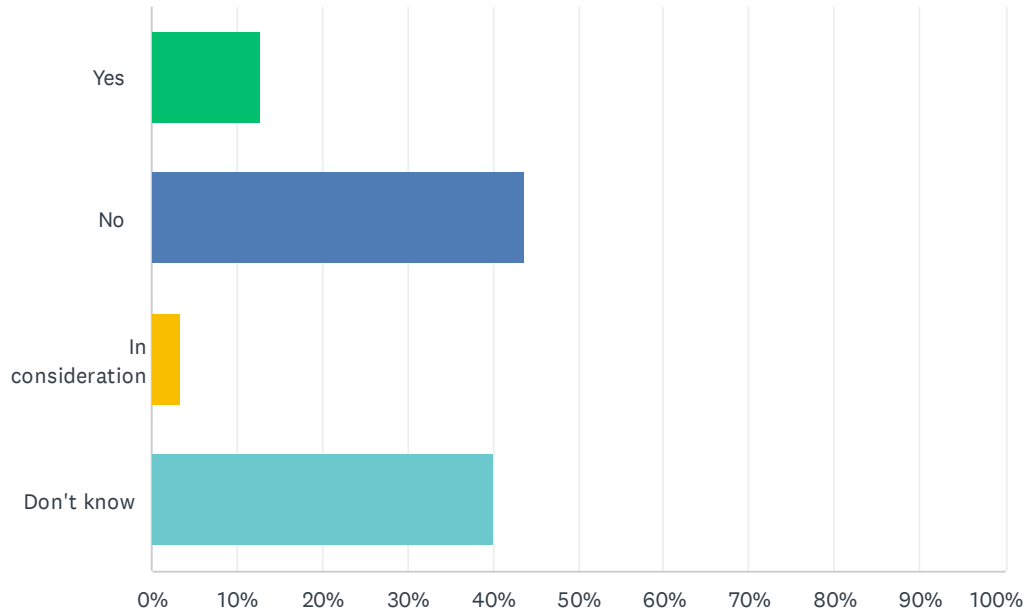


ANSWER CHOICES	RESPONSES	
Less than 10	4.47%	8
10-25	29.05%	52
25-50	33.52%	60
More than 50	32.96%	59
TOTAL		179



## Q9 Is your undergraduate degree program in Computer Science ABET-accredited?

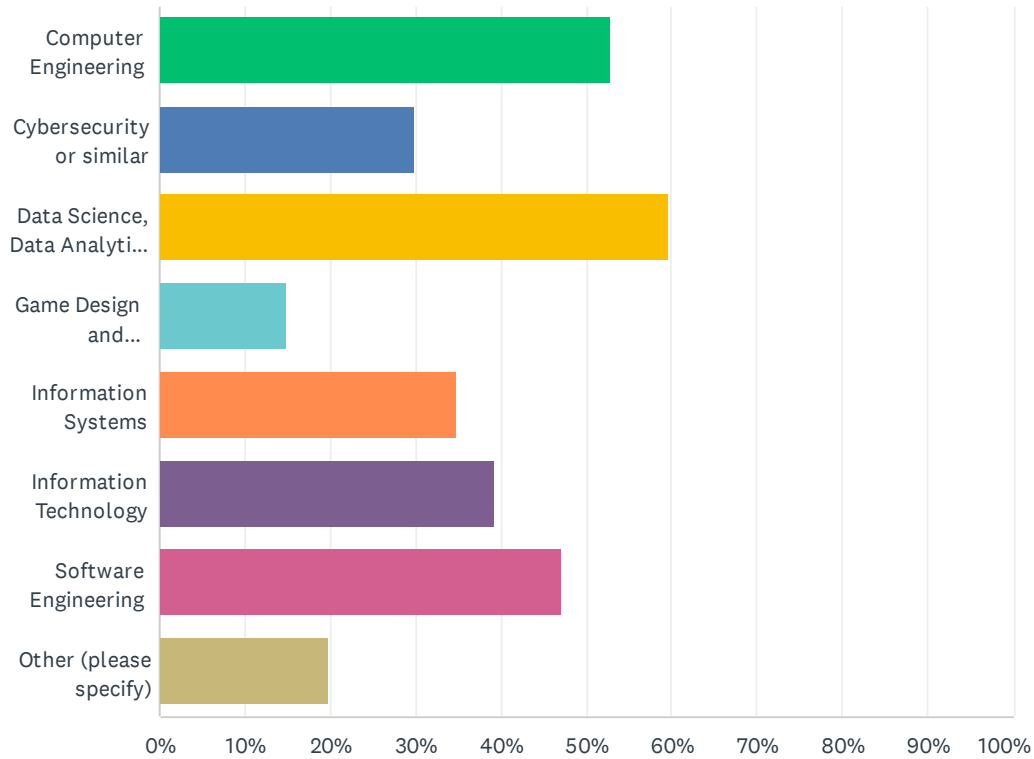
Answered: 172 Skipped: 19



ANSWER CHOICES	RESPONSES	
Yes	12.79%	22
No	43.60%	75
In consideration	3.49%	6
Don't know	40.12%	69
TOTAL		172

## Q10 Please select other computing degrees offered by your institution. (Select all choices that apply):

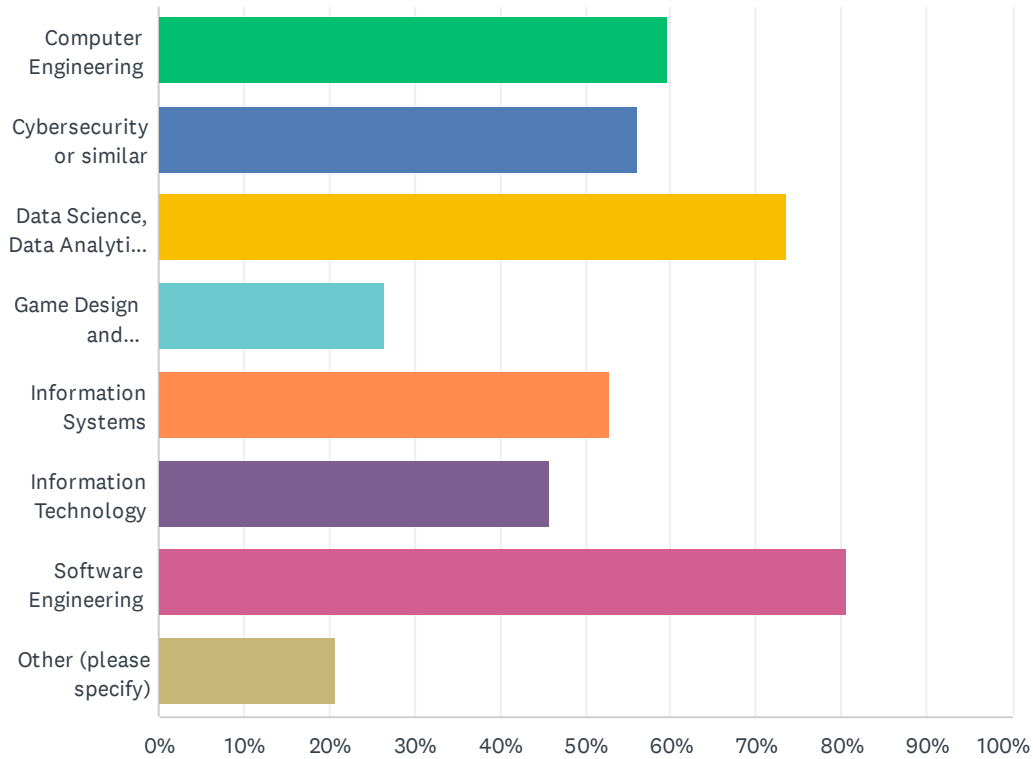
Answered: 161 Skipped: 30



ANSWER CHOICES	RESPONSES	
Computer Engineering	52.80%	85
Cybersecurity or similar	29.81%	48
Data Science, Data Analytics, or similar	59.63%	96
Game Design and Development, or similar	14.91%	24
Information Systems	34.78%	56
Information Technology	39.13%	63
Software Engineering	47.20%	76
Other (please specify)	19.88%	32
Total Respondents: 161		

## Q11 Please select all the tracks and concentrations within computer science offered by your institution (select all choices that apply):

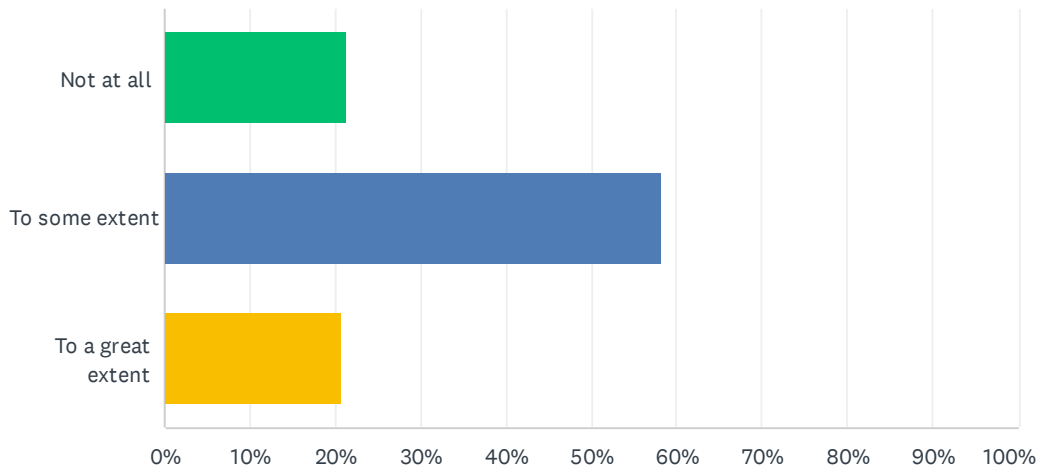
Answered: 159 Skipped: 32



ANSWER CHOICES	RESPONSES	
Computer Engineering	59.75%	95
Cybersecurity or similar	55.97%	89
Data Science, Data Analytics, or similar	73.58%	117
Game Design and Development, or similar	26.42%	42
Information Systems	52.83%	84
Information Technology	45.91%	73
Software Engineering	80.50%	128
Other (please specify)	20.75%	33
Total Respondents: 159		

## Q12 To what extent did CS2013 influence your program?

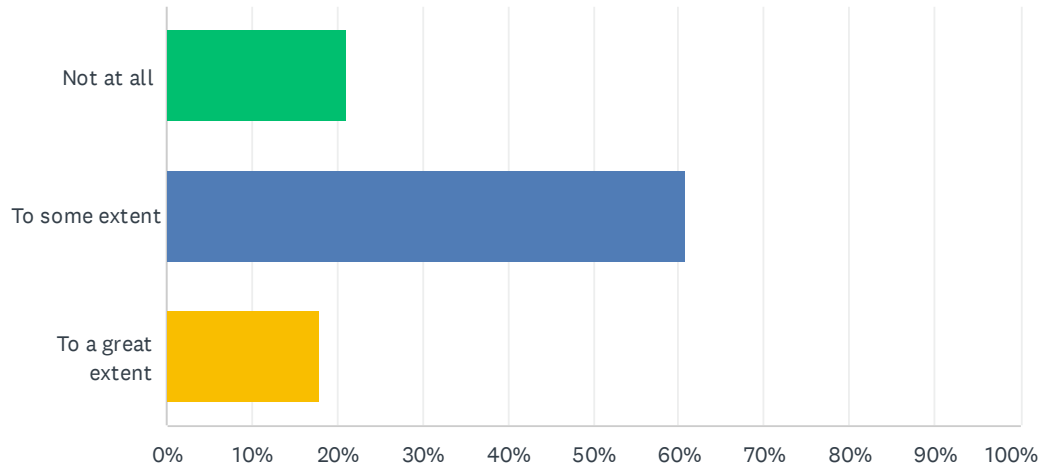
Answered: 160 Skipped: 31



ANSWER CHOICES	RESPONSES	
Not at all	21.25%	34
To some extent	58.13%	93
To a great extent	20.63%	33
<b>TOTAL</b>		<b>160</b>

### Q13 How familiar with CS2013 are the faculty most responsible for your undergraduate curriculum?

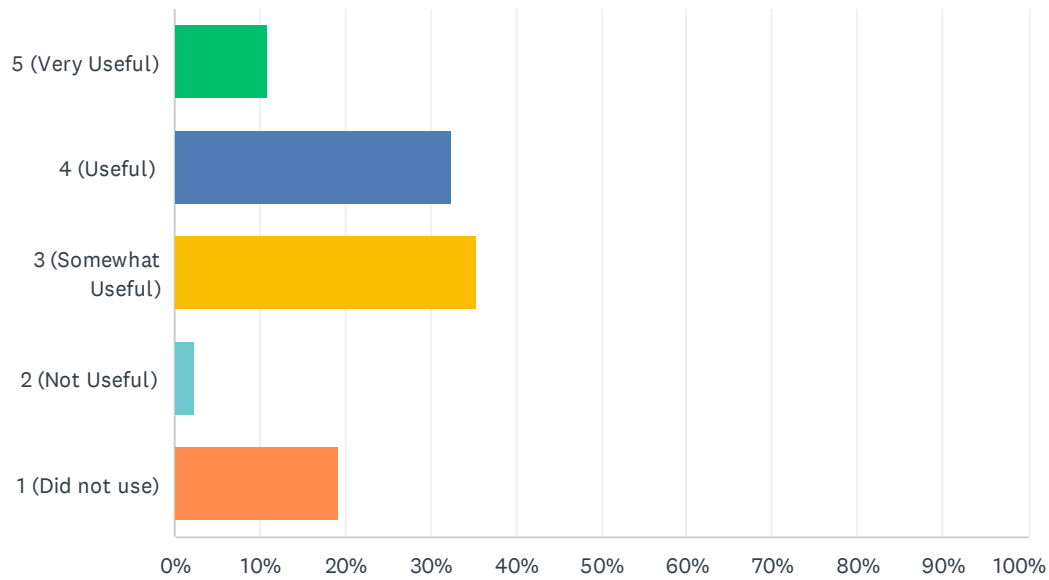
Answered: 161 Skipped: 30



ANSWER CHOICES	RESPONSES	
Not at all	21.12%	34
To some extent	60.87%	98
To a great extent	18.01%	29
<b>TOTAL</b>		<b>161</b>

## Q14 Chapter 1 Introduction

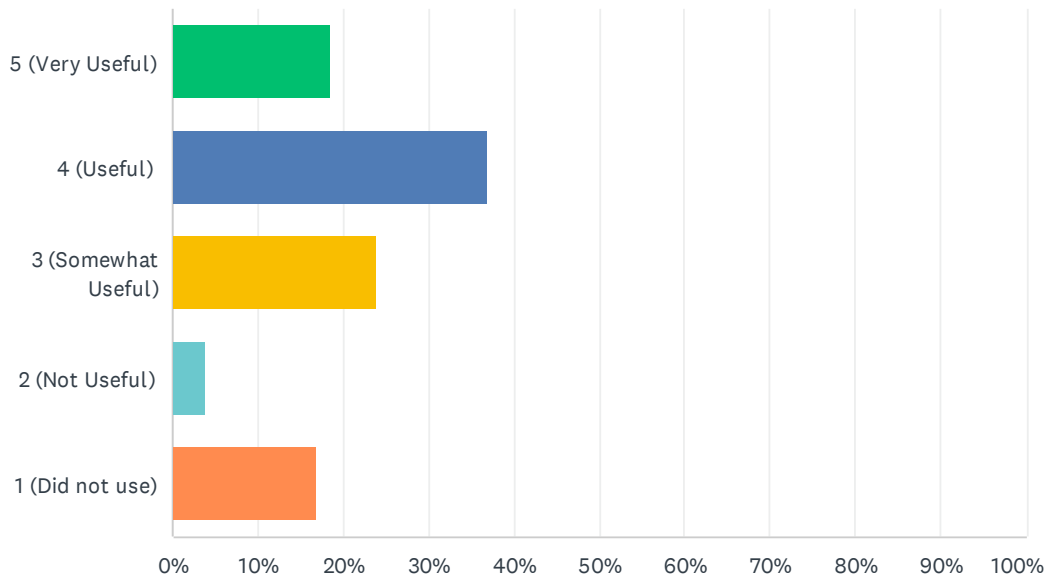
Answered: 130 Skipped: 61



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	10.77%	14
4 (Useful)	32.31%	42
3 (Somewhat Useful)	35.38%	46
2 (Not Useful)	2.31%	3
1 (Did not use)	19.23%	25
TOTAL		130

## Q15 Chapter 2 Principles

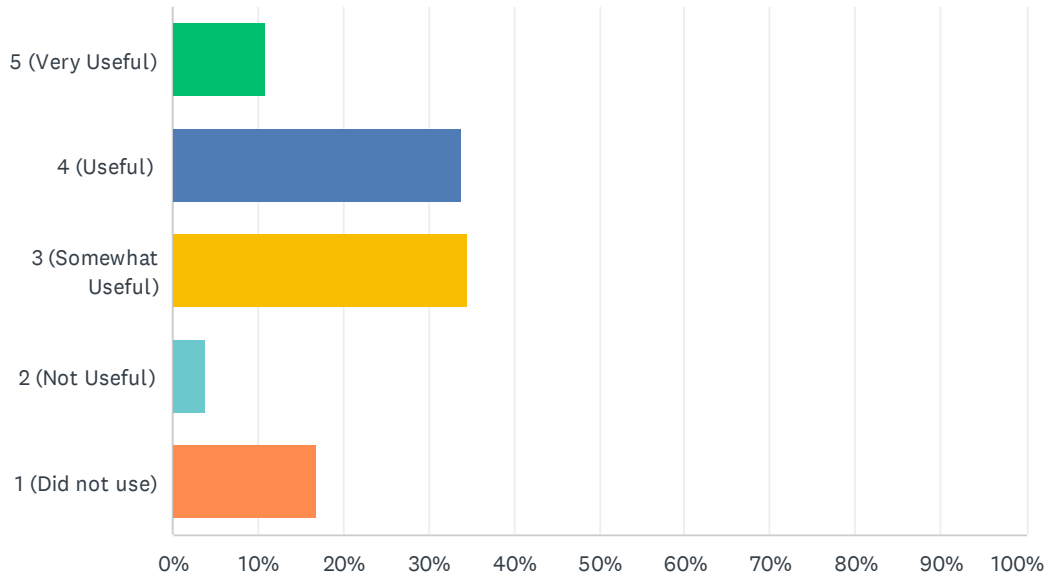
Answered: 130 Skipped: 61



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	18.46%	24
4 (Useful)	36.92%	48
3 (Somewhat Useful)	23.85%	31
2 (Not Useful)	3.85%	5
1 (Did not use)	16.92%	22
<b>TOTAL</b>		<b>130</b>

## Q16 Chapter 3 Characteristics of Graduates

Answered: 130 Skipped: 61

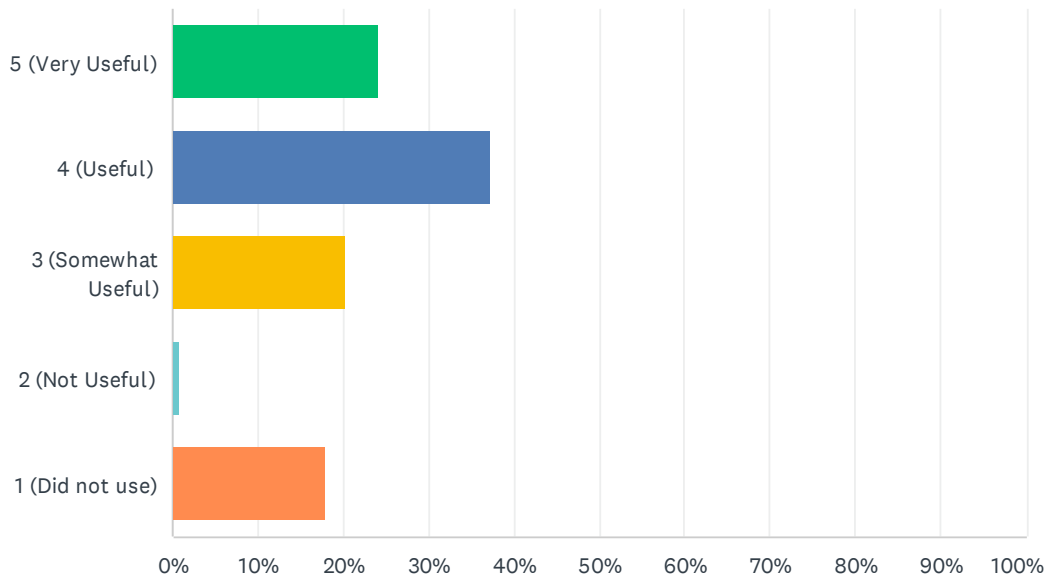


ANSWER CHOICES	RESPONSES	
5 (Very Useful)	10.77%	14
4 (Useful)	33.85%	44
3 (Somewhat Useful)	34.62%	45
2 (Not Useful)	3.85%	5
1 (Did not use)	16.92%	22
<b>TOTAL</b>		<b>130</b>



## Q17 Chapter 4 Introduction to the Body of Knowledge

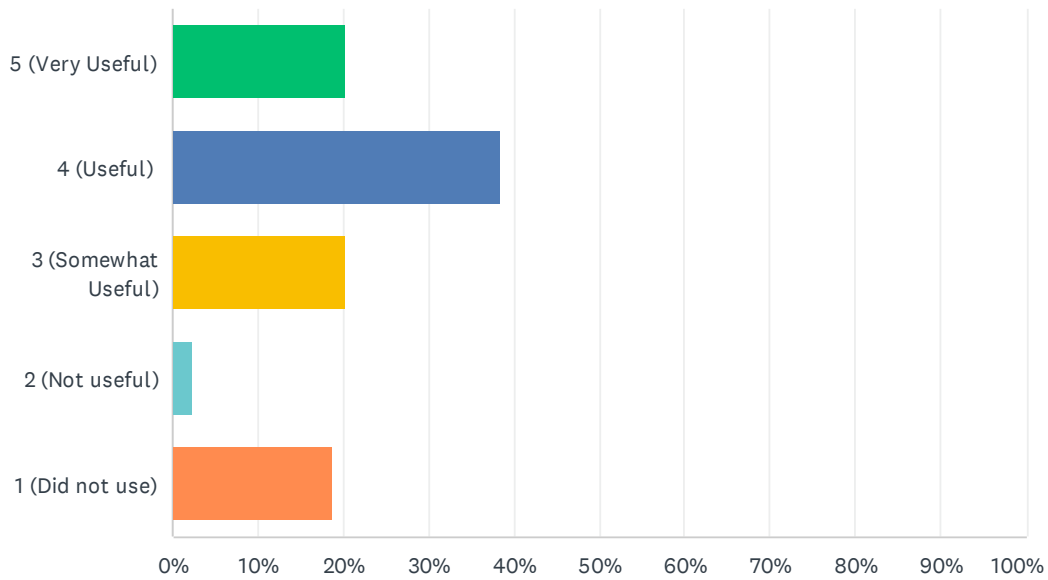
Answered: 129 Skipped: 62



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	24.03%	31
4 (Useful)	37.21%	48
3 (Somewhat Useful)	20.16%	26
2 (Not Useful)	0.78%	1
1 (Did not use)	17.83%	23
<b>TOTAL</b>		<b>129</b>

## Q18 Chapter 5 Introductory Courses

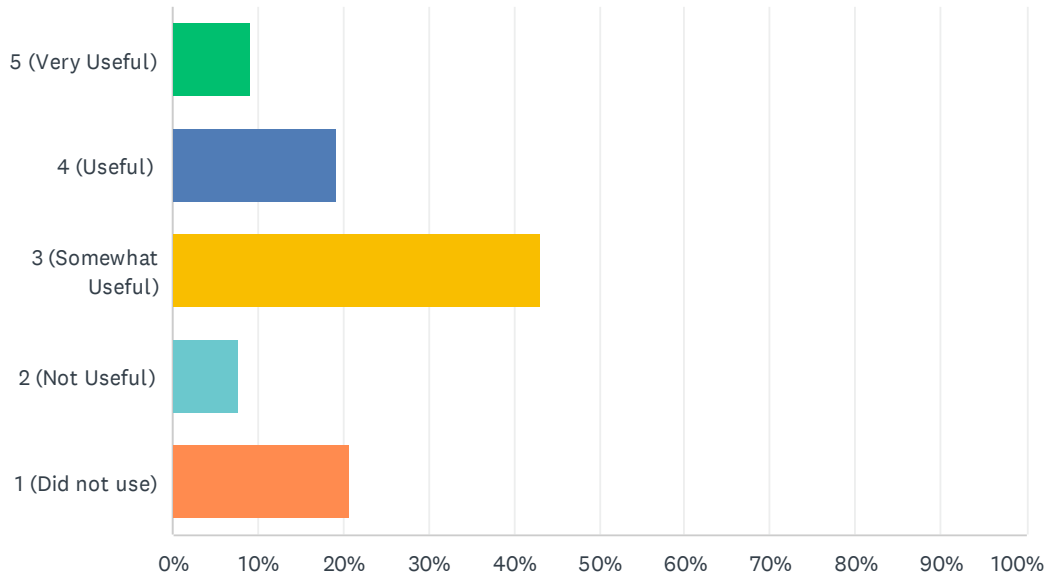
Answered: 128 Skipped: 63



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	20.31%	26
4 (Useful)	38.28%	49
3 (Somewhat Useful)	20.31%	26
2 (Not useful)	2.34%	3
1 (Did not use)	18.75%	24
<b>TOTAL</b>		<b>128</b>

## Q19 Chapter 6 Institutional Challenges

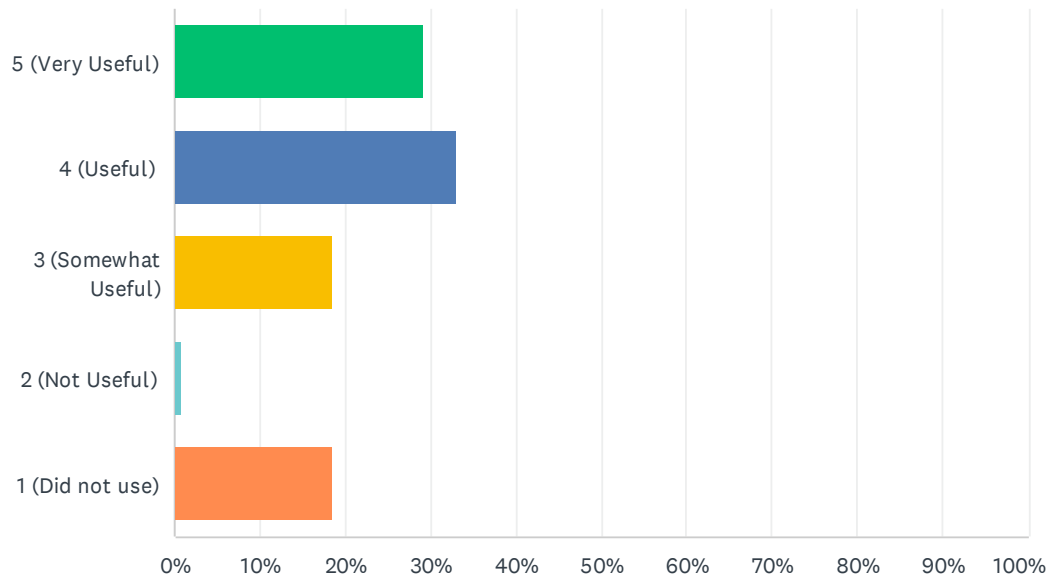
Answered: 130 Skipped: 61



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	9.23%	12
4 (Useful)	19.23%	25
3 (Somewhat Useful)	43.08%	56
2 (Not Useful)	7.69%	10
1 (Did not use)	20.77%	27
<b>TOTAL</b>		<b>130</b>

## Q20 Appendix A The Body of Knowledge

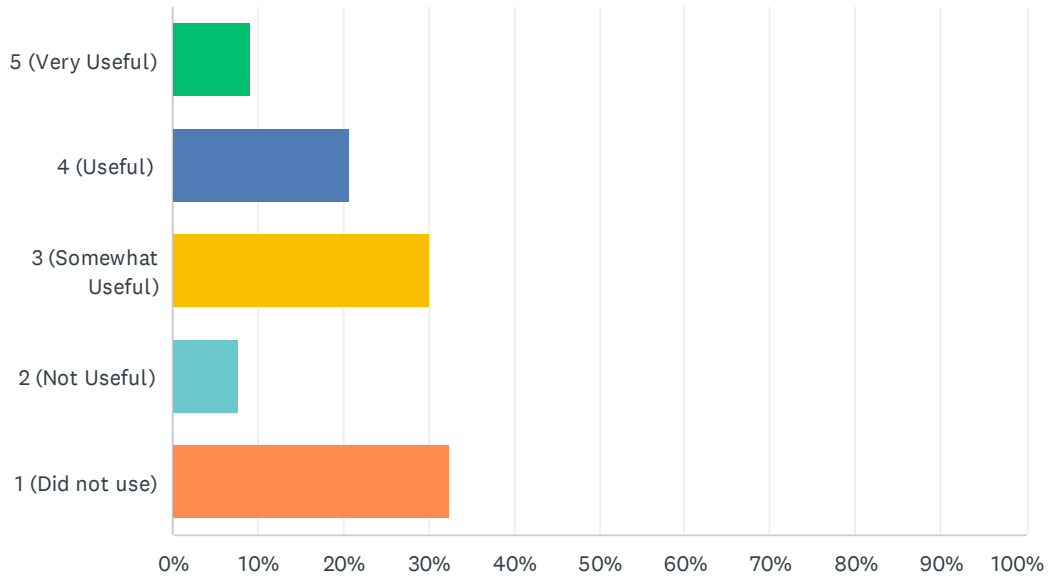
Answered: 130 Skipped: 61



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	29.23%	38
4 (Useful)	33.08%	43
3 (Somewhat Useful)	18.46%	24
2 (Not Useful)	0.77%	1
1 (Did not use)	18.46%	24
<b>TOTAL</b>		<b>130</b>

## Q21 Appendix B Migrating to CS2013

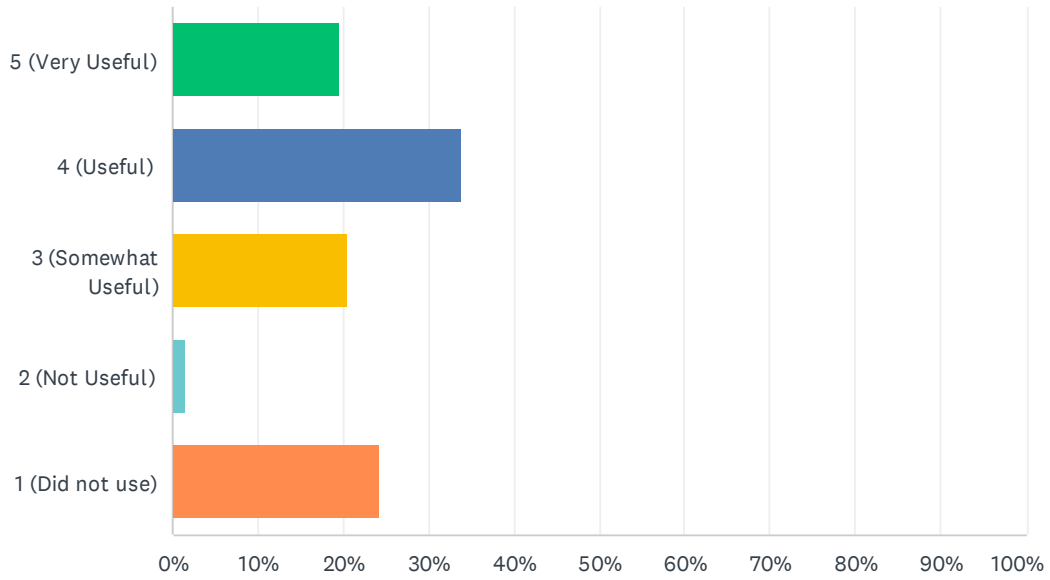
Answered: 130 Skipped: 61



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	9.23%	12
4 (Useful)	20.77%	27
3 (Somewhat Useful)	30.00%	39
2 (Not Useful)	7.69%	10
1 (Did not use)	32.31%	42
<b>TOTAL</b>		<b>130</b>

## Q22 Appendix C Course Exemplars

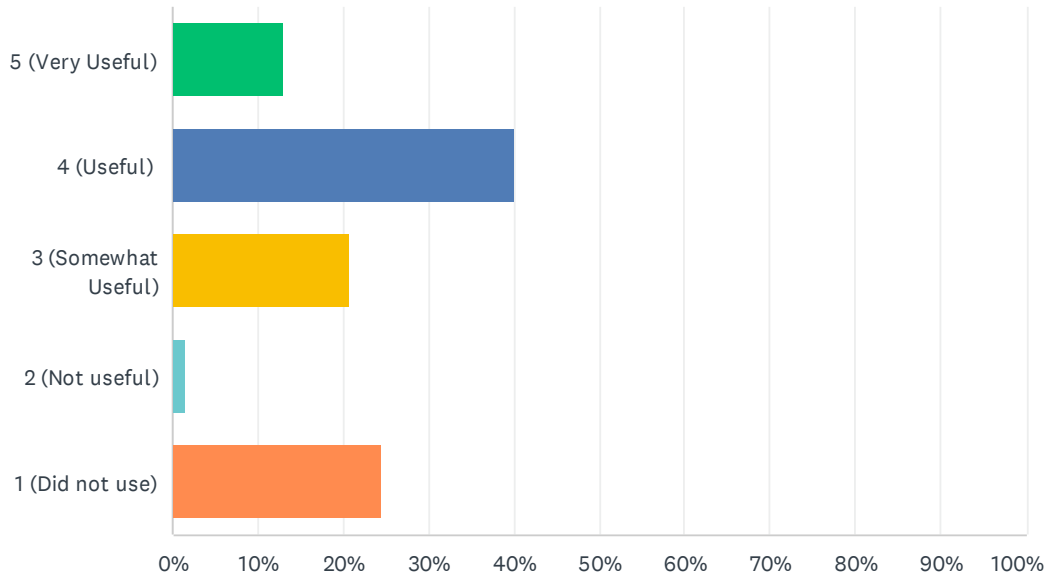
Answered: 127 Skipped: 64



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	19.69%	25
4 (Useful)	33.86%	43
3 (Somewhat Useful)	20.47%	26
2 (Not Useful)	1.57%	2
1 (Did not use)	24.41%	31
<b>TOTAL</b>		<b>127</b>

## Q23 Appendix D Curricular Exemplars

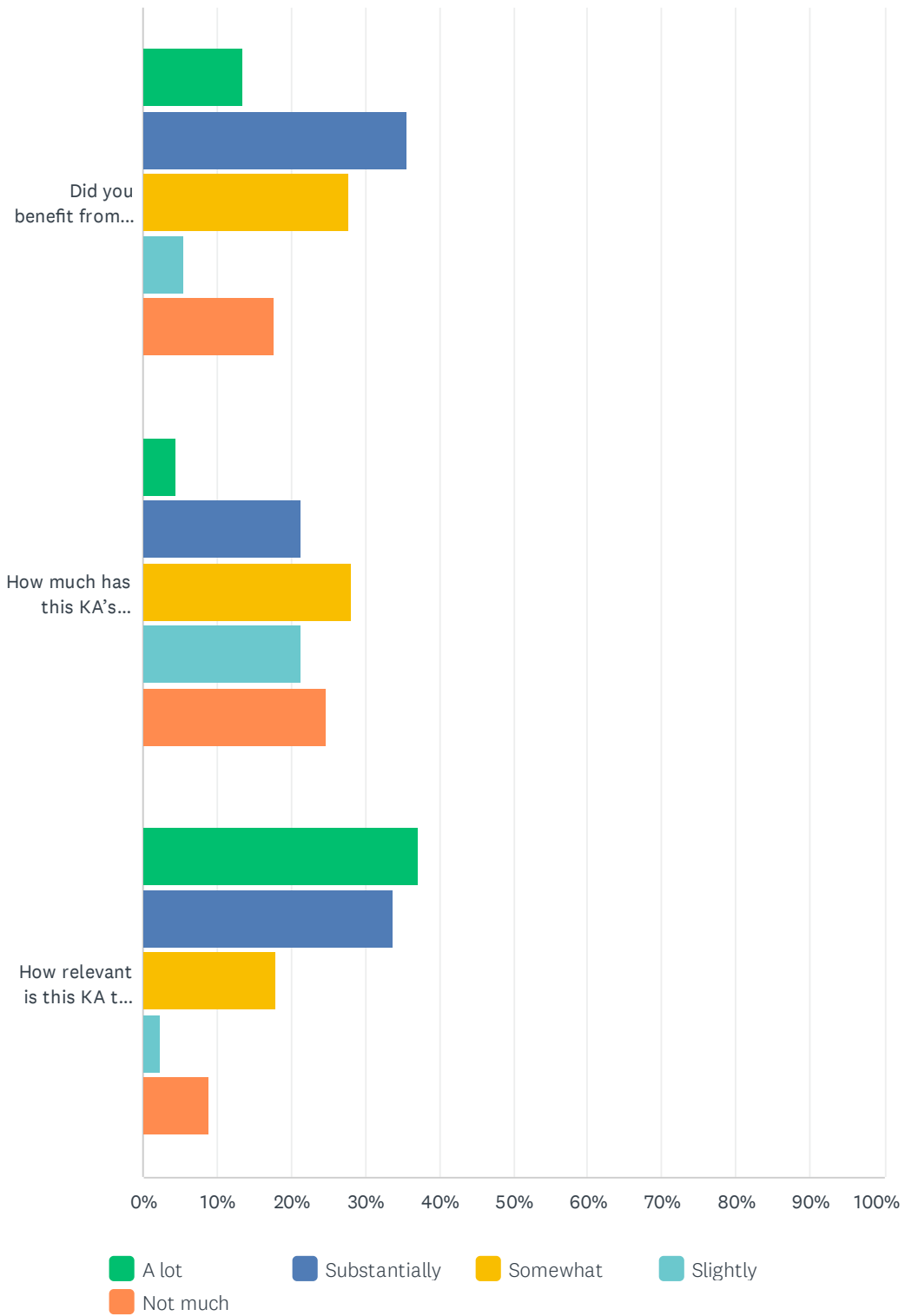
Answered: 130 Skipped: 61



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	13.08%	17
4 (Useful)	40.00%	52
3 (Somewhat Useful)	20.77%	27
2 (Not useful)	1.54%	2
1 (Did not use)	24.62%	32
<b>TOTAL</b>		<b>130</b>

## Q24 Algorithms and Complexity (AL)

Answered: 93 Skipped: 98



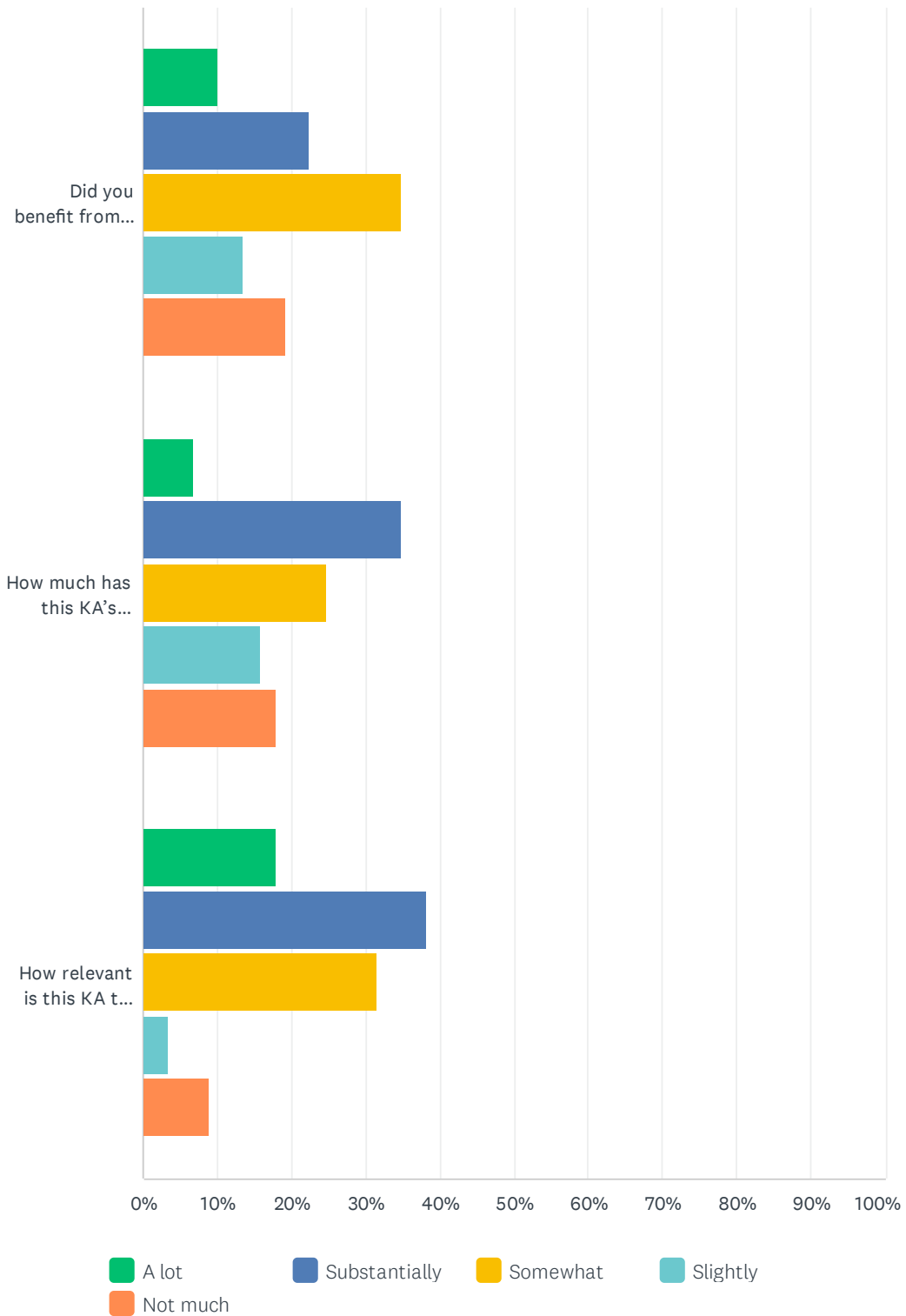


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	13.33% 12	35.56% 32	27.78% 25	5.56% 5	17.78% 16	90
How much has this KA's content changed since 2013?	4.49% 4	21.35% 19	28.09% 25	21.35% 19	24.72% 22	89
How relevant is this KA to CS today?	37.08% 33	33.71% 30	17.98% 16	2.25% 2	8.99% 8	89

## Q25 Architecture and Organization (AR)

Answered: 91 Skipped: 100

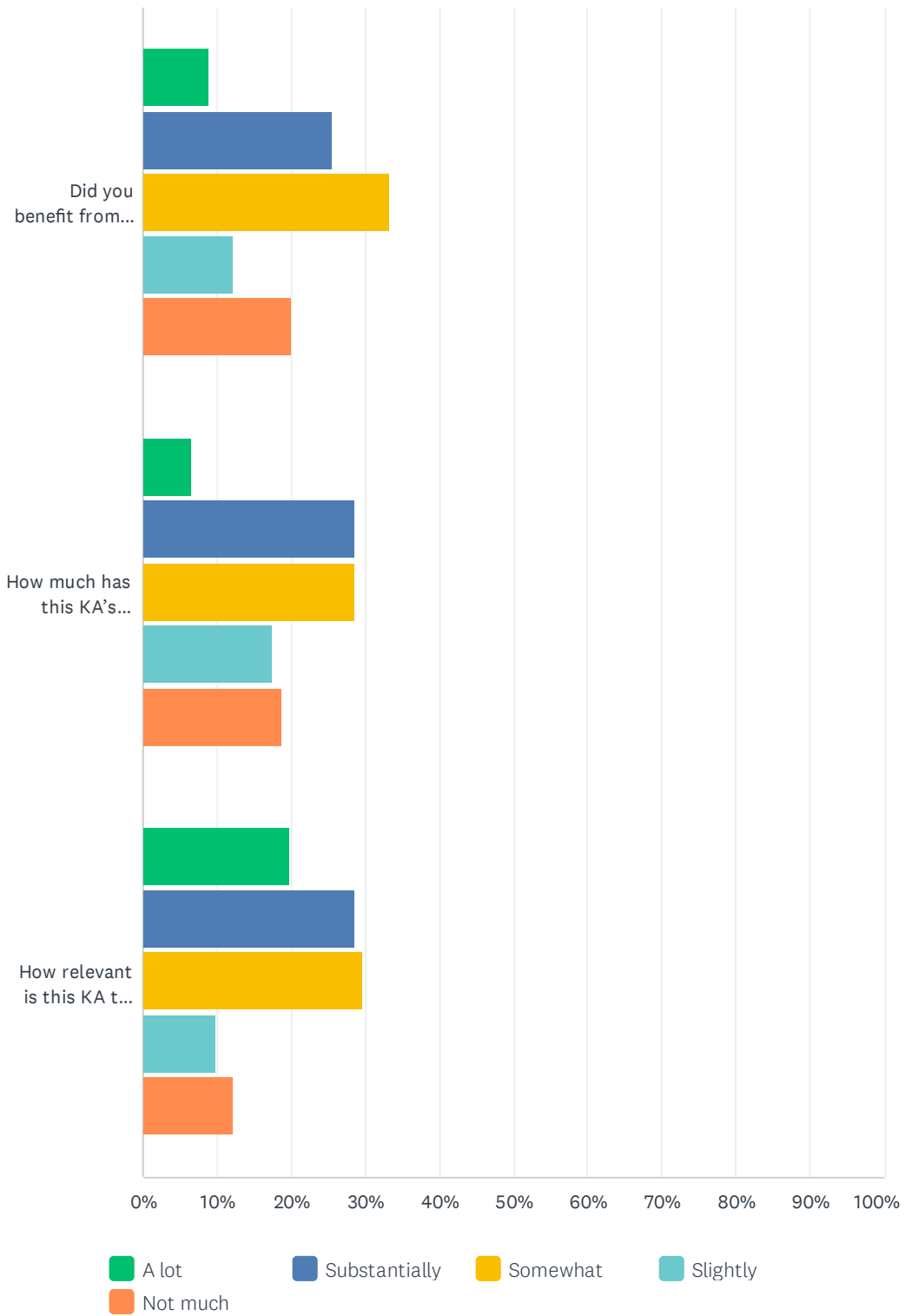


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	10.11% 9	22.47% 20	34.83% 31	13.48% 12	19.10% 17	89
How much has this KA's content changed since 2013?	6.74% 6	34.83% 31	24.72% 22	15.73% 14	17.98% 16	89
How relevant is this KA to CS today?	17.98% 16	38.20% 34	31.46% 28	3.37% 3	8.99% 8	89

## Q26 Computational Science (CN)

Answered: 93 Skipped: 98

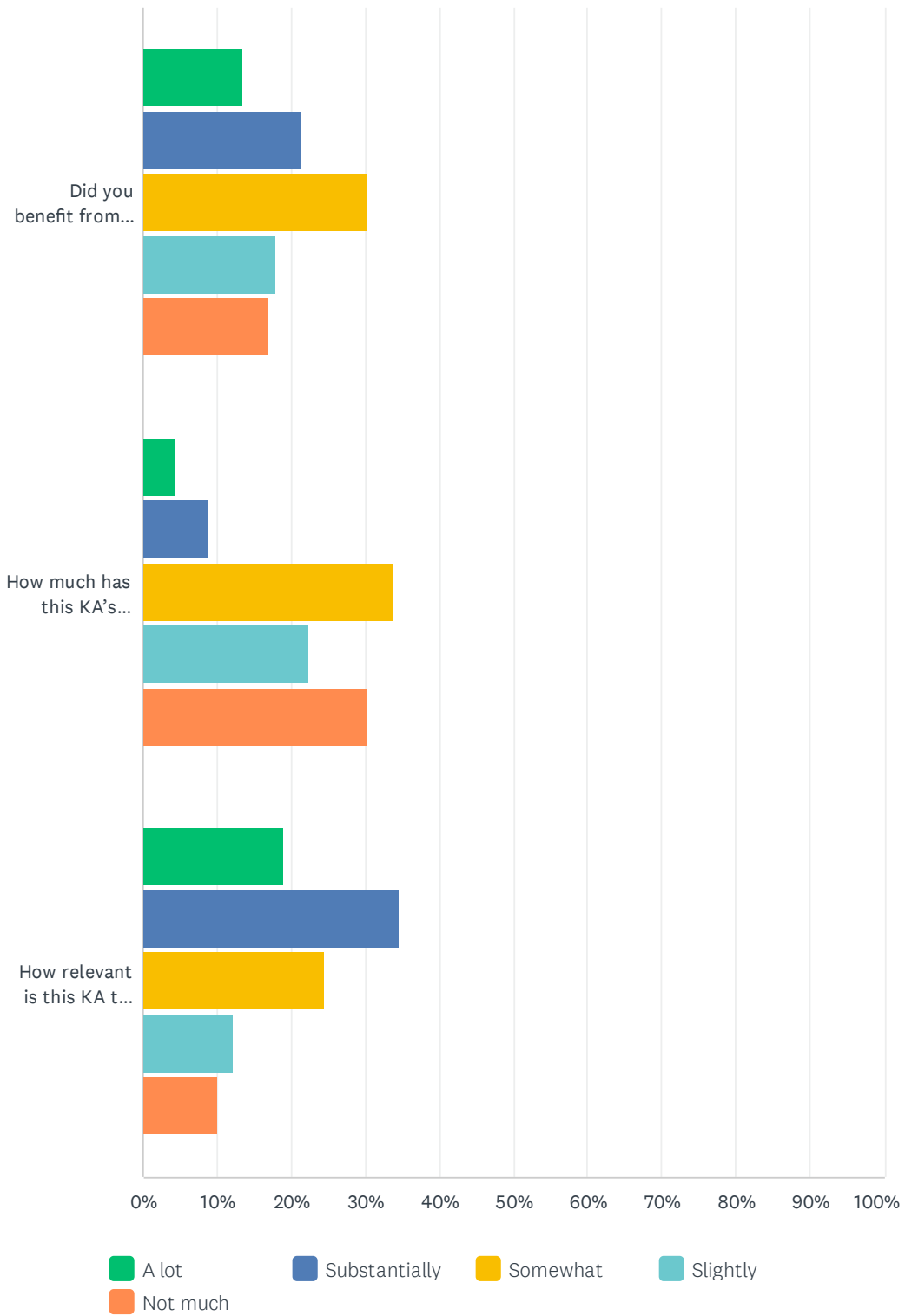


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	8.89% 8	25.56% 23	33.33% 30	12.22% 11	20.00% 18	90
How much has this KA's content changed since 2013?	6.59% 6	28.57% 26	28.57% 26	17.58% 16	18.68% 17	91
How relevant is this KA to CS today?	19.78% 18	28.57% 26	29.67% 27	9.89% 9	12.09% 11	91

## Q27 Discrete Structures (DS)

Answered: 92 Skipped: 99

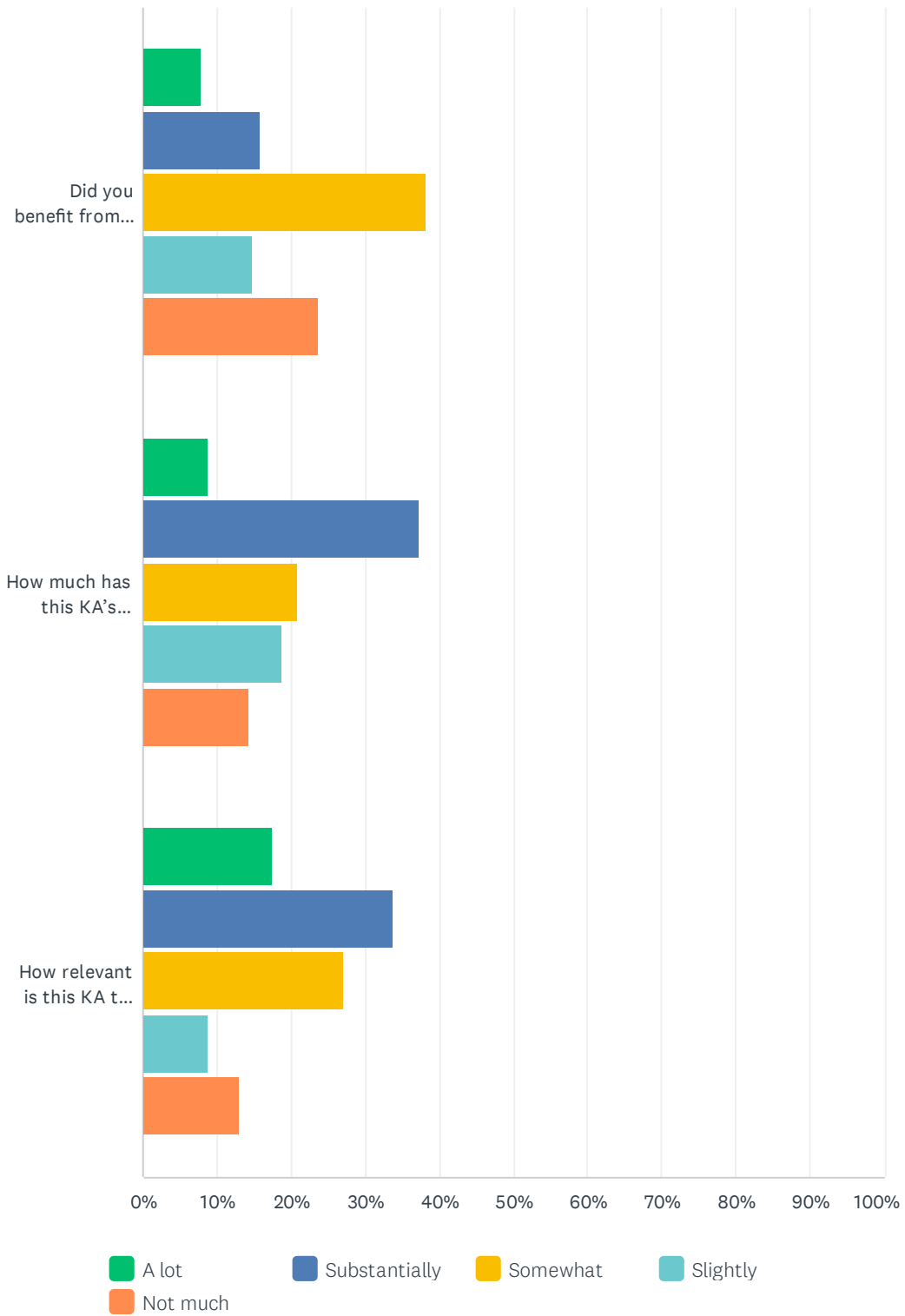


CS202X Survey: Global

	A LOT	SUBSTANTIALY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	13.48% 12	21.35% 19	30.34% 27	17.98% 16	16.85% 15	89
How much has this KA's content changed since 2013?	4.49% 4	8.99% 8	33.71% 30	22.47% 20	30.34% 27	89
How relevant is this KA to CS today?	18.89% 17	34.44% 31	24.44% 22	12.22% 11	10.00% 9	90

## Q28 Graphics and Visualization (GV)

Answered: 92 Skipped: 99



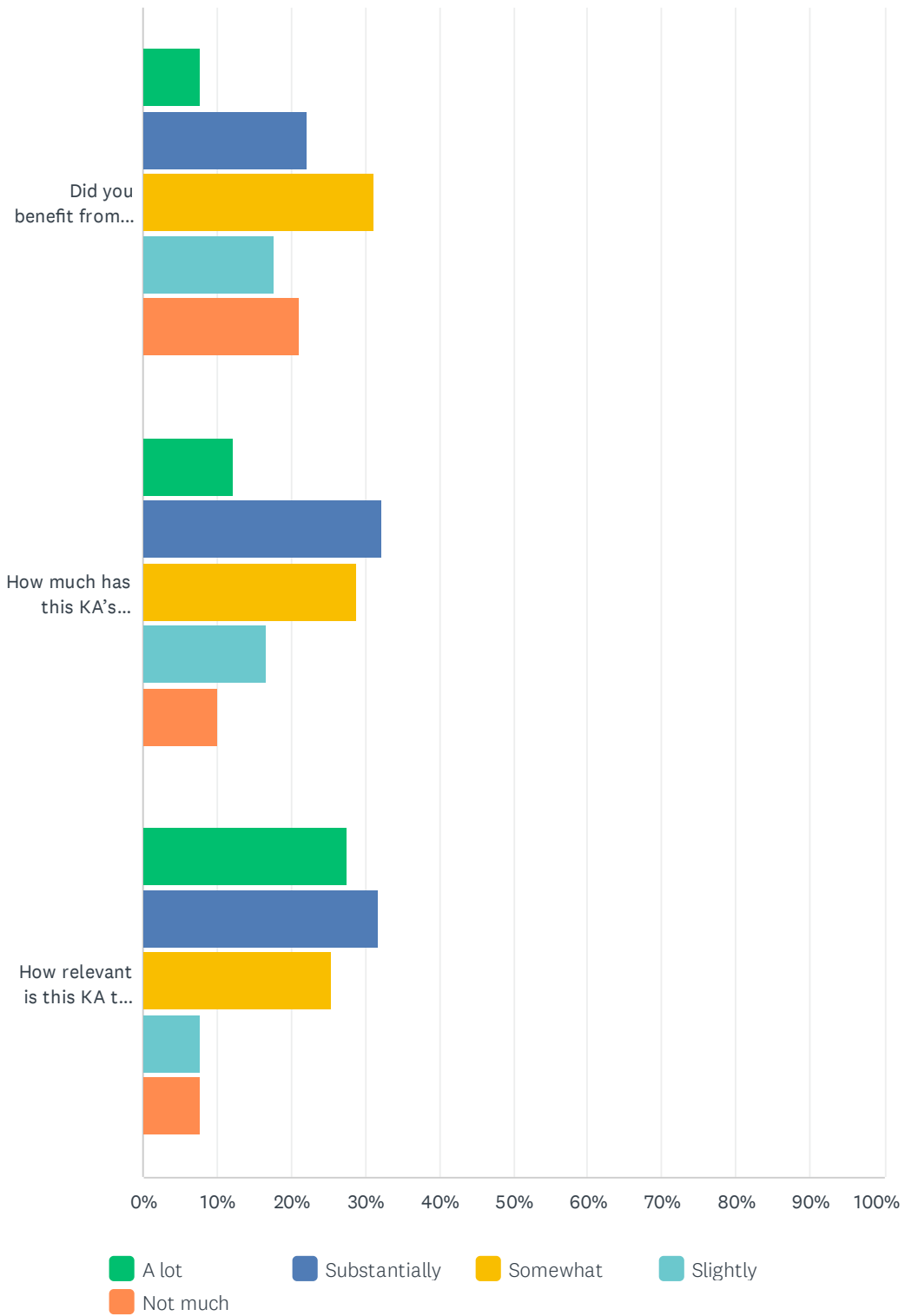


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	7.87% 7	15.73% 14	38.20% 34	14.61% 13	23.60% 21	89
How much has this KA's content changed since 2013?	8.79% 8	37.36% 34	20.88% 19	18.68% 17	14.29% 13	91
How relevant is this KA to CS today?	17.39% 16	33.70% 31	27.17% 25	8.70% 8	13.04% 12	92

## Q29 Human-Computer interaction (HCI)

Answered: 92 Skipped: 99

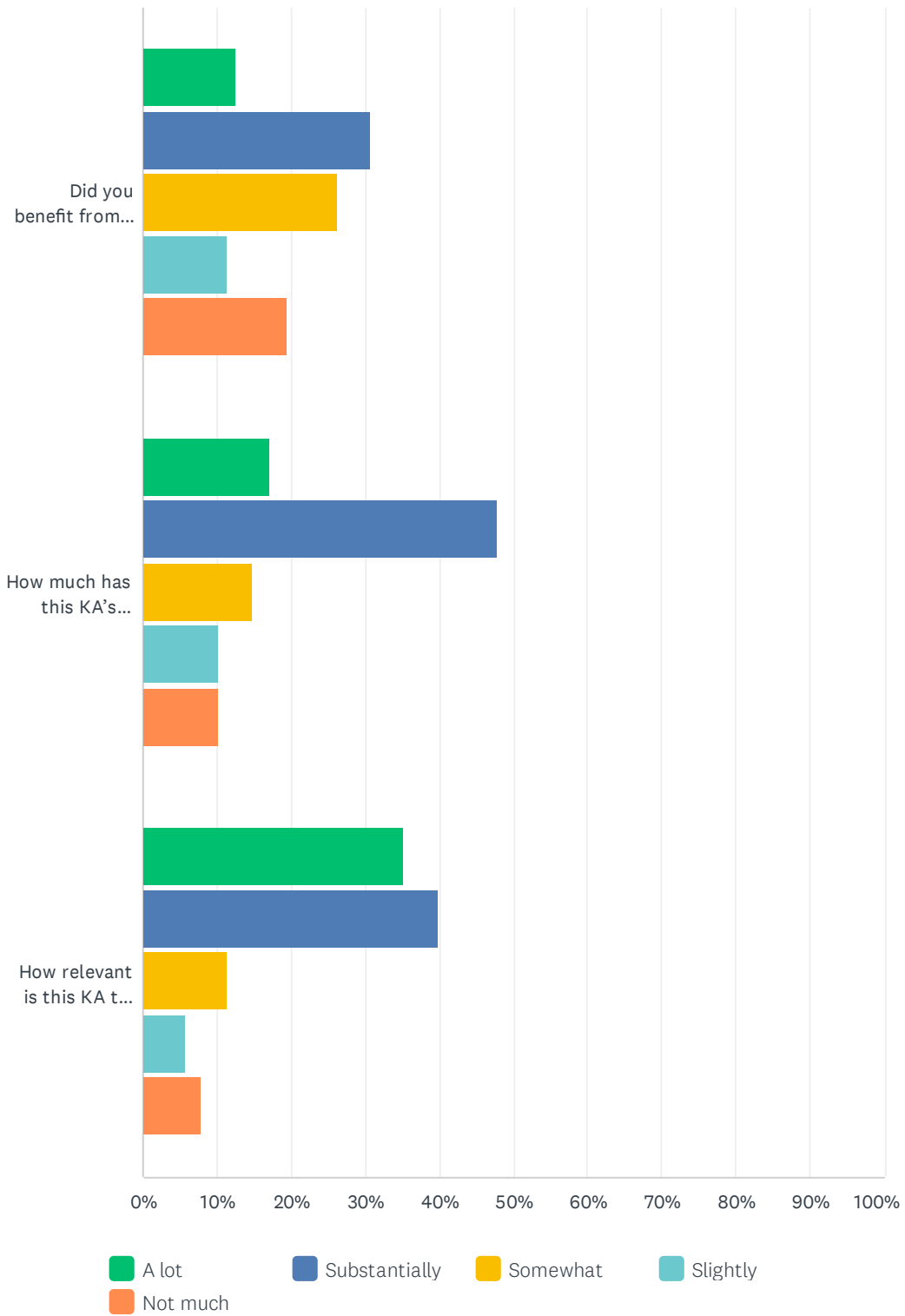


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	7.78% 7	22.22% 20	31.11% 28	17.78% 16	21.11% 19	90
How much has this KA's content changed since 2013?	12.22% 11	32.22% 29	28.89% 26	16.67% 15	10.00% 9	90
How relevant is this KA to CS today?	27.47% 25	31.87% 29	25.27% 23	7.69% 7	7.69% 7	91

## Q30 Information Assurance and Security (IAS)

Answered: 90 Skipped: 101

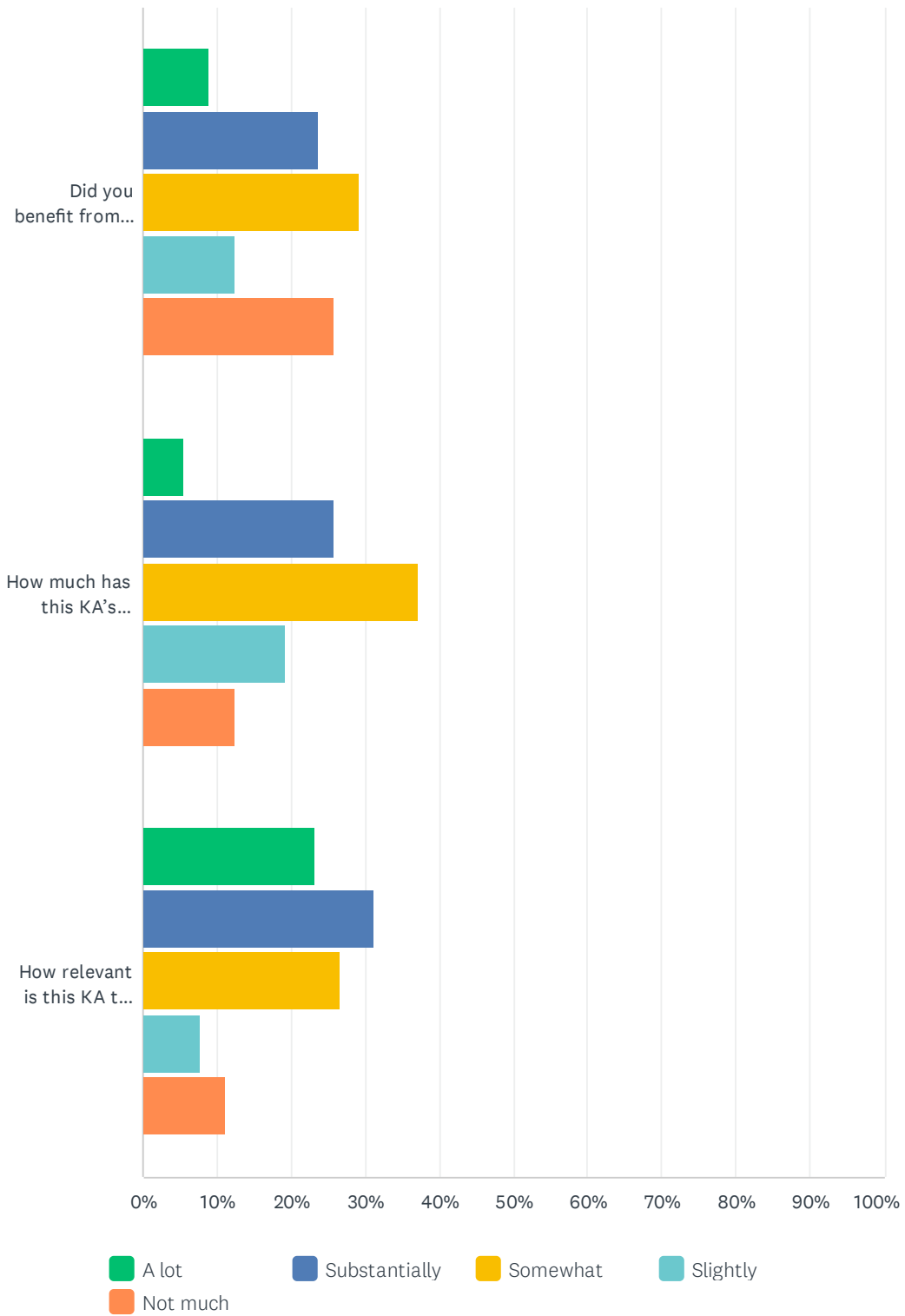


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	12.50% 11	30.68% 27	26.14% 23	11.36% 10	19.32% 17	88
How much has this KA's content changed since 2013?	17.05% 15	47.73% 42	14.77% 13	10.23% 9	10.23% 9	88
How relevant is this KA to CS today?	35.23% 31	39.77% 35	11.36% 10	5.68% 5	7.95% 7	88

## Q31 Information Management (IM)

Answered: 91 Skipped: 100

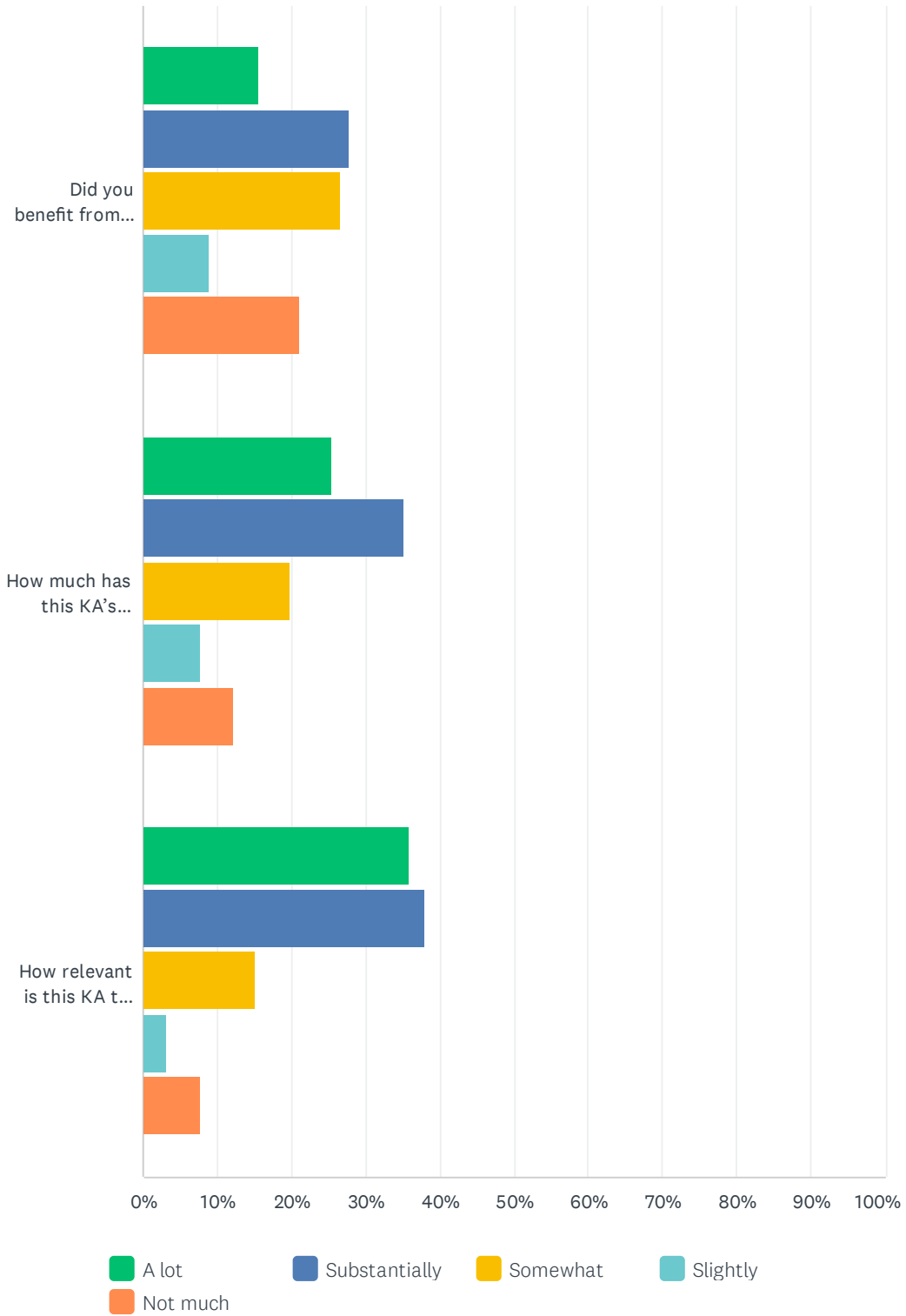


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	8.99% 8	23.60% 21	29.21% 26	12.36% 11	25.84% 23	89
How much has this KA's content changed since 2013?	5.62% 5	25.84% 23	37.08% 33	19.10% 17	12.36% 11	89
How relevant is this KA to CS today?	23.33% 21	31.11% 28	26.67% 24	7.78% 7	11.11% 10	90

## Q32 Intelligent systems (IS)

Answered: 92 Skipped: 99



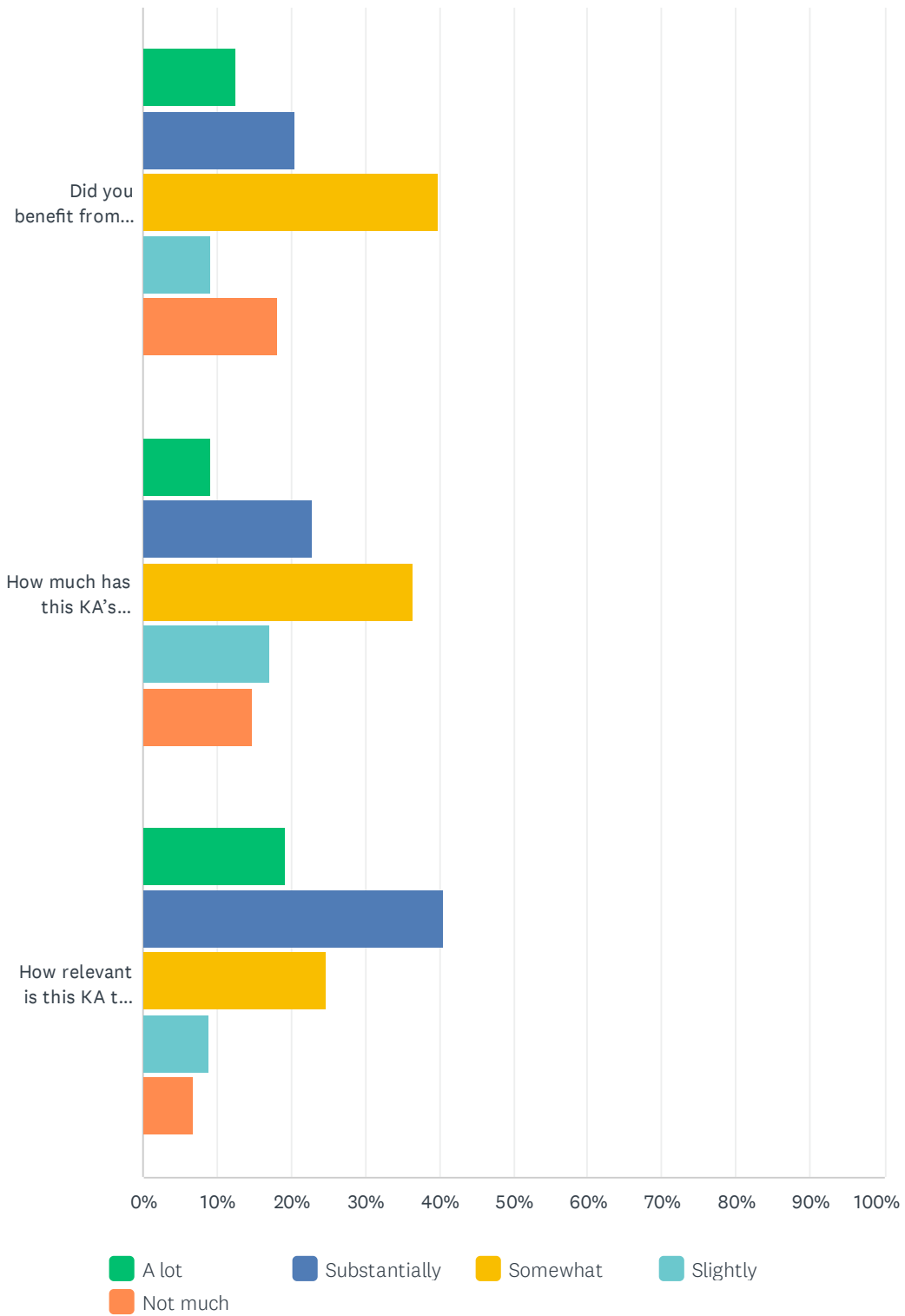


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	15.56% 14	27.78% 25	26.67% 24	8.89% 8	21.11% 19	90
How much has this KA's content changed since 2013?	25.27% 23	35.16% 32	19.78% 18	7.69% 7	12.09% 11	91
How relevant is this KA to CS today?	35.87% 33	38.04% 35	15.22% 14	3.26% 3	7.61% 7	92

### Q33 Networking and Communication (NC)

Answered: 90 Skipped: 101

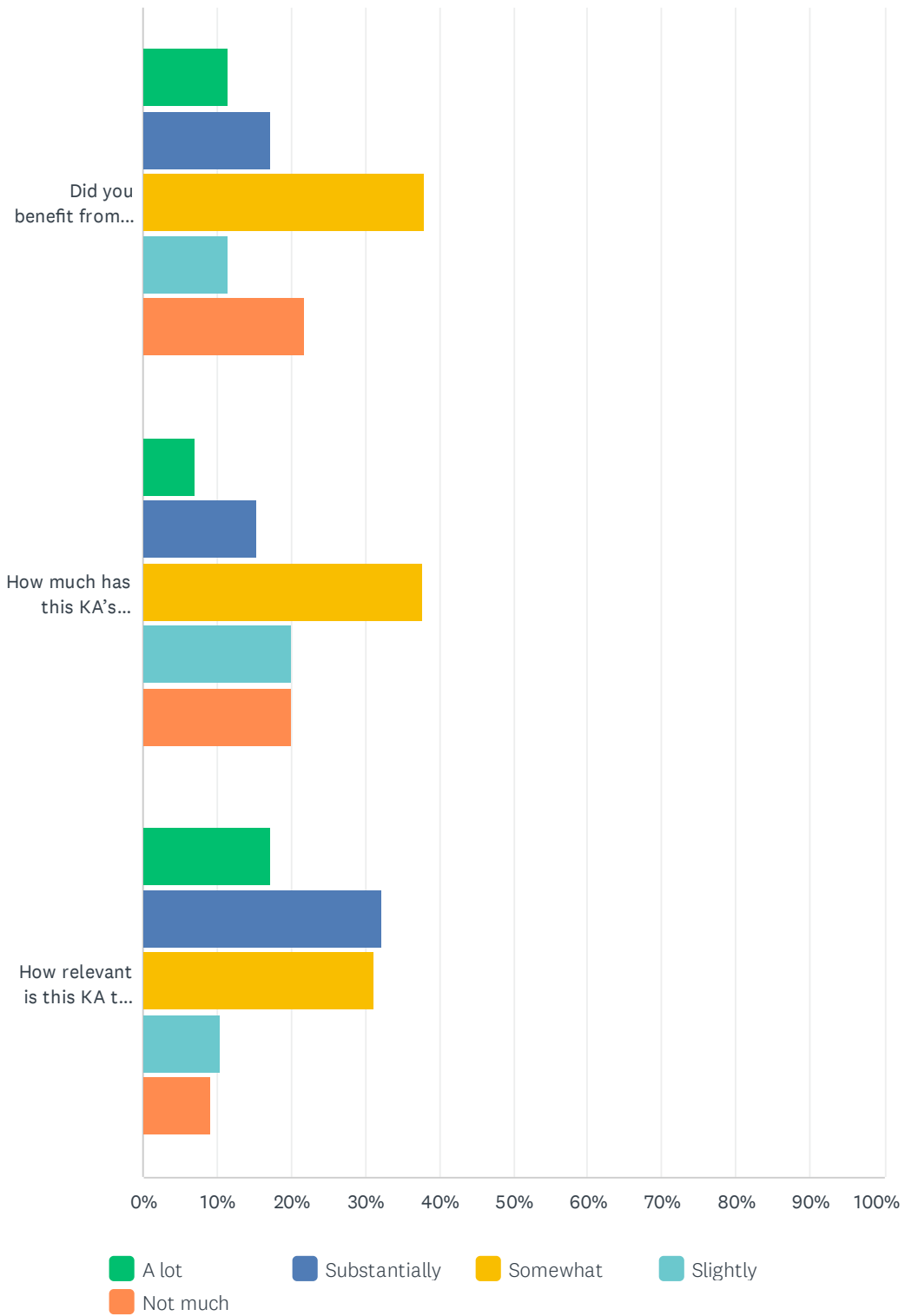


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL	WEIGHTED AVERAGE
Did you benefit from this KA's guidelines?	12.50% 11	20.45% 18	39.77% 35	9.09% 8	18.18% 16	88	3.00
How much has this KA's content changed since 2013?	9.09% 8	22.73% 20	36.36% 32	17.05% 15	14.77% 13	88	3.06
How relevant is this KA to CS today?	19.10% 17	40.45% 36	24.72% 22	8.99% 8	6.74% 6	89	2.44

## Q34 Operating Systems (OS)

Answered: 89 Skipped: 102

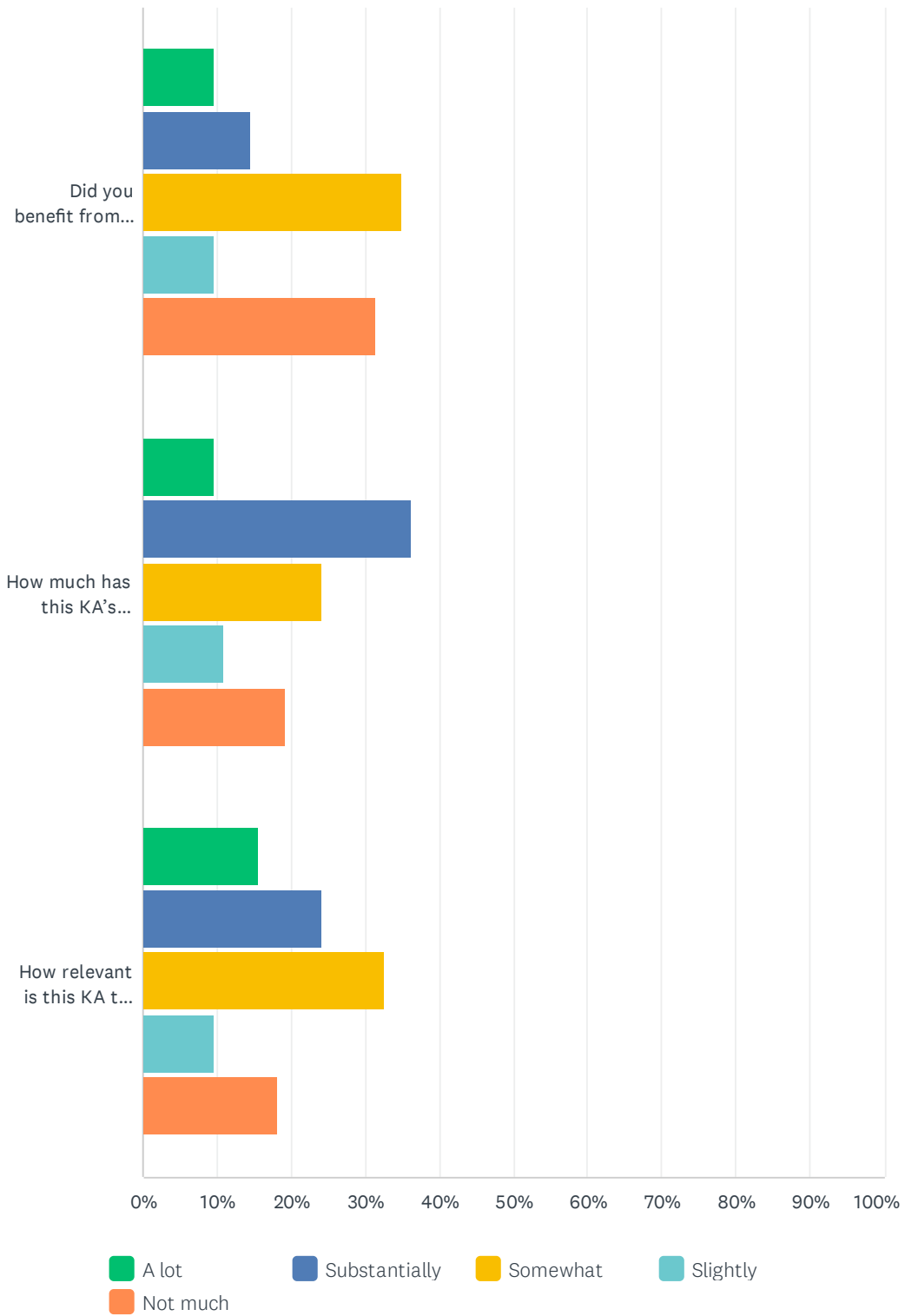


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	11.49% 10	17.24% 15	37.93% 33	11.49% 10	21.84% 19	87
How much has this KA's content changed since 2013?	7.06% 6	15.29% 13	37.65% 32	20.00% 17	20.00% 17	85
How relevant is this KA to CS today?	17.24% 15	32.18% 28	31.03% 27	10.34% 9	9.20% 8	87

## Q35 Platform-Based Development (PBD)

Answered: 84 Skipped: 107

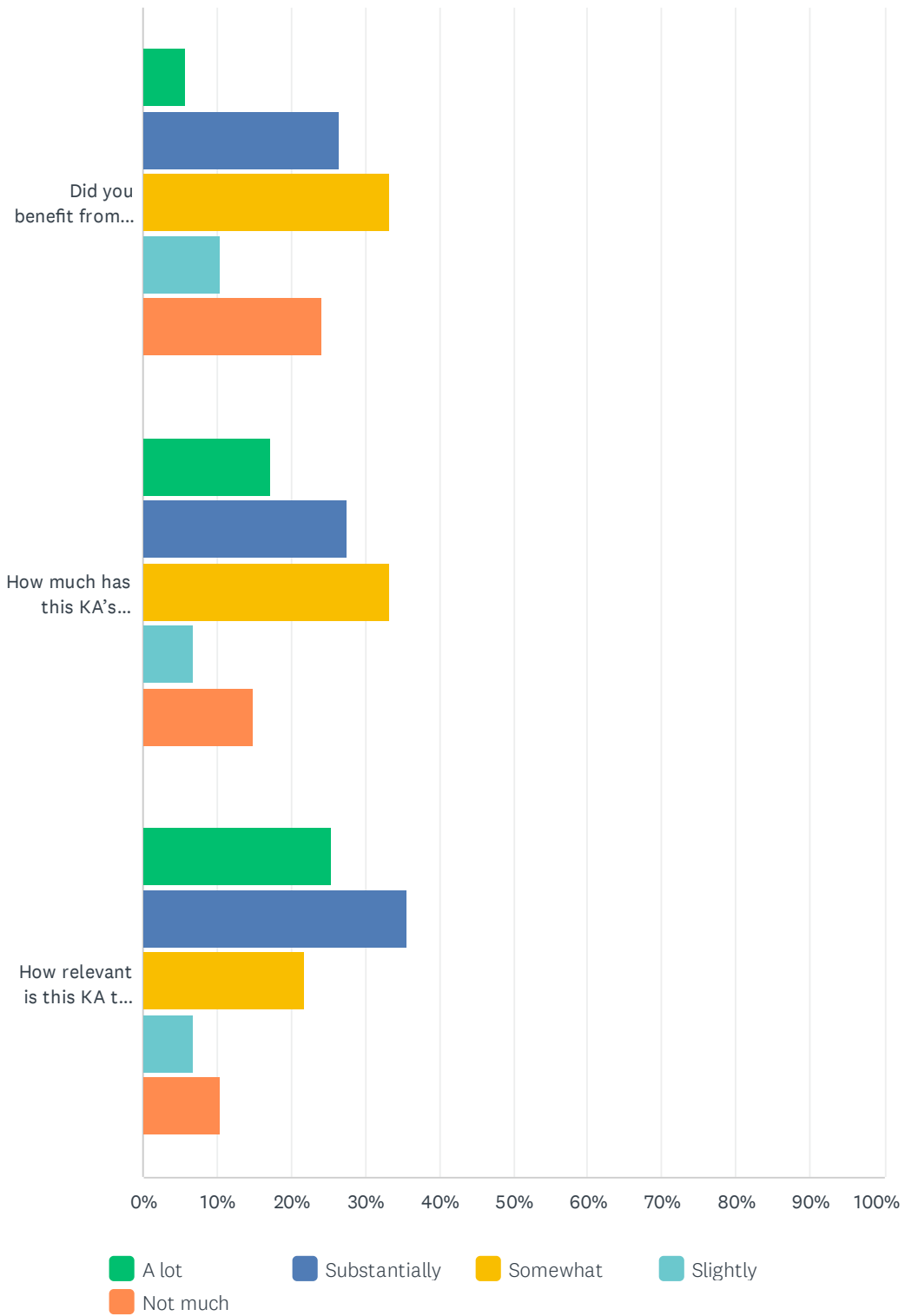


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	9.64% 8	14.46% 12	34.94% 29	9.64% 8	31.33% 26	83
How much has this KA's content changed since 2013?	9.64% 8	36.14% 30	24.10% 20	10.84% 9	19.28% 16	83
How relevant is this KA to CS today?	15.66% 13	24.10% 20	32.53% 27	9.64% 8	18.07% 15	83

## Q36 Parallel and Distributed Computing (PD)

Answered: 88 Skipped: 103



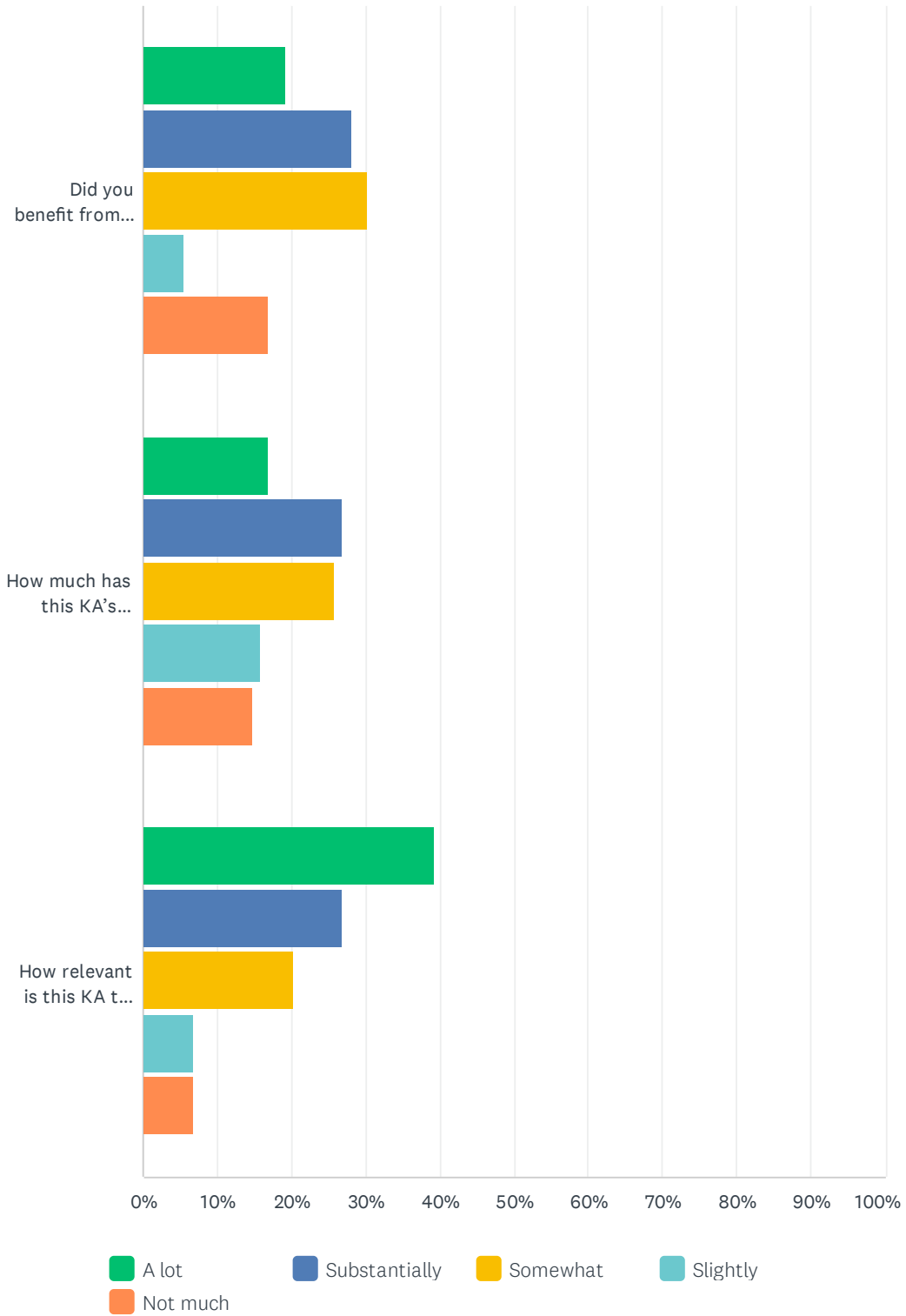


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	5.75% 5	26.44% 23	33.33% 29	10.34% 9	24.14% 21	87
How much has this KA's content changed since 2013?	17.24% 15	27.59% 24	33.33% 29	6.90% 6	14.94% 13	87
How relevant is this KA to CS today?	25.29% 22	35.63% 31	21.84% 19	6.90% 6	10.34% 9	87

### Q37 Programming Languages (PL)

Answered: 90 Skipped: 101

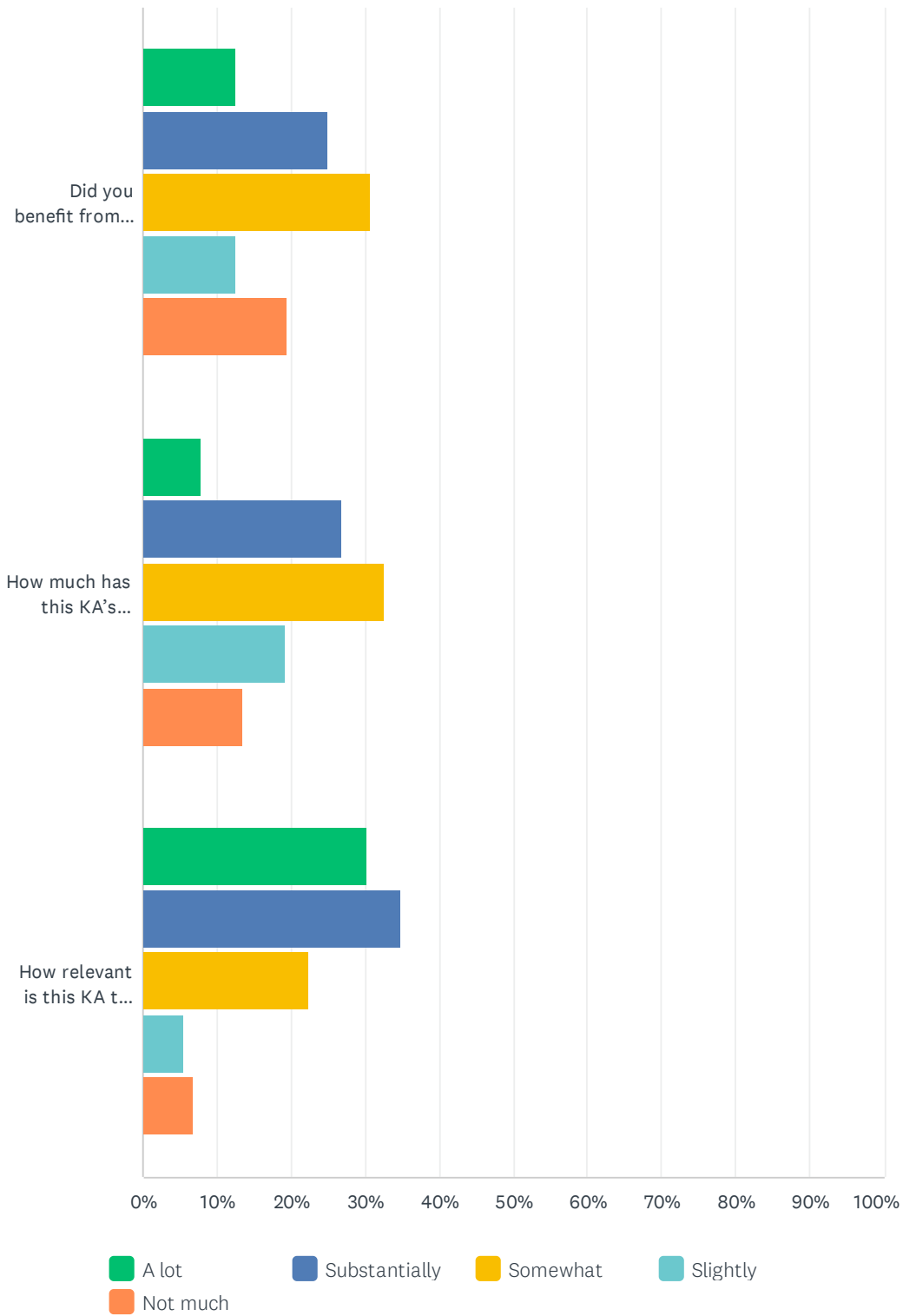


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	19.10% 17	28.09% 25	30.34% 27	5.62% 5	16.85% 15	89
How much has this KA's content changed since 2013?	16.85% 15	26.97% 24	25.84% 23	15.73% 14	14.61% 13	89
How relevant is this KA to CS today?	39.33% 35	26.97% 24	20.22% 18	6.74% 6	6.74% 6	89

## Q38 Software Development Fundamentals (SDF)

Answered: 90 Skipped: 101

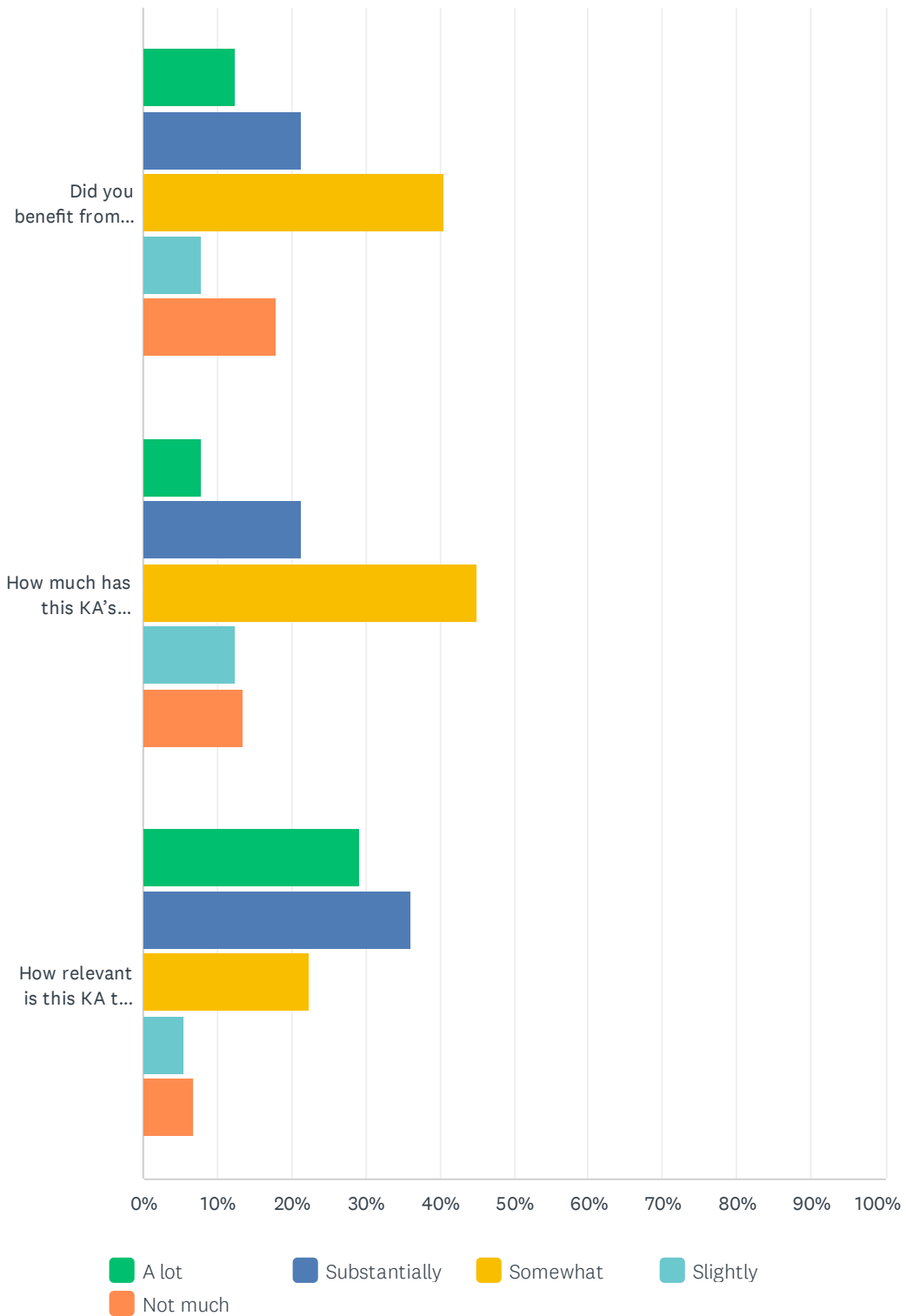


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	12.50% 11	25.00% 22	30.68% 27	12.50% 11	19.32% 17	88
How much has this KA's content changed since 2013?	7.87% 7	26.97% 24	32.58% 29	19.10% 17	13.48% 12	89
How relevant is this KA to CS today?	30.34% 27	34.83% 31	22.47% 20	5.62% 5	6.74% 6	89

### Q39 Software Engineering (SE)

Answered: 90 Skipped: 101

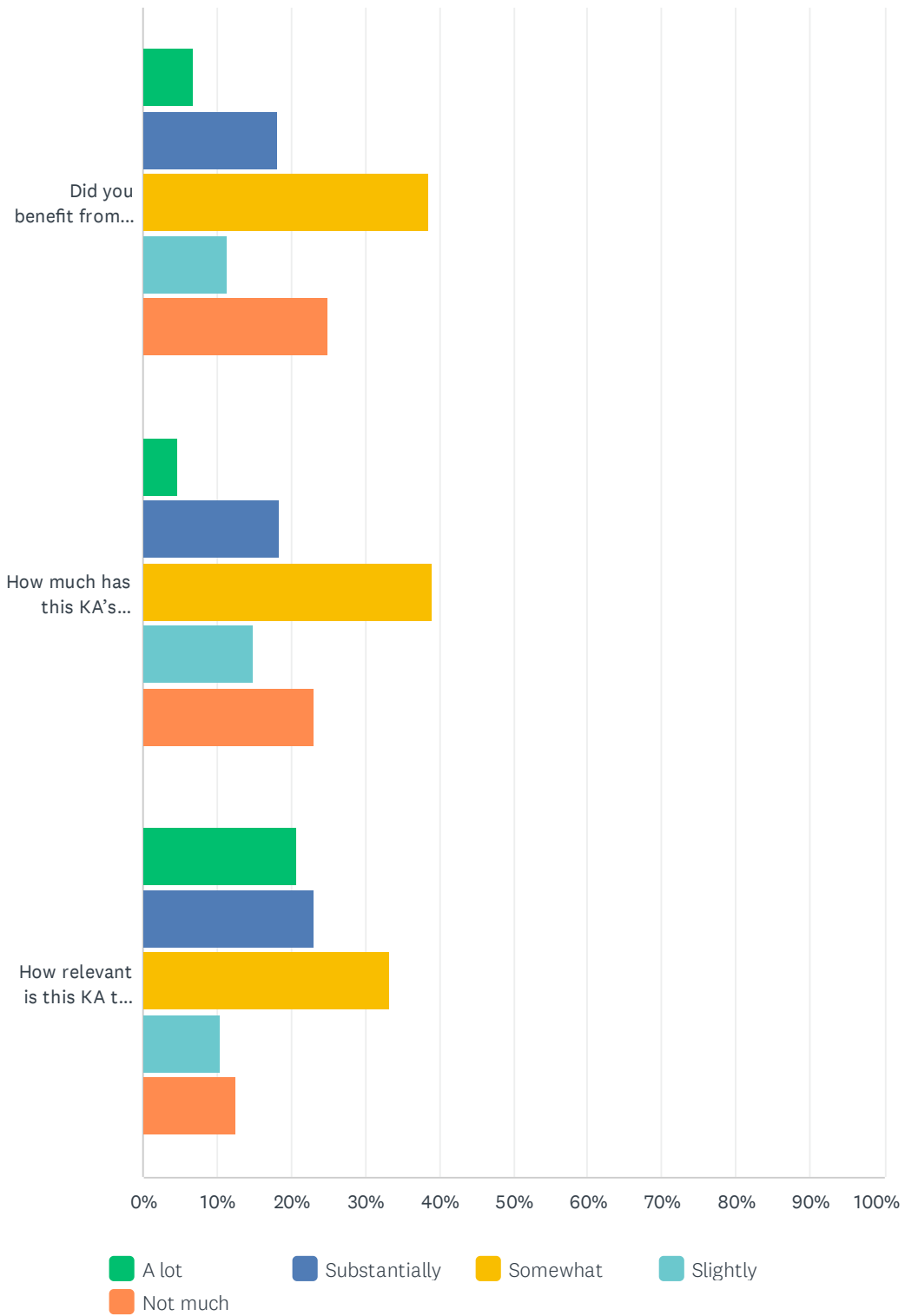


CS202X Survey: Global

	A LOT	SUBSTANTIALY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	12.36% 11	21.35% 19	40.45% 36	7.87% 7	17.98% 16	89
How much has this KA's content changed since 2013?	7.87% 7	21.35% 19	44.94% 40	12.36% 11	13.48% 12	89
How relevant is this KA to CS today?	29.21% 26	35.96% 32	22.47% 20	5.62% 5	6.74% 6	89

## Q40 Systems Fundamentals (SF)

Answered: 89 Skipped: 102



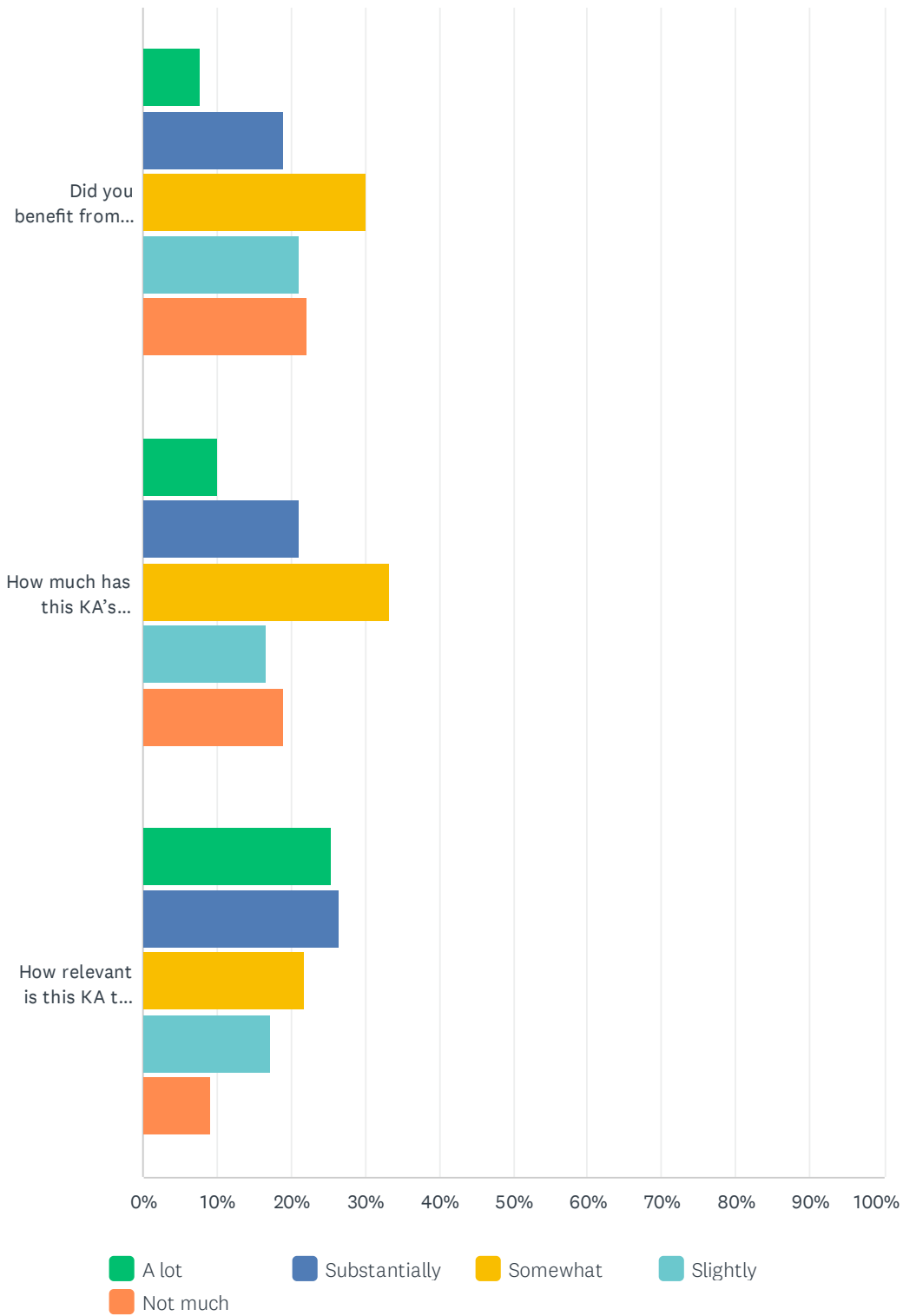


CS202X Survey: Global

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	6.82% 6	18.18% 16	38.64% 34	11.36% 10	25.00% 22	88
How much has this KA's content changed since 2013?	4.60% 4	18.39% 16	39.08% 34	14.94% 13	22.99% 20	87
How relevant is this KA to CS today?	20.69% 18	22.99% 20	33.33% 29	10.34% 9	12.64% 11	87

## Q41 Social and Professional Practice (SP)

Answered: 91 Skipped: 100



CS202X Survey: Global

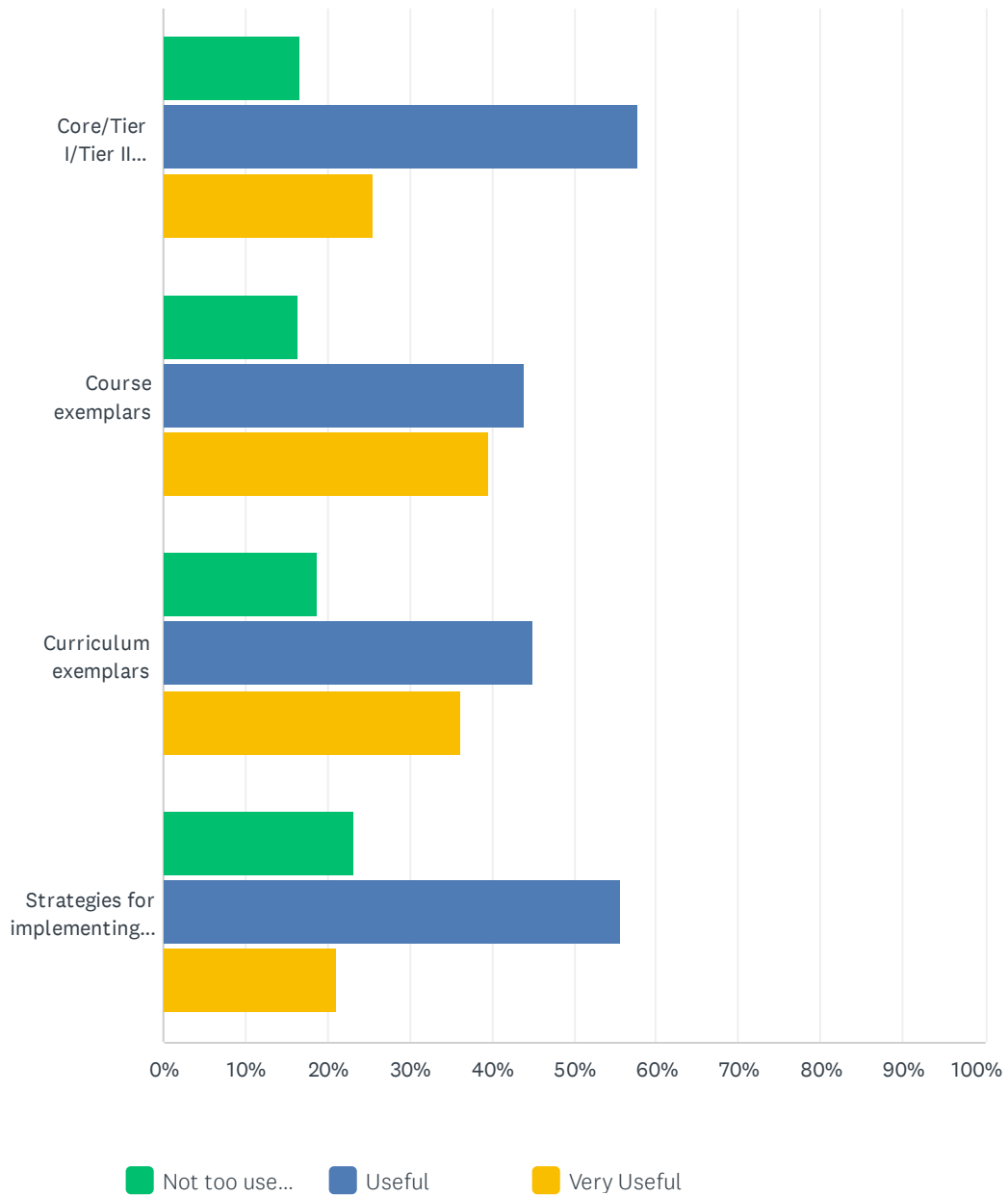
	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	7.78% 7	18.89% 17	30.00% 27	21.11% 19	22.22% 20	90
How much has this KA's content changed since 2013?	10.00% 9	21.11% 19	33.33% 30	16.67% 15	18.89% 17	90
How relevant is this KA to CS today?	25.29% 22	26.44% 23	21.84% 19	17.24% 15	9.20% 8	87

**Q42 Please provide any follow-up comments and suggestions to your responses on the previous questions (e.g., why a KA is not relevant or how a KA has changed).**

Answered: 16 Skipped: 175

### Q43 How useful were the following aspects of CS2013?

Answered: 91 Skipped: 100

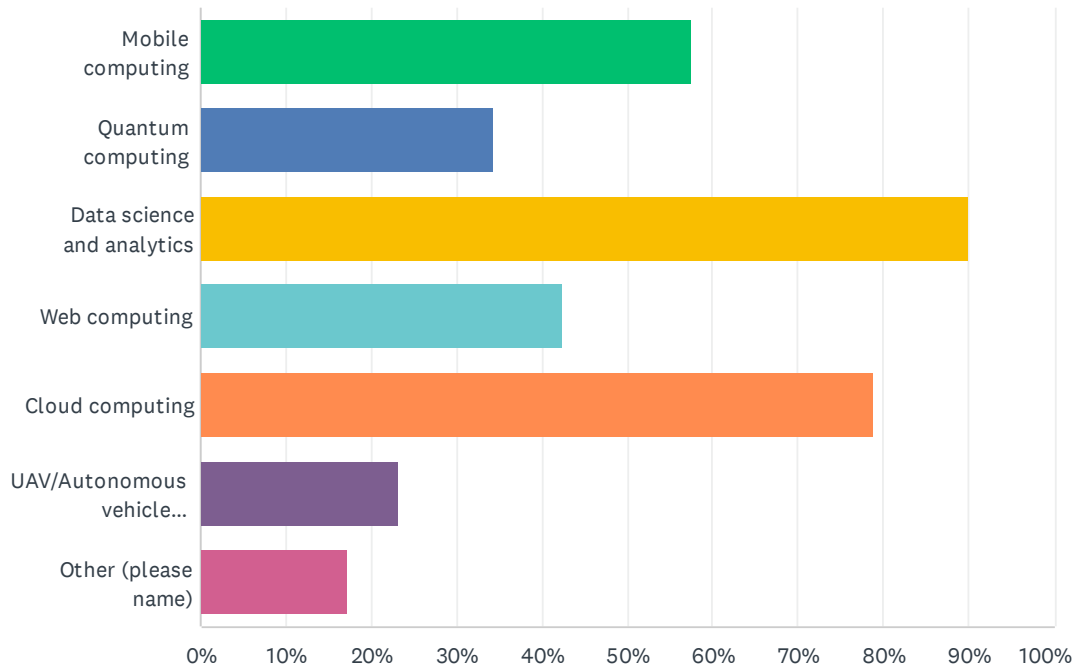


CS202X Survey: Global

	NOT TOO USEFUL	USEFUL	VERY USEFUL	TOTAL	WEIGHTED AVERAGE
Core/Tier I/Tier II categorization of Knowledge Units	16.67% 15	57.78% 52	25.56% 23	90	2.09
Course exemplars	16.48% 15	43.96% 40	39.56% 36	91	2.23
Curriculum exemplars	18.68% 17	45.05% 41	36.26% 33	91	2.18
Strategies for implementing the curriculum	23.33% 21	55.56% 50	21.11% 19	90	1.98

Q44 Since 2013, some new topics or knowledge areas have become more prevalent. Check all of these that you consider are essential for today's CS graduates?

Answered: 99 Skipped: 92



ANSWER CHOICES	RESPONSES	
Mobile computing	57.58%	57
Quantum computing	34.34%	34
Data science and analytics	89.90%	89
Web computing	42.42%	42
Cloud computing	78.79%	78
UAV/Autonomous vehicle programming	23.23%	23
Other (please name)	17.17%	17
Total Respondents: 99		

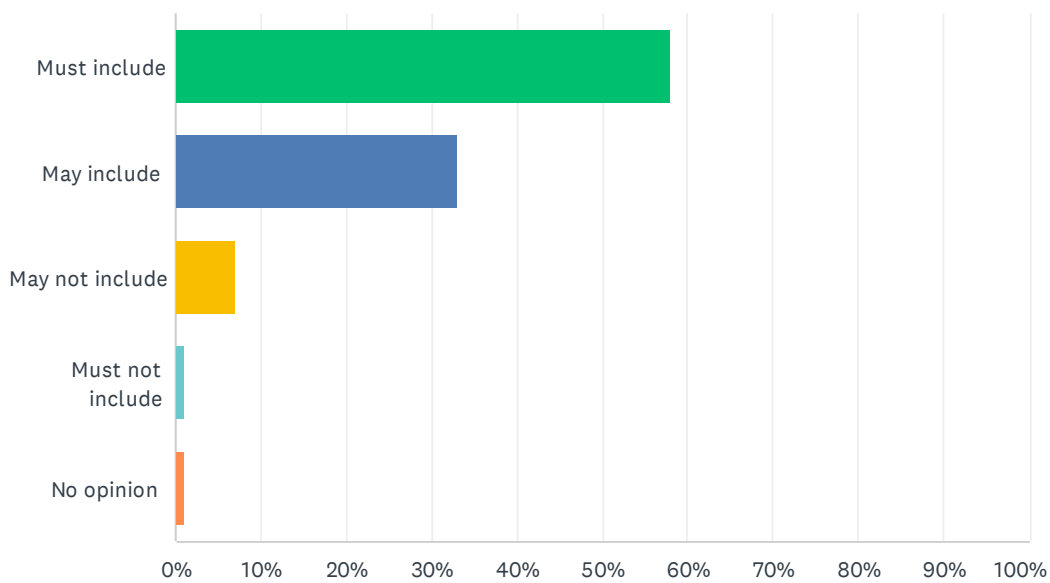
Q45 What other new topics or knowledge areas do you consider are essential for today's CS graduates? Please include feedback from your alumni, advisory boards and other constituencies too.

Answered: 45 Skipped: 146



Q46 There has recently been a move from knowledge-based to competency-based learning in computing, and recent curricular guidelines in other computing disciplines have emphasized competencies. Competency is defined as the synergy of knowledge, skills, and professional dispositions, where professional dispositions, such as persistence, collaborativeness, adaptability and self-directed learning, are demonstrated within the context of computing tasks. How important is competency-based learning in the curriculum?

Answered: 100 Skipped: 91



ANSWER CHOICES	RESPONSES
Must include	58.00% 58
May include	33.00% 33
May not include	7.00% 7
Must not include	1.00% 1
No opinion	1.00% 1
<b>TOTAL</b>	<b>100</b>

**Q47 Please provide any other comments and suggestions for the CS202X task force.**

Answered: 23 Skipped: 168