

Q1 Name of the institution

Answered: 212 Skipped: 0

Q2 Name of the respondent

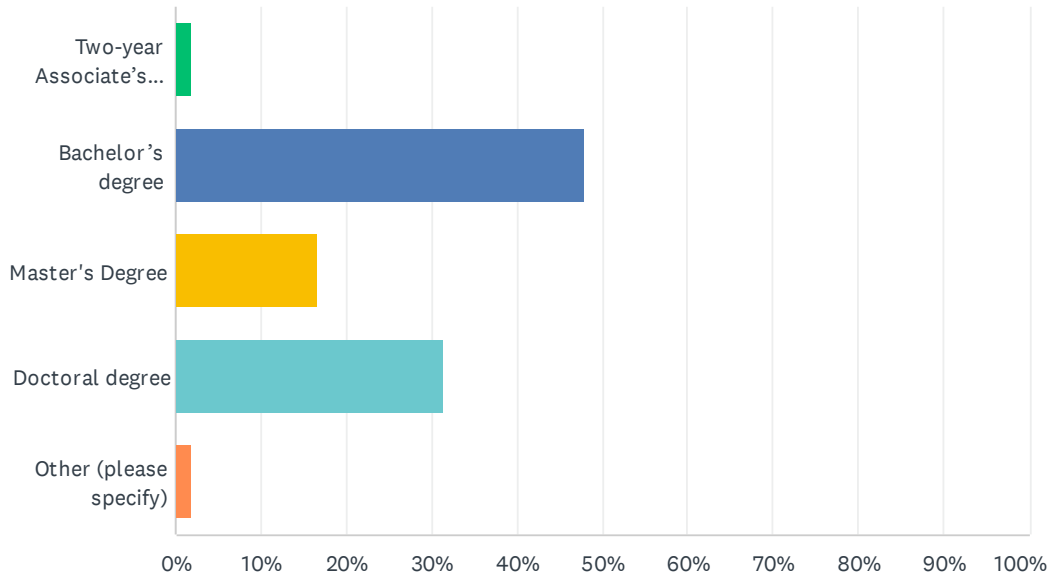
Answered: 212 Skipped: 0

Q3 Please enter your email address - it will be used only for the raffle.

Answered: 202 Skipped: 10

Q4 Please indicate the highest degree offered in Computer Science by your institution.

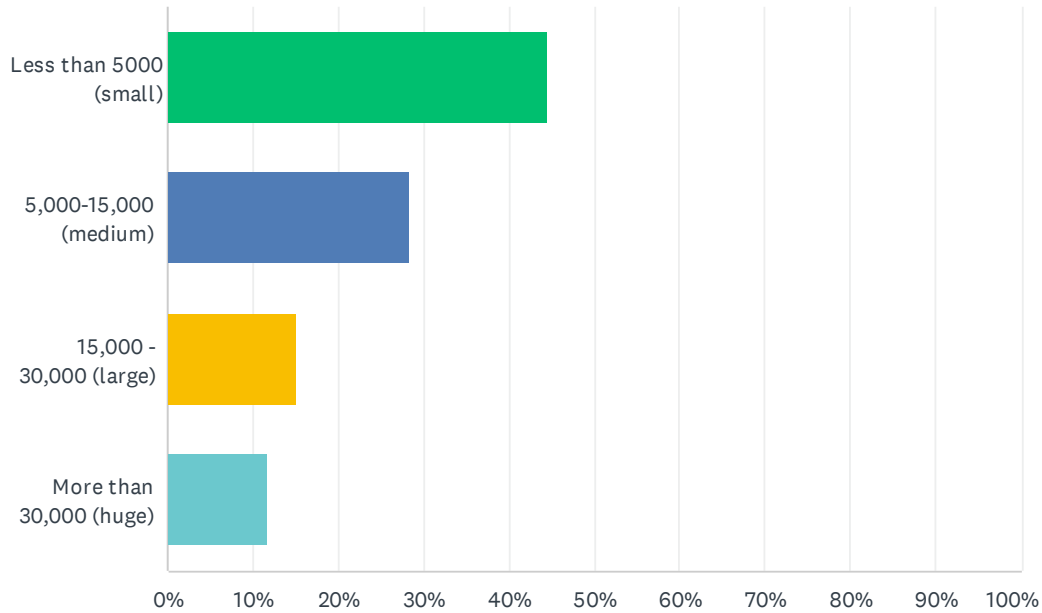
Answered: 204 Skipped: 8



ANSWER CHOICES	RESPONSES	
Two-year Associate's degree	1.96%	4
Bachelor's degree	48.04%	98
Master's Degree	16.67%	34
Doctoral degree	31.37%	64
Other (please specify)	1.96%	4
TOTAL		204

Q5 Please indicate the size of your institution's total undergraduate (all majors) population.

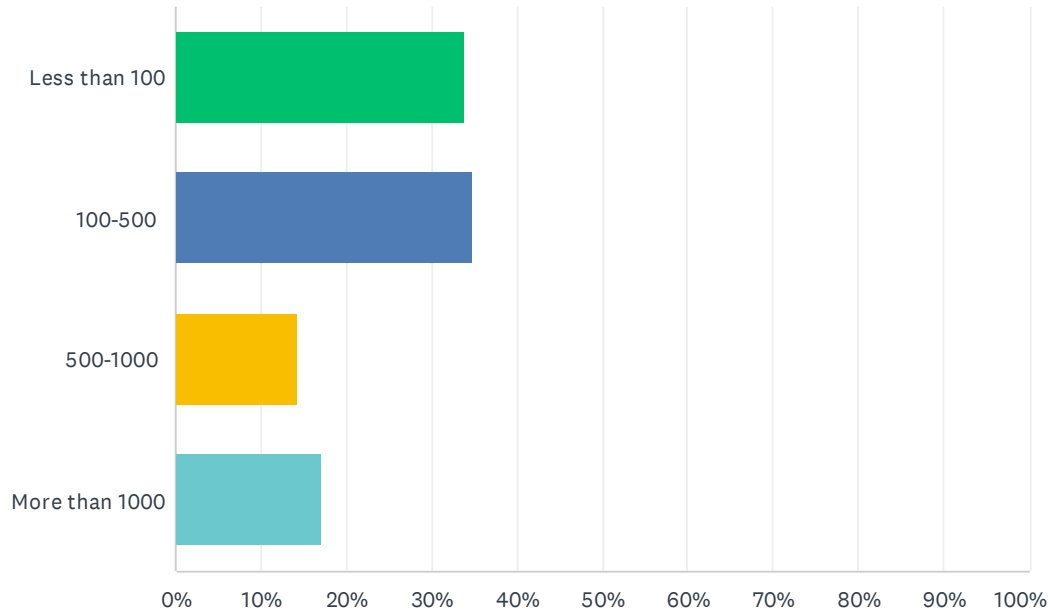
Answered: 204 Skipped: 8



ANSWER CHOICES	RESPONSES
Less than 5000 (small)	44.61% 91
5,000-15,000 (medium)	28.43% 58
15,000 - 30,000 (large)	15.20% 31
More than 30,000 (huge)	11.76% 24
TOTAL	204

Q6 Please indicate the size of your total undergraduate computer science student population.

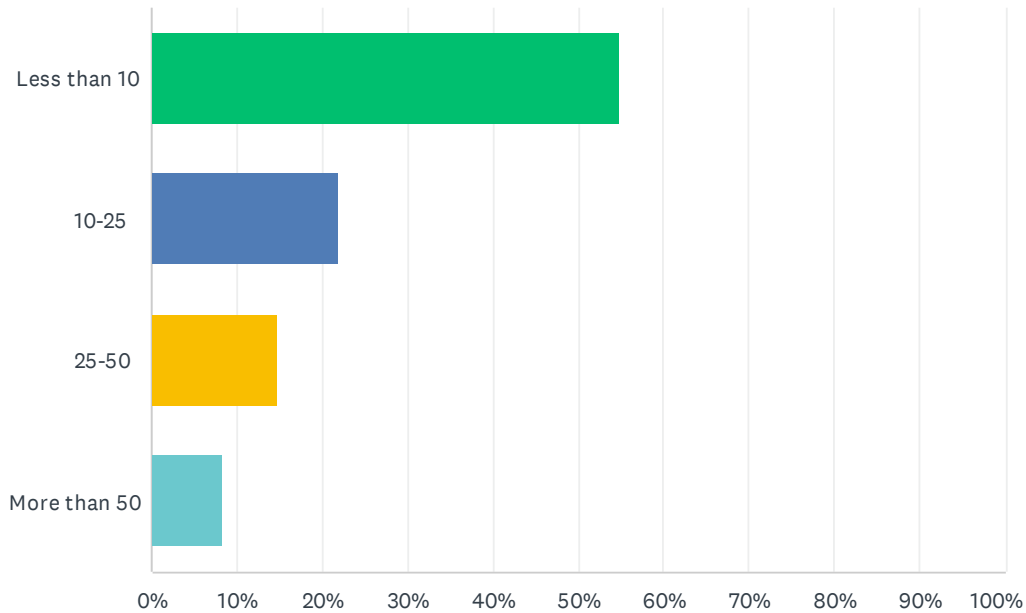
Answered: 204 Skipped: 8



ANSWER CHOICES	RESPONSES
Less than 100	33.82% 69
100-500	34.80% 71
500-1000	14.22% 29
More than 1000	17.16% 35
TOTAL	204

Q7 Please indicate the full-time equivalent (FTE) size of your faculty (including part-time/adjuncts) teaching in your undergraduate computer science program.

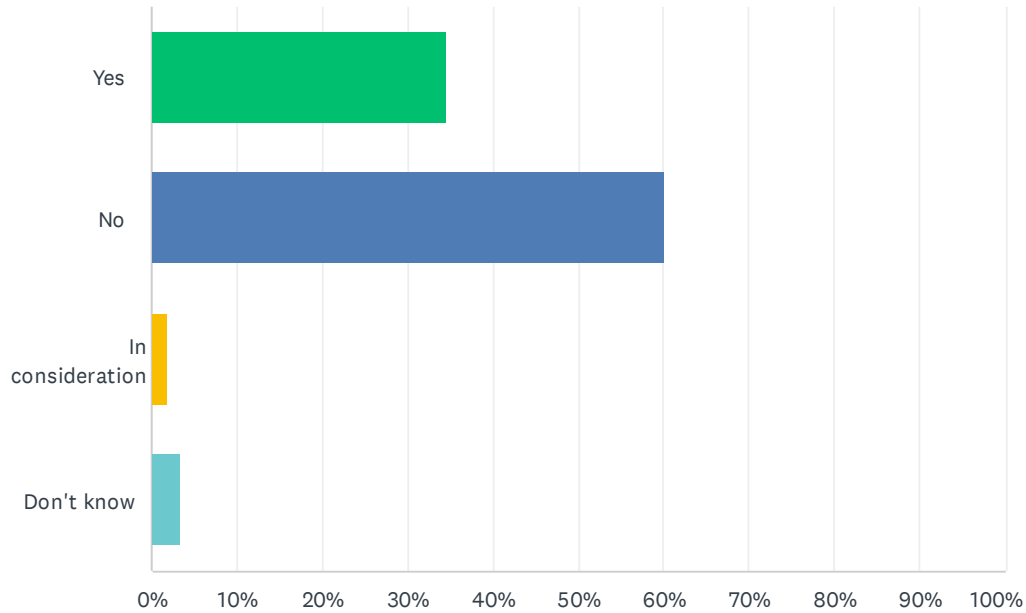
Answered: 204 Skipped: 8



ANSWER CHOICES	RESPONSES	
Less than 10	54.90%	112
10-25	22.06%	45
25-50	14.71%	30
More than 50	8.33%	17
TOTAL		204

Q8 Is your undergraduate degree program in Computer Science ABET-accredited?

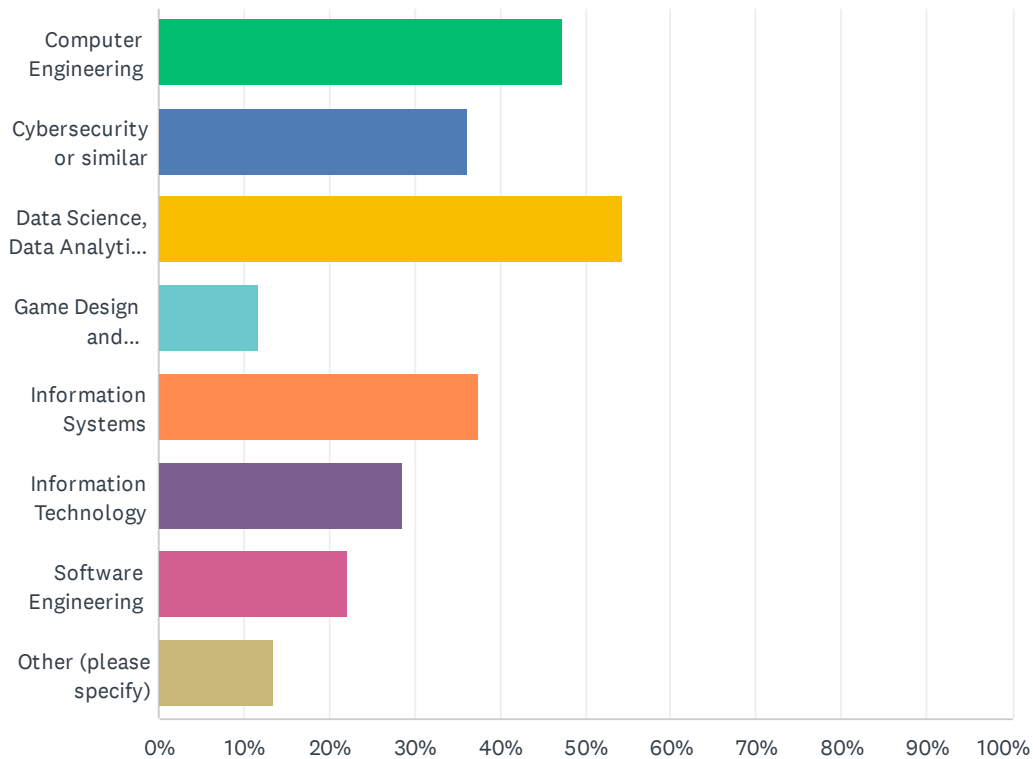
Answered: 203 Skipped: 9



ANSWER CHOICES	RESPONSES	
Yes	34.48%	70
No	60.10%	122
In consideration	1.97%	4
Don't know	3.45%	7
TOTAL		203

Q9 Please select other computing degrees offered by your institution. (Select all choices that apply):

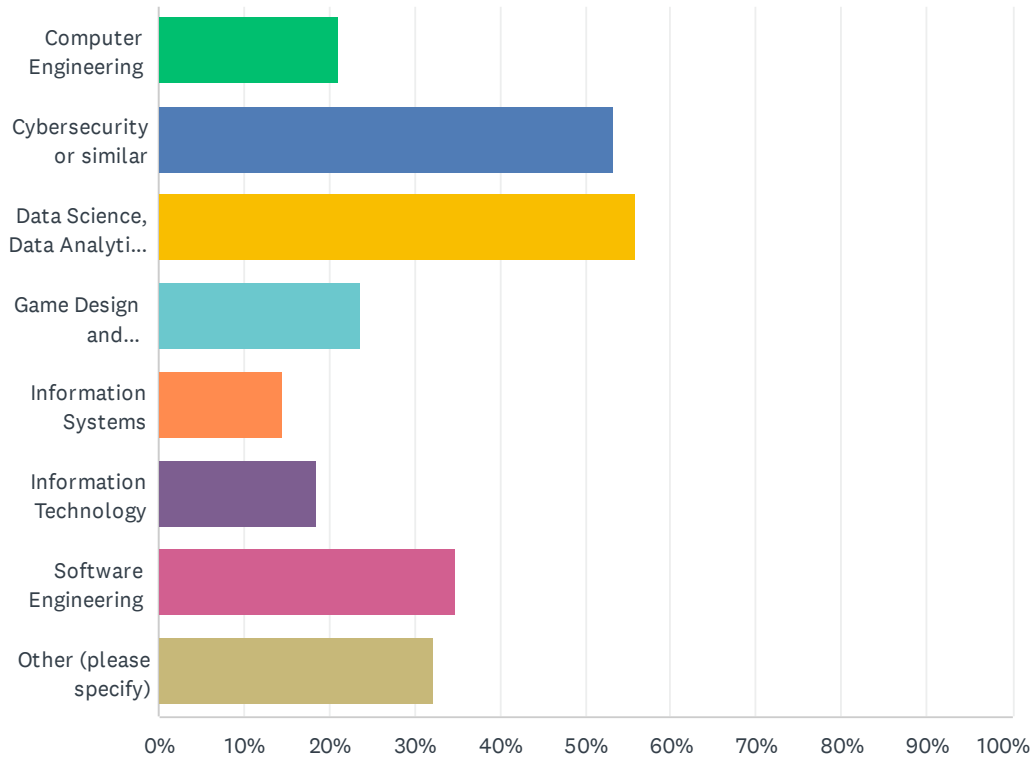
Answered: 171 Skipped: 41



ANSWER CHOICES	RESPONSES	
Computer Engineering	47.37%	81
Cybersecurity or similar	36.26%	62
Data Science, Data Analytics, or similar	54.39%	93
Game Design and Development, or similar	11.70%	20
Information Systems	37.43%	64
Information Technology	28.65%	49
Software Engineering	22.22%	38
Other (please specify)	13.45%	23
Total Respondents: 171		

Q10 Please select all the tracks and concentrations within computer science offered by your institution (select all choices that apply):

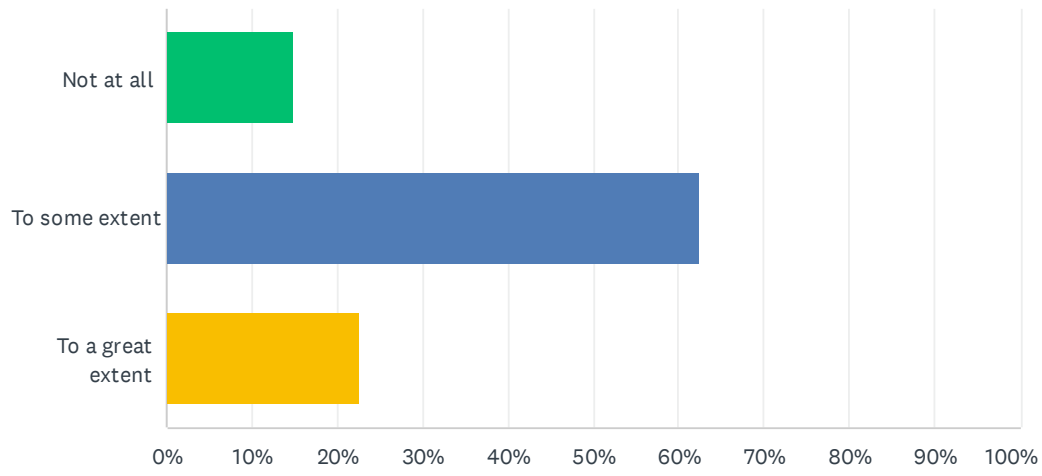
Answered: 118 Skipped: 94



ANSWER CHOICES	RESPONSES	
Computer Engineering	21.19%	25
Cybersecurity or similar	53.39%	63
Data Science, Data Analytics, or similar	55.93%	66
Game Design and Development, or similar	23.73%	28
Information Systems	14.41%	17
Information Technology	18.64%	22
Software Engineering	34.75%	41
Other (please specify)	32.20%	38
Total Respondents: 118		

Q11 To what extent did CS2013 influence your program?

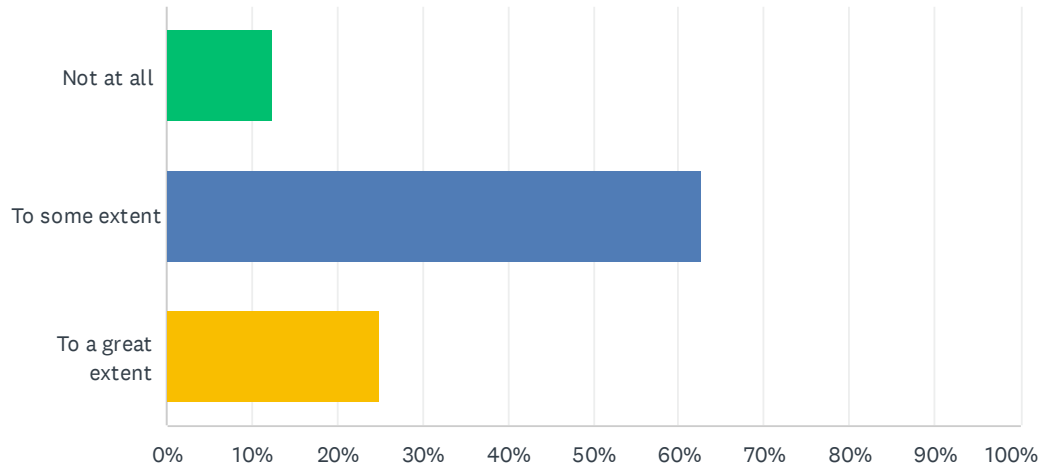
Answered: 200 Skipped: 12



ANSWER CHOICES	RESPONSES
Not at all	15.00% 30
To some extent	62.50% 125
To a great extent	22.50% 45
TOTAL	200

Q12 How familiar with CS2013 are the faculty most responsible for your undergraduate curriculum?

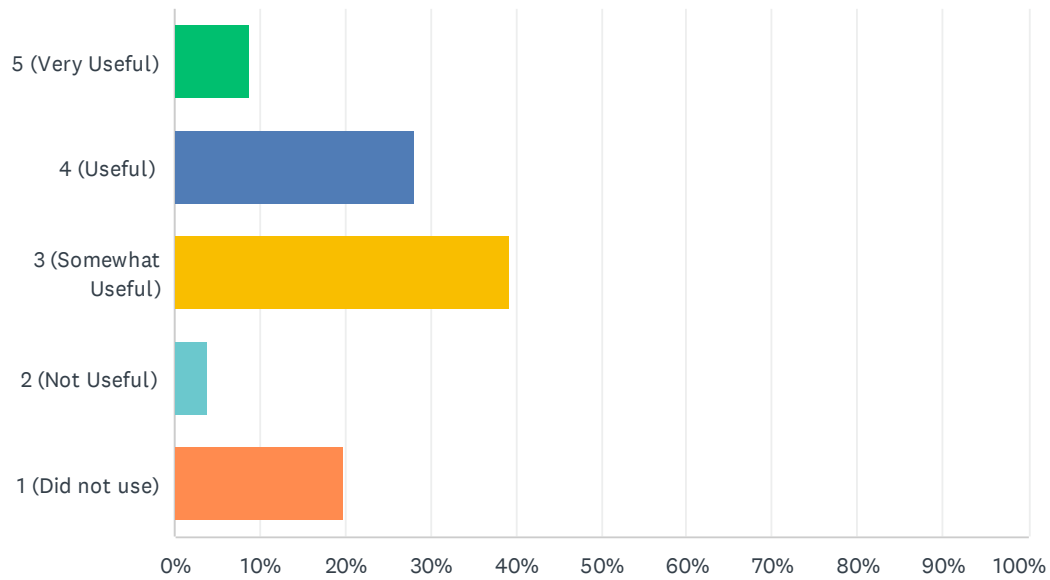
Answered: 201 Skipped: 11



ANSWER CHOICES	RESPONSES	
Not at all	12.44%	25
To some extent	62.69%	126
To a great extent	24.88%	50
TOTAL		201

Q13 Chapter 1 Introduction

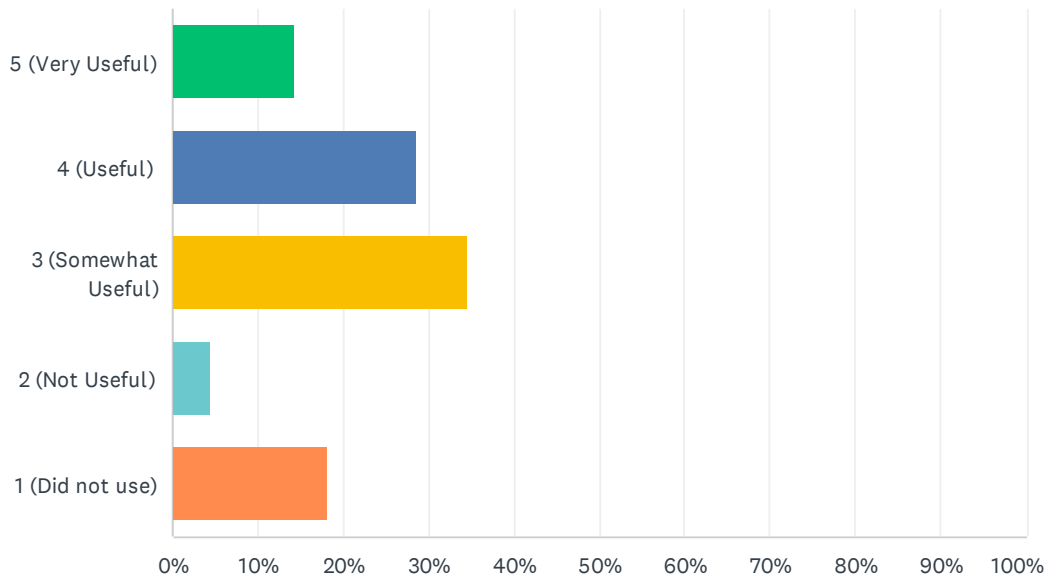
Answered: 181 Skipped: 31



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	8.84%	16
4 (Useful)	28.18%	51
3 (Somewhat Useful)	39.23%	71
2 (Not Useful)	3.87%	7
1 (Did not use)	19.89%	36
TOTAL		181

Q14 Chapter 2 Principles

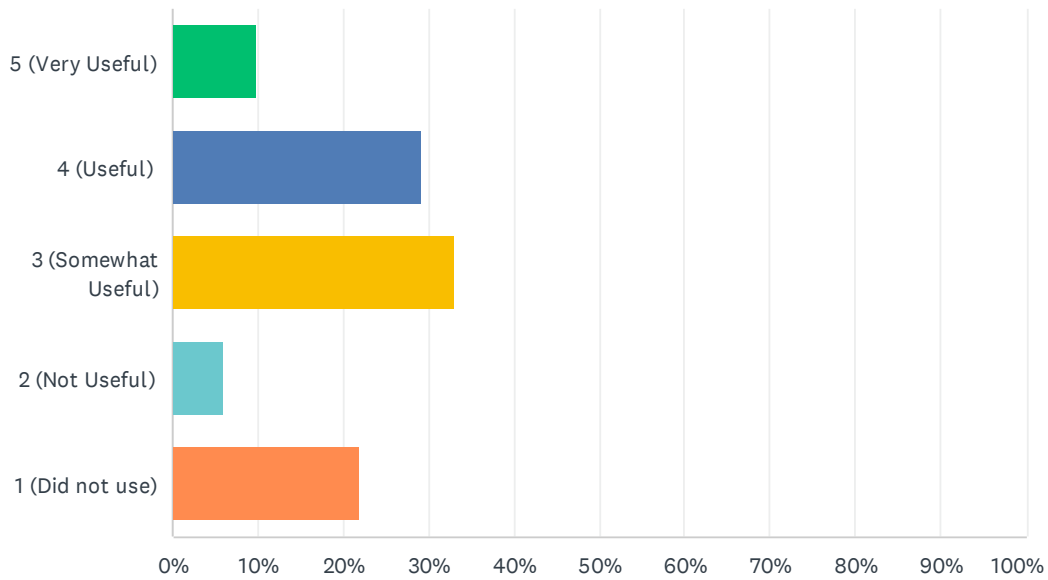
Answered: 182 Skipped: 30



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	14.29%	26
4 (Useful)	28.57%	52
3 (Somewhat Useful)	34.62%	63
2 (Not Useful)	4.40%	8
1 (Did not use)	18.13%	33
TOTAL		182

Q15 Chapter 3 Characteristics of Graduates

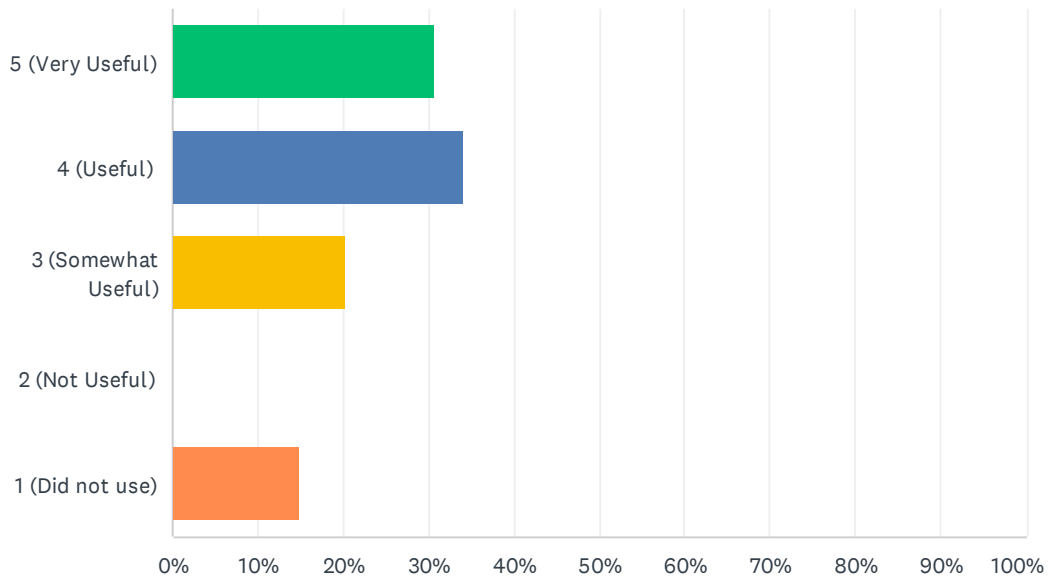
Answered: 182 Skipped: 30



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	9.89%	18
4 (Useful)	29.12%	53
3 (Somewhat Useful)	32.97%	60
2 (Not Useful)	6.04%	11
1 (Did not use)	21.98%	40
TOTAL		182

Q16 Chapter 4 Introduction to the Body of Knowledge

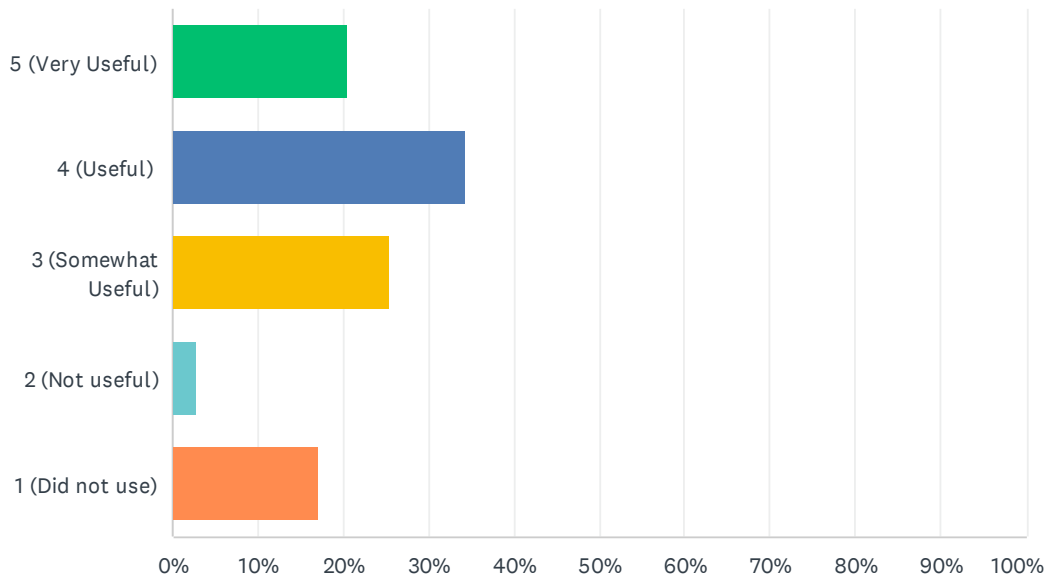
Answered: 182 Skipped: 30



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	30.77%	56
4 (Useful)	34.07%	62
3 (Somewhat Useful)	20.33%	37
2 (Not Useful)	0.00%	0
1 (Did not use)	14.84%	27
TOTAL		182

Q17 Chapter 5 Introductory Courses

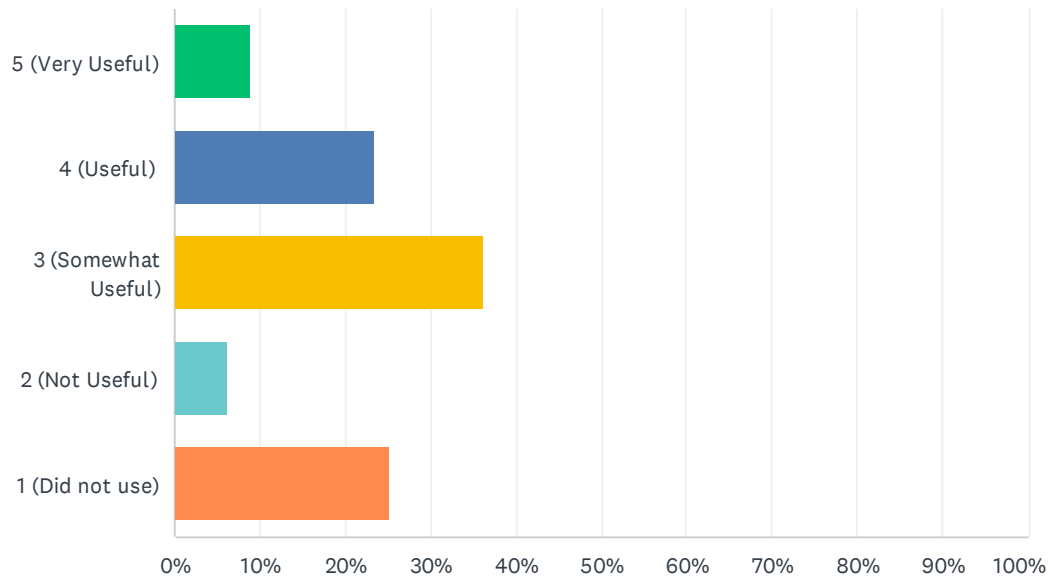
Answered: 181 Skipped: 31



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	20.44%	37
4 (Useful)	34.25%	62
3 (Somewhat Useful)	25.41%	46
2 (Not useful)	2.76%	5
1 (Did not use)	17.13%	31
TOTAL		181

Q18 Chapter 6 Institutional Challenges

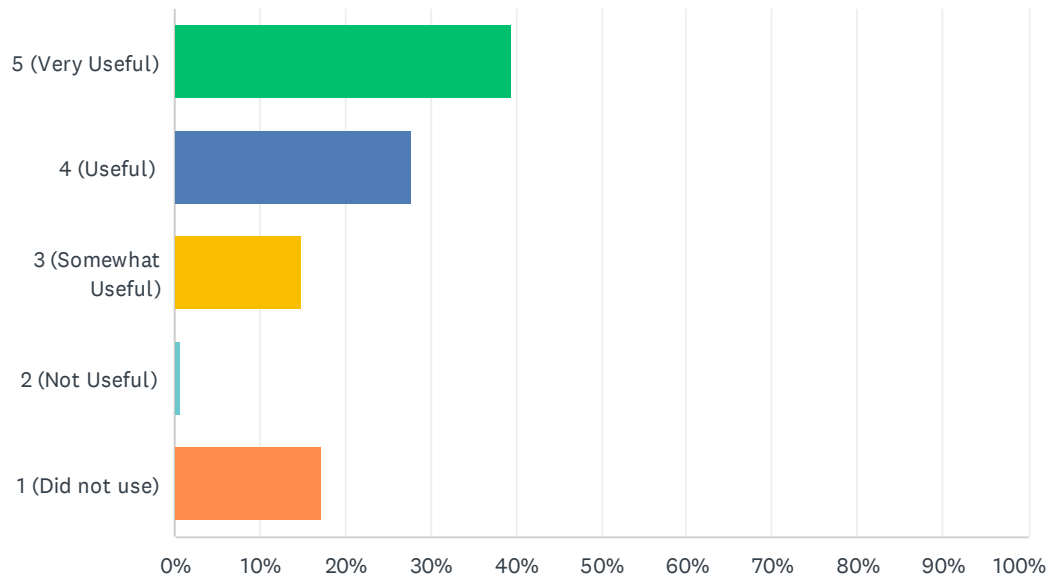
Answered: 179 Skipped: 33



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	8.94%	16
4 (Useful)	23.46%	42
3 (Somewhat Useful)	36.31%	65
2 (Not Useful)	6.15%	11
1 (Did not use)	25.14%	45
TOTAL		179

Q19 Appendix A The Body of Knowledge

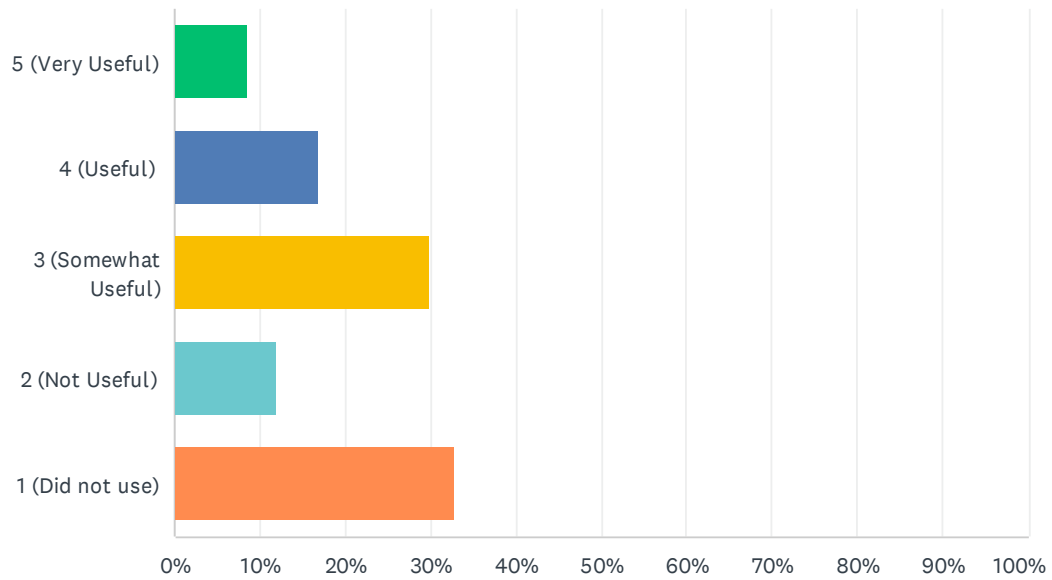
Answered: 180 Skipped: 32



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	39.44%	71
4 (Useful)	27.78%	50
3 (Somewhat Useful)	15.00%	27
2 (Not Useful)	0.56%	1
1 (Did not use)	17.22%	31
TOTAL		180

Q20 Appendix B Migrating to CS2013

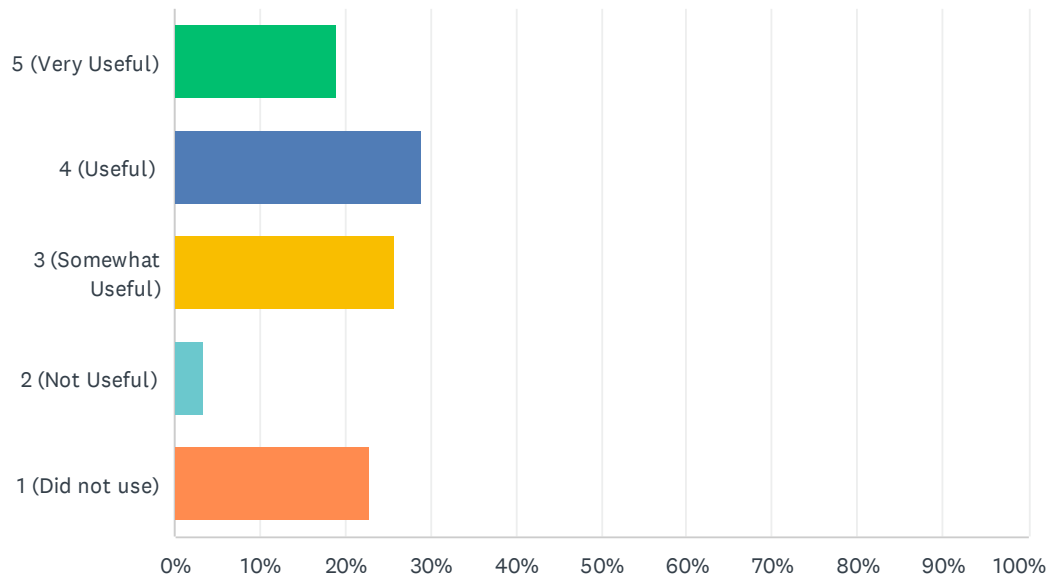
Answered: 177 Skipped: 35



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	8.47%	15
4 (Useful)	16.95%	30
3 (Somewhat Useful)	29.94%	53
2 (Not Useful)	11.86%	21
1 (Did not use)	32.77%	58
TOTAL		177

Q21 Appendix C Course Exemplars

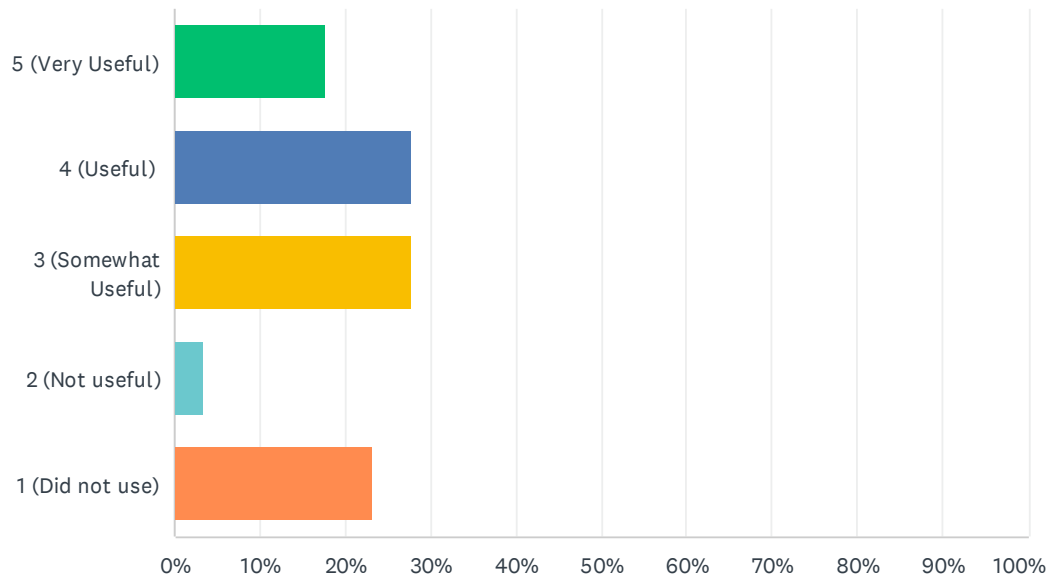
Answered: 179 Skipped: 33



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	18.99%	34
4 (Useful)	29.05%	52
3 (Somewhat Useful)	25.70%	46
2 (Not Useful)	3.35%	6
1 (Did not use)	22.91%	41
TOTAL		179

Q22 Appendix D Curricular Exemplars

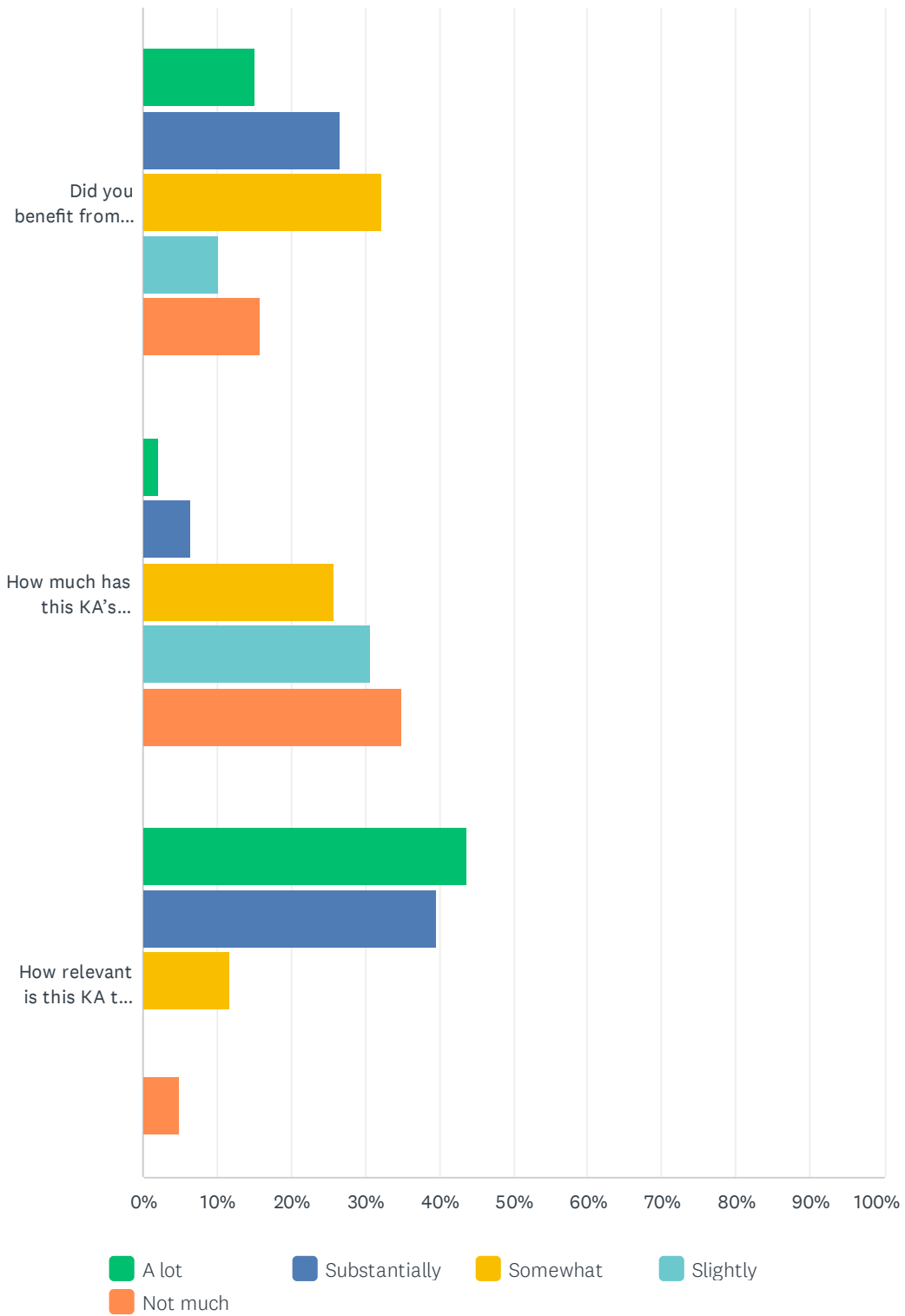
Answered: 180 Skipped: 32



ANSWER CHOICES	RESPONSES	
5 (Very Useful)	17.78%	32
4 (Useful)	27.78%	50
3 (Somewhat Useful)	27.78%	50
2 (Not useful)	3.33%	6
1 (Did not use)	23.33%	42
TOTAL		180

Q23 Algorithms and Complexity (AL)

Answered: 147 Skipped: 65

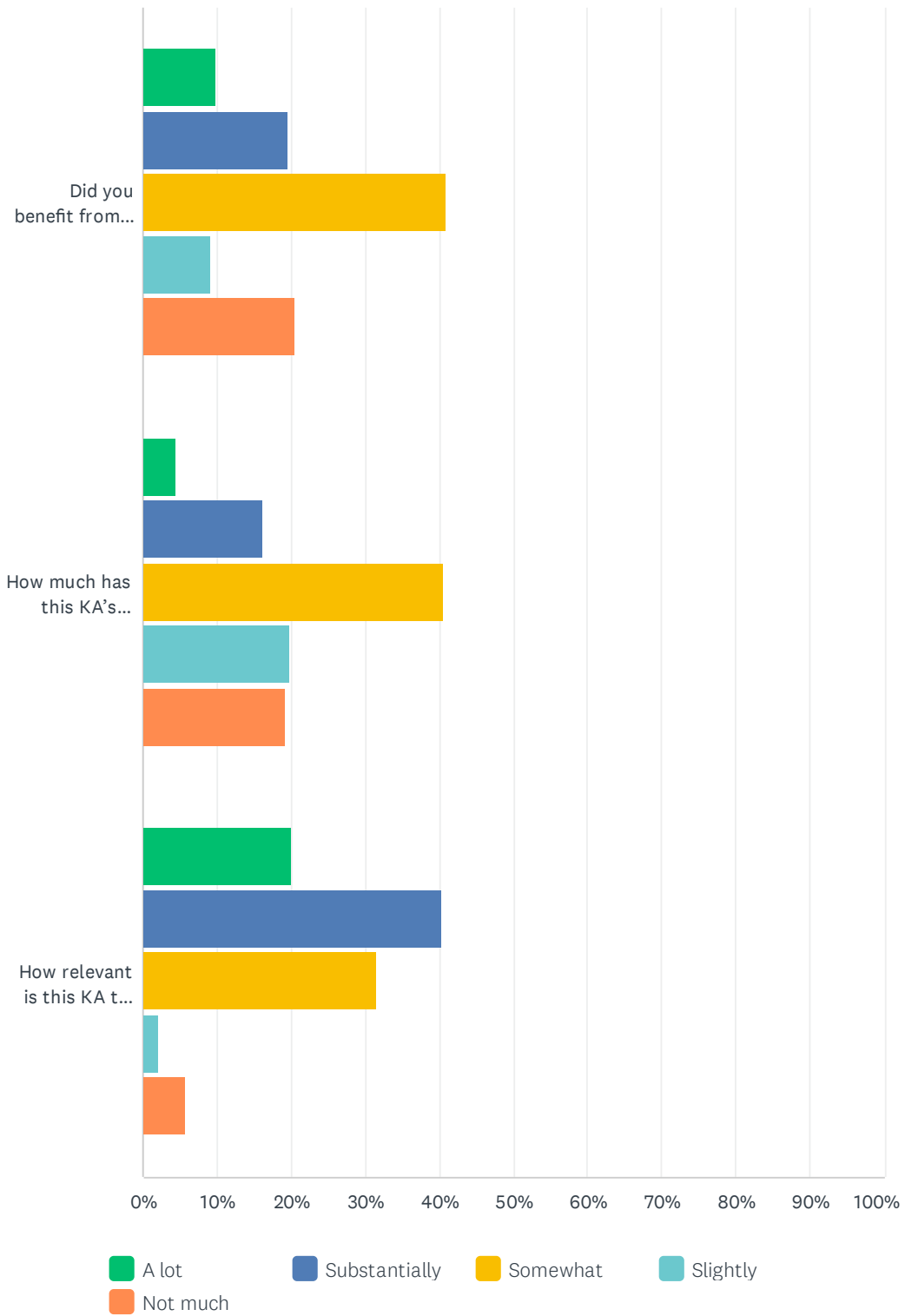


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	15.07% 22	26.71% 39	32.19% 47	10.27% 15	15.75% 23	146
How much has this KA's content changed since 2013?	2.14% 3	6.43% 9	25.71% 36	30.71% 43	35.00% 49	140
How relevant is this KA to CS today?	43.75% 63	39.58% 57	11.81% 17	0.00% 0	4.86% 7	144

Q24 Architecture and Organization (AR)

Answered: 143 Skipped: 69

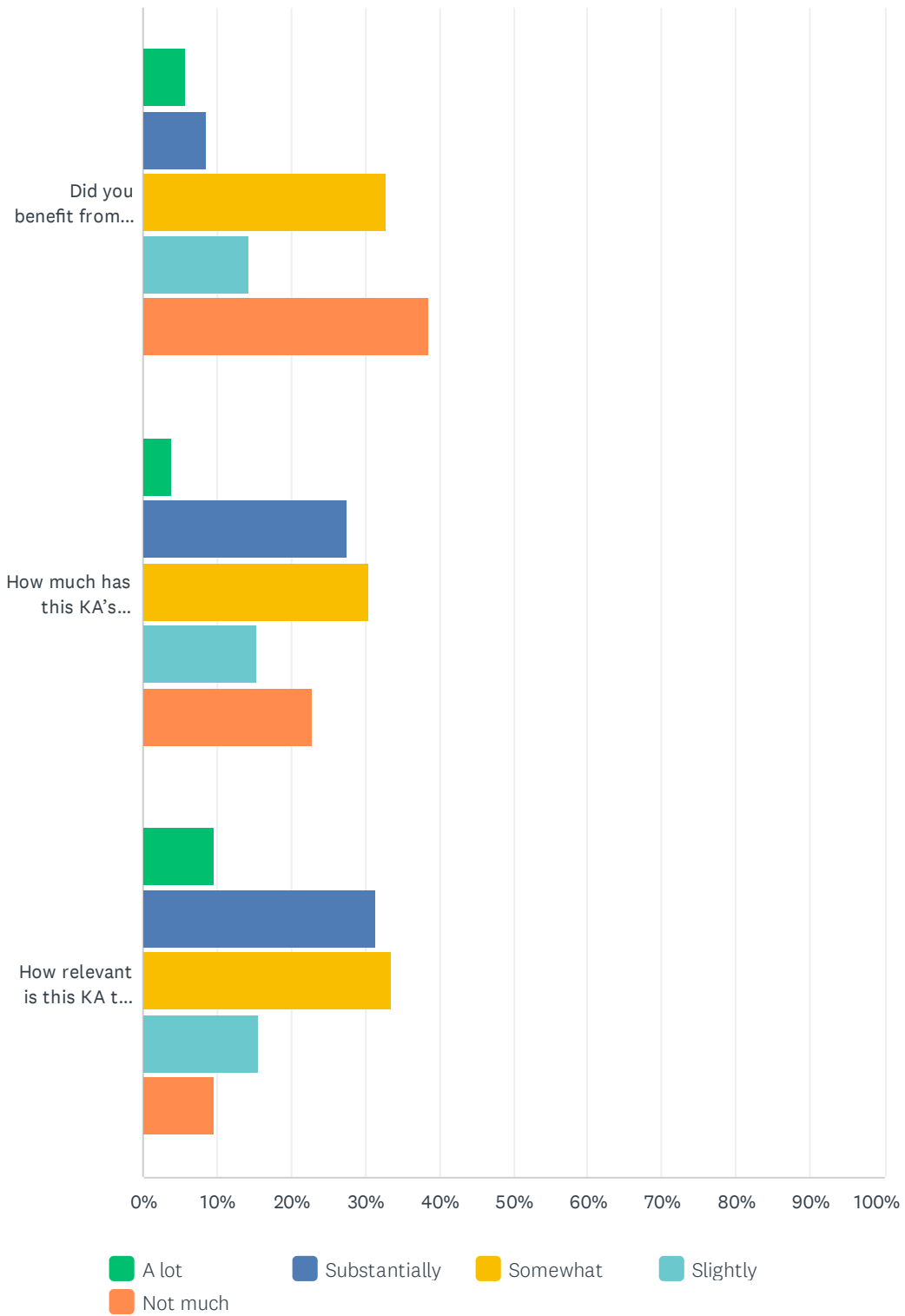


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	9.86% 14	19.72% 28	40.85% 58	9.15% 13	20.42% 29	142
How much has this KA's content changed since 2013?	4.41% 6	16.18% 22	40.44% 55	19.85% 27	19.12% 26	136
How relevant is this KA to CS today?	20.14% 28	40.29% 56	31.65% 44	2.16% 3	5.76% 8	139

Q25 Computational Science (CN)

Answered: 141 Skipped: 71

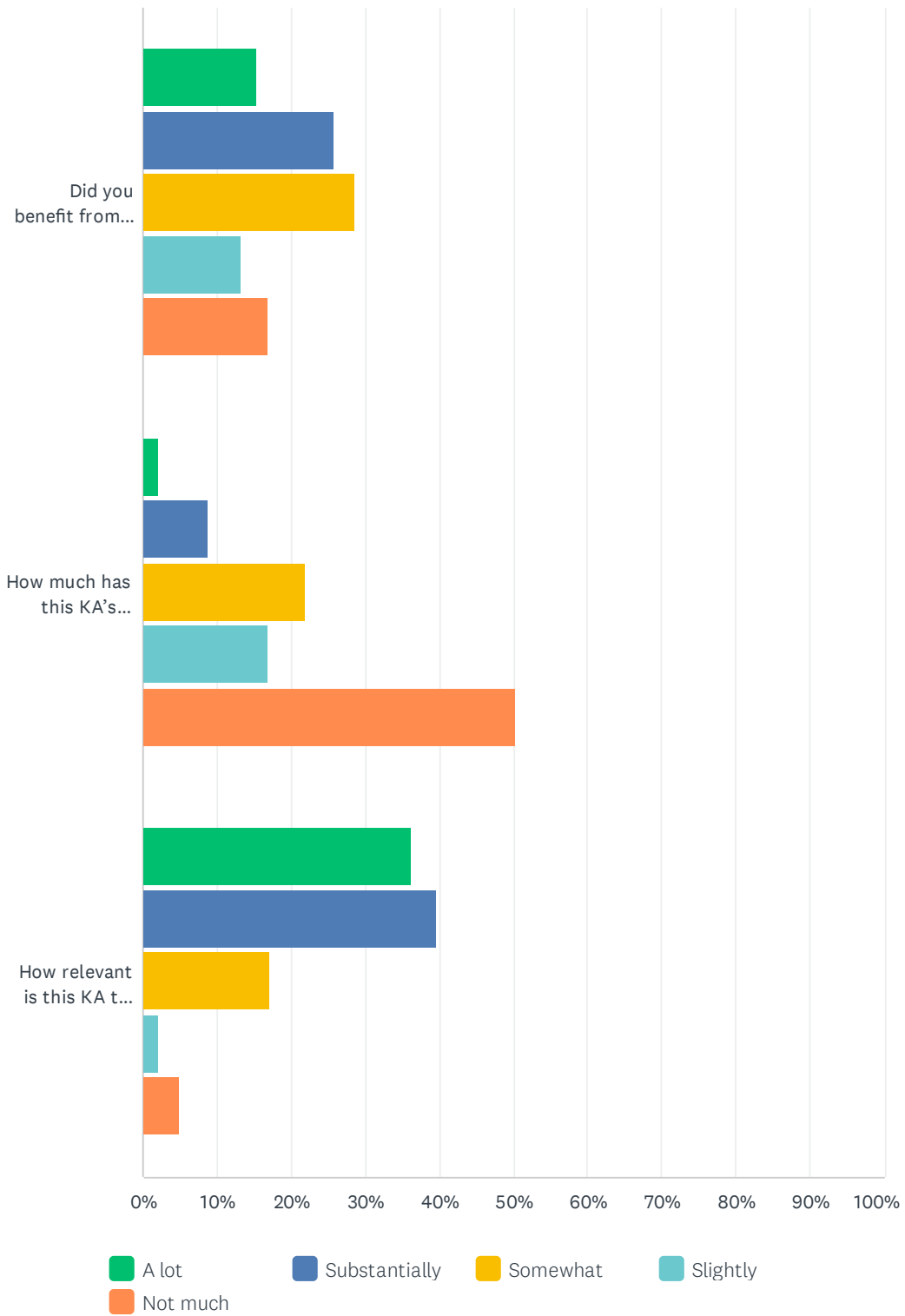


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	5.71% 8	8.57% 12	32.86% 46	14.29% 20	38.57% 54	140
How much has this KA's content changed since 2013?	3.82% 5	27.48% 36	30.53% 40	15.27% 20	22.90% 30	131
How relevant is this KA to CS today?	9.70% 13	31.34% 42	33.58% 45	15.67% 21	9.70% 13	134

Q26 Discrete Structures (DS)

Answered: 144 Skipped: 68

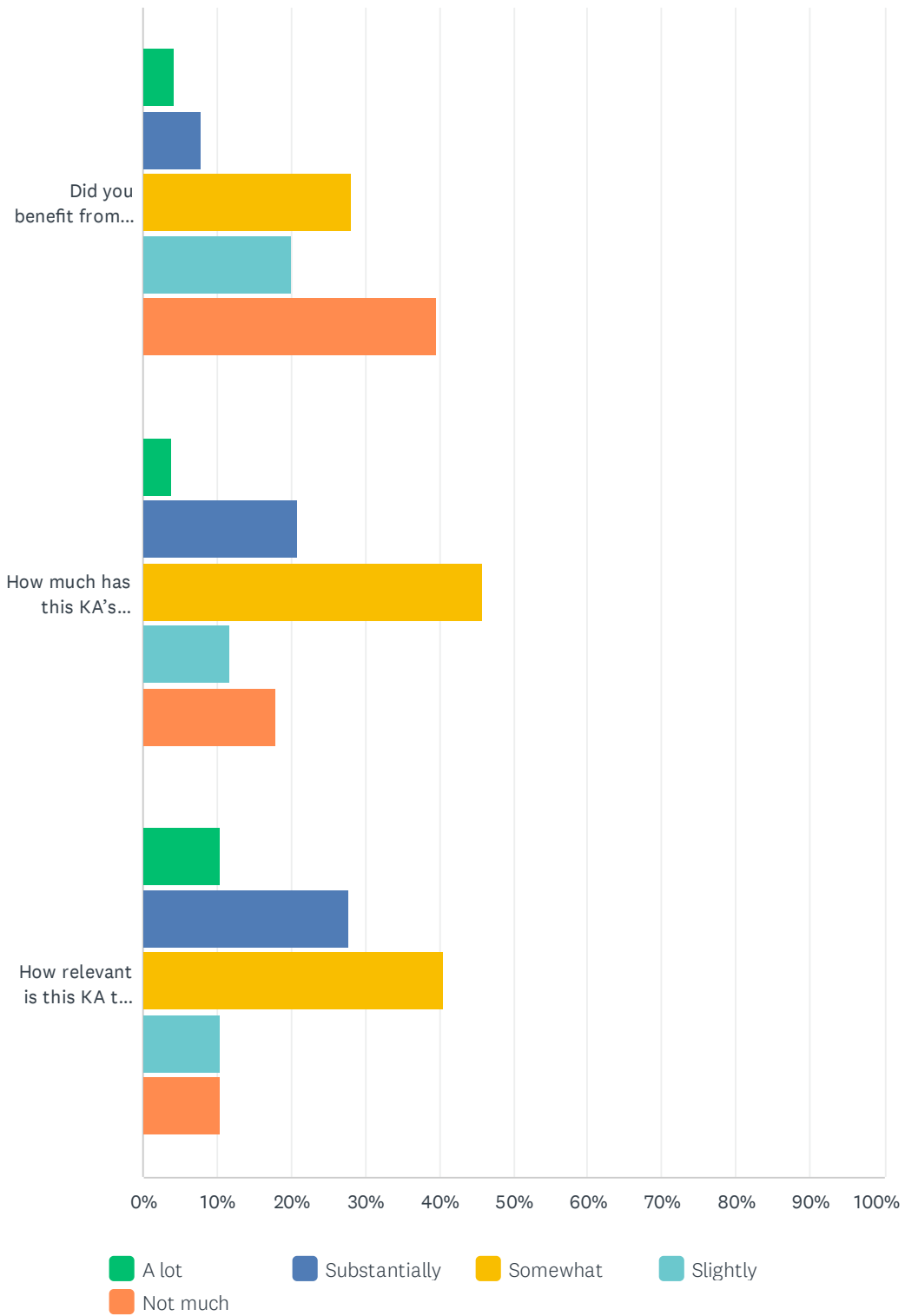


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	15.38% 22	25.87% 37	28.67% 41	13.29% 19	16.78% 24	143
How much has this KA's content changed since 2013?	2.19% 3	8.76% 12	21.90% 30	16.79% 23	50.36% 69	137
How relevant is this KA to CS today?	36.17% 51	39.72% 56	17.02% 24	2.13% 3	4.96% 7	141

Q27 Graphics and Visualization (GV)

Answered: 141 Skipped: 71

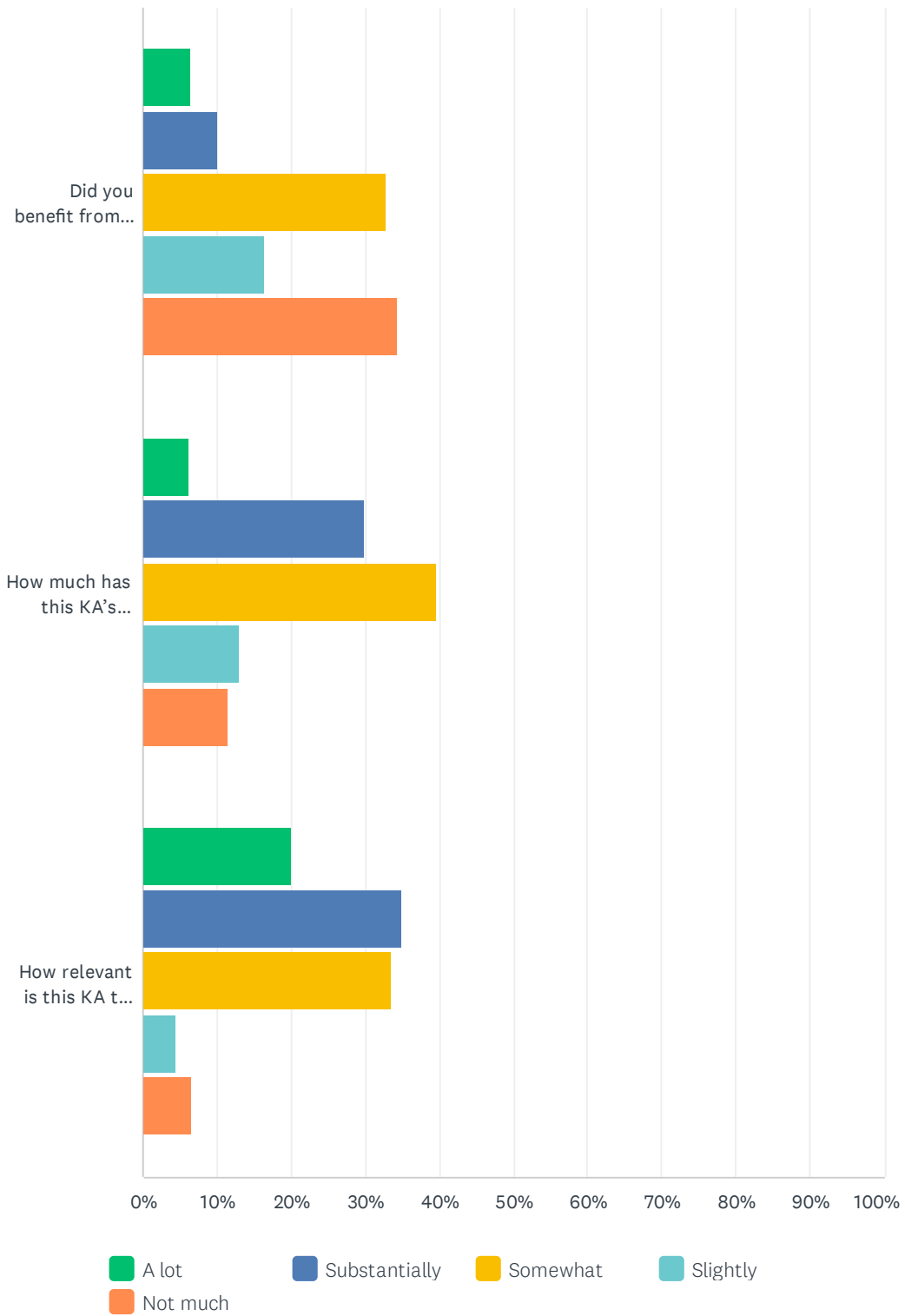


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	4.32% 6	7.91% 11	28.06% 39	20.14% 28	39.57% 55	139
How much has this KA's content changed since 2013?	3.88% 5	20.93% 27	45.74% 59	11.63% 15	17.83% 23	129
How relevant is this KA to CS today?	10.53% 14	27.82% 37	40.60% 54	10.53% 14	10.53% 14	133

Q28 Human-Computer interaction (HCI)

Answered: 142 Skipped: 70

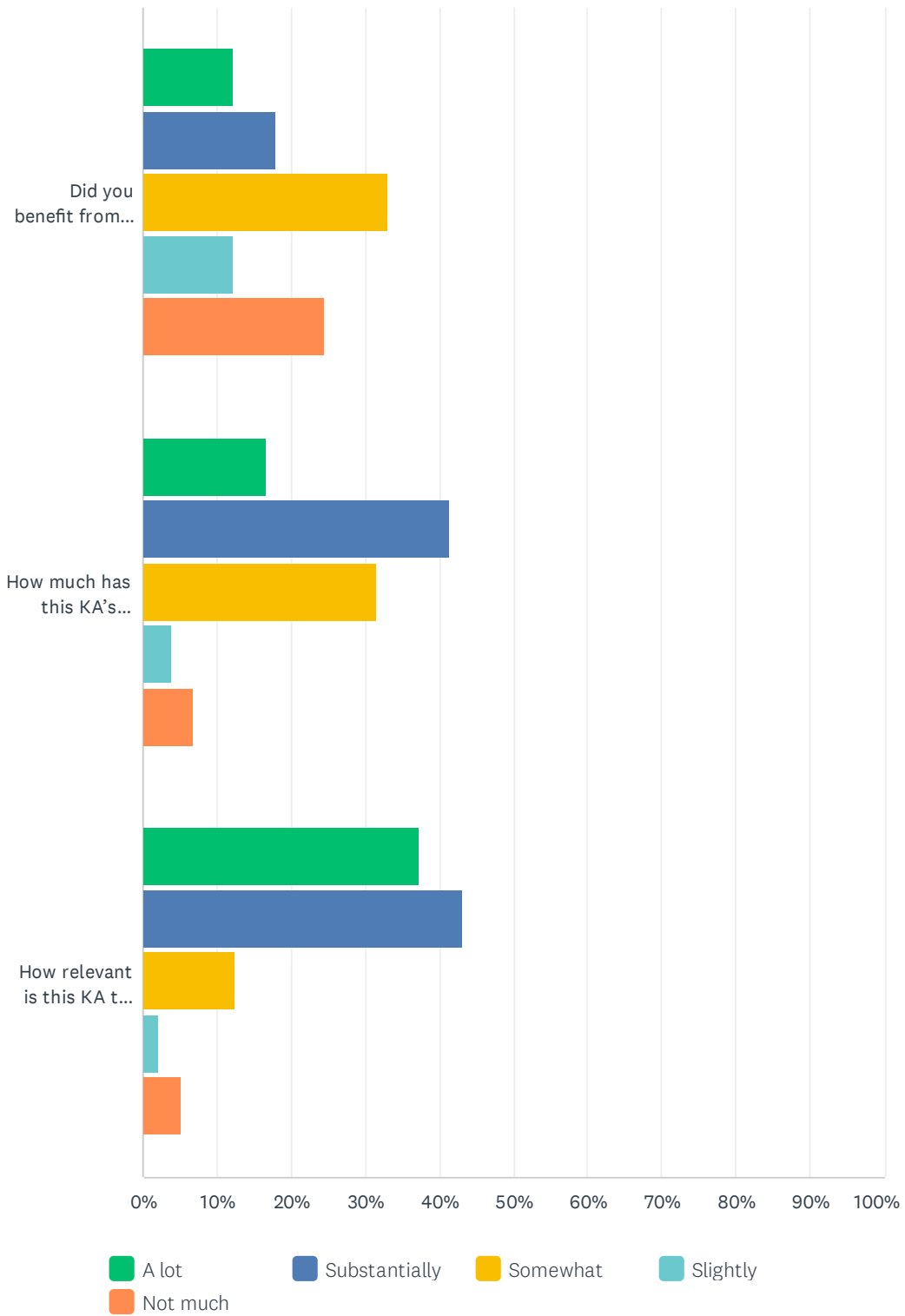


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	6.43% 9	10.00% 14	32.86% 46	16.43% 23	34.29% 48	140
How much has this KA's content changed since 2013?	6.11% 8	29.77% 39	39.69% 52	12.98% 17	11.45% 15	131
How relevant is this KA to CS today?	20.15% 27	35.07% 47	33.58% 45	4.48% 6	6.72% 9	134

Q29 Information Assurance and Security (IAS)

Answered: 143 Skipped: 69

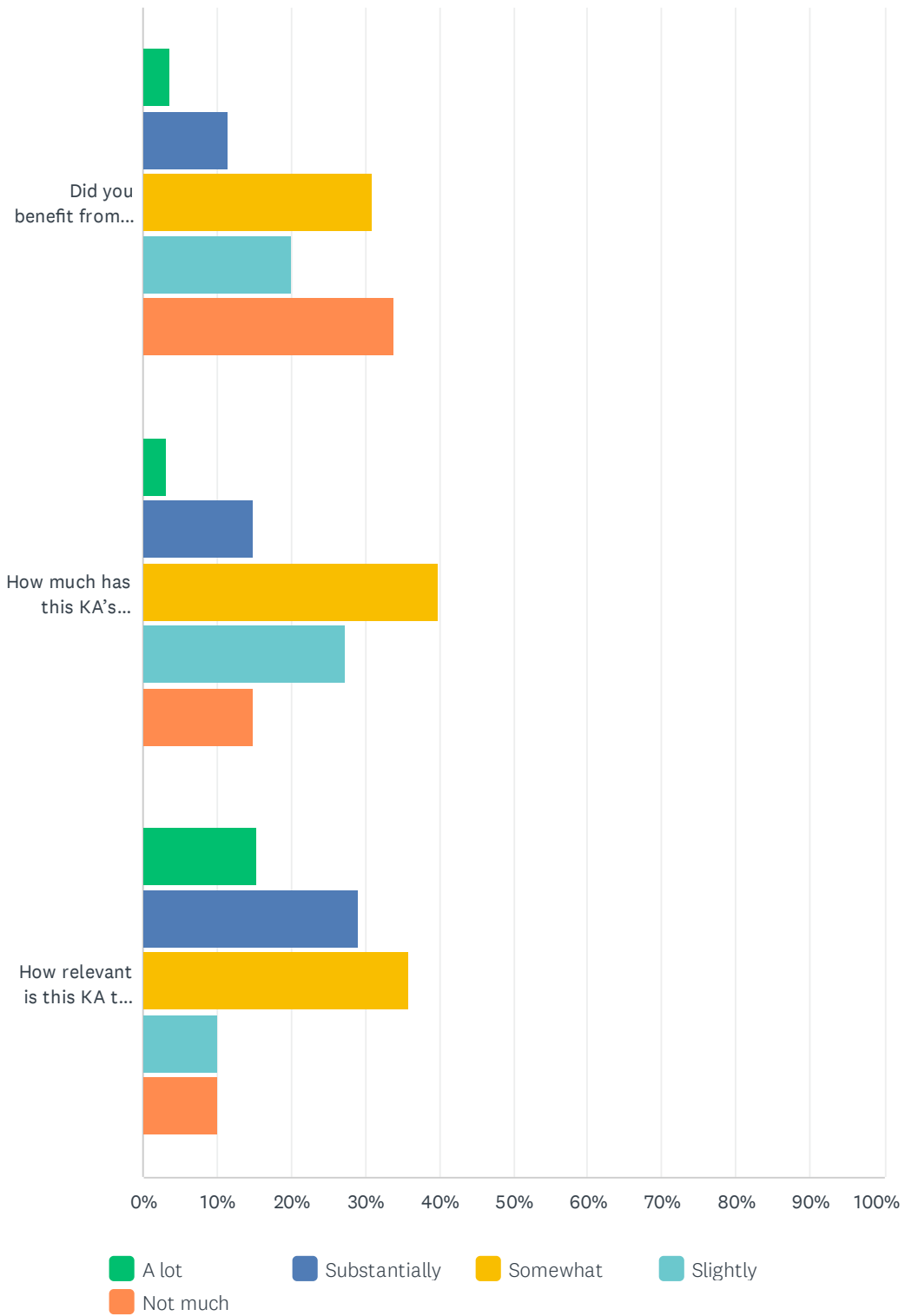


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	12.23% 17	17.99% 25	33.09% 46	12.23% 17	24.46% 34	139
How much has this KA's content changed since 2013?	16.54% 22	41.35% 55	31.58% 42	3.76% 5	6.77% 9	133
How relevant is this KA to CS today?	37.23% 51	43.07% 59	12.41% 17	2.19% 3	5.11% 7	137

Q30 Information Management (IM)

Answered: 141 Skipped: 71

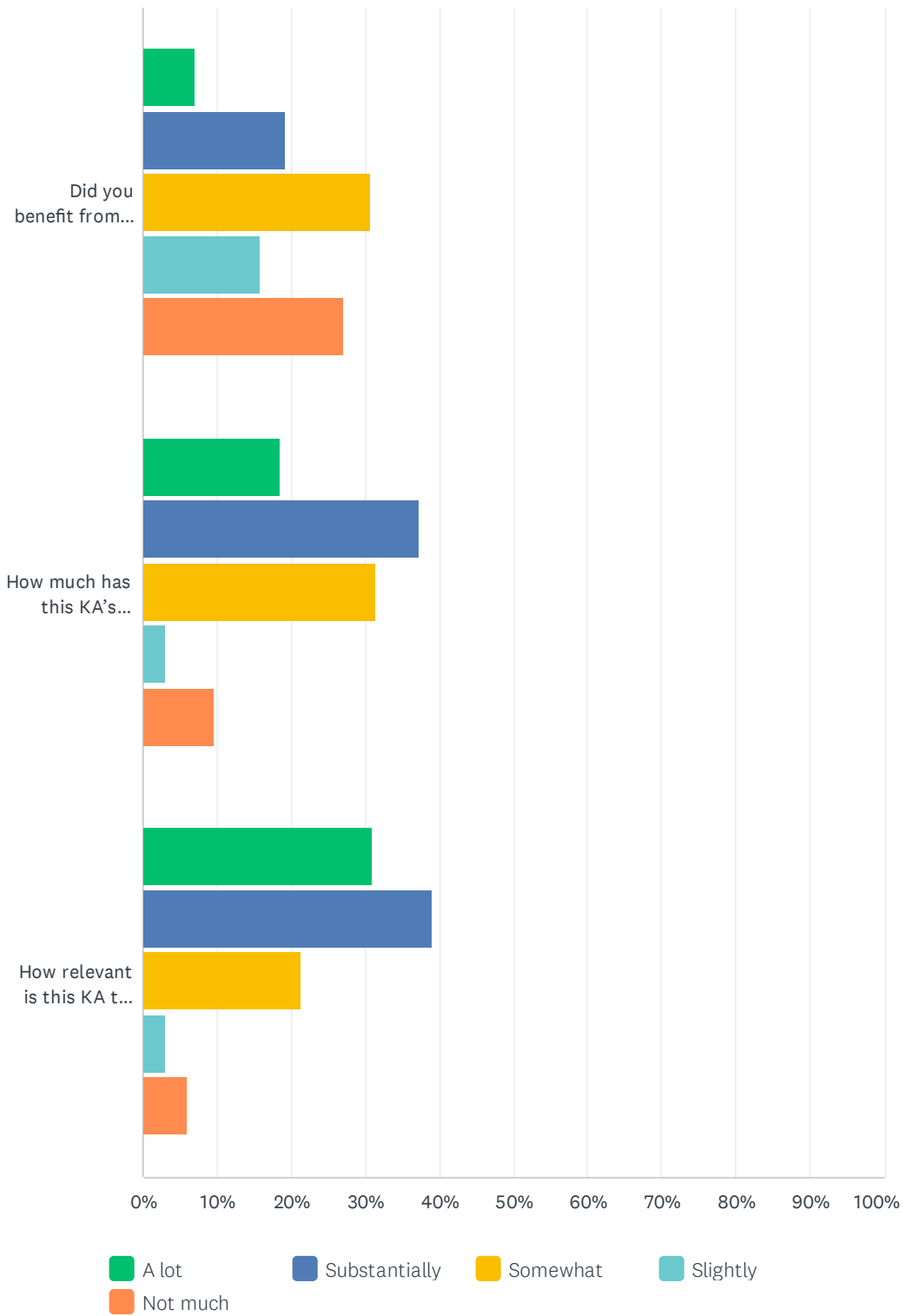


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	3.60% 5	11.51% 16	30.94% 43	20.14% 28	33.81% 47	139
How much has this KA's content changed since 2013?	3.13% 4	14.84% 19	39.84% 51	27.34% 35	14.84% 19	128
How relevant is this KA to CS today?	15.27% 20	29.01% 38	35.88% 47	9.92% 13	9.92% 13	131

Q31 Intelligent systems (IS)

Answered: 142 Skipped: 70

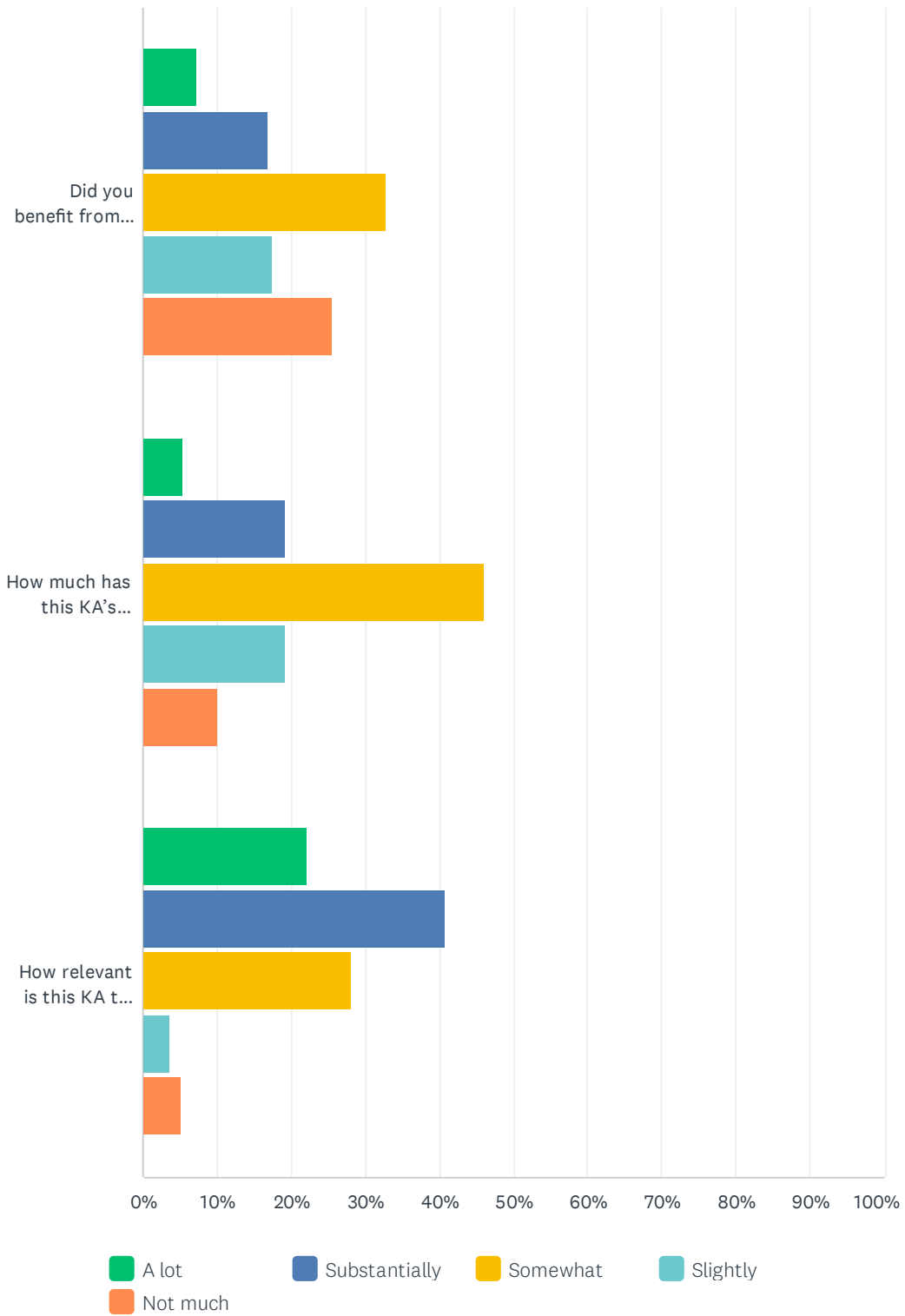


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	7.14% 10	19.29% 27	30.71% 43	15.71% 22	27.14% 38	140
How much has this KA's content changed since 2013?	18.66% 25	37.31% 50	31.34% 42	2.99% 4	9.70% 13	134
How relevant is this KA to CS today?	30.88% 42	38.97% 53	21.32% 29	2.94% 4	5.88% 8	136

Q32 Networking and Communication (NC)

Answered: 139 Skipped: 73

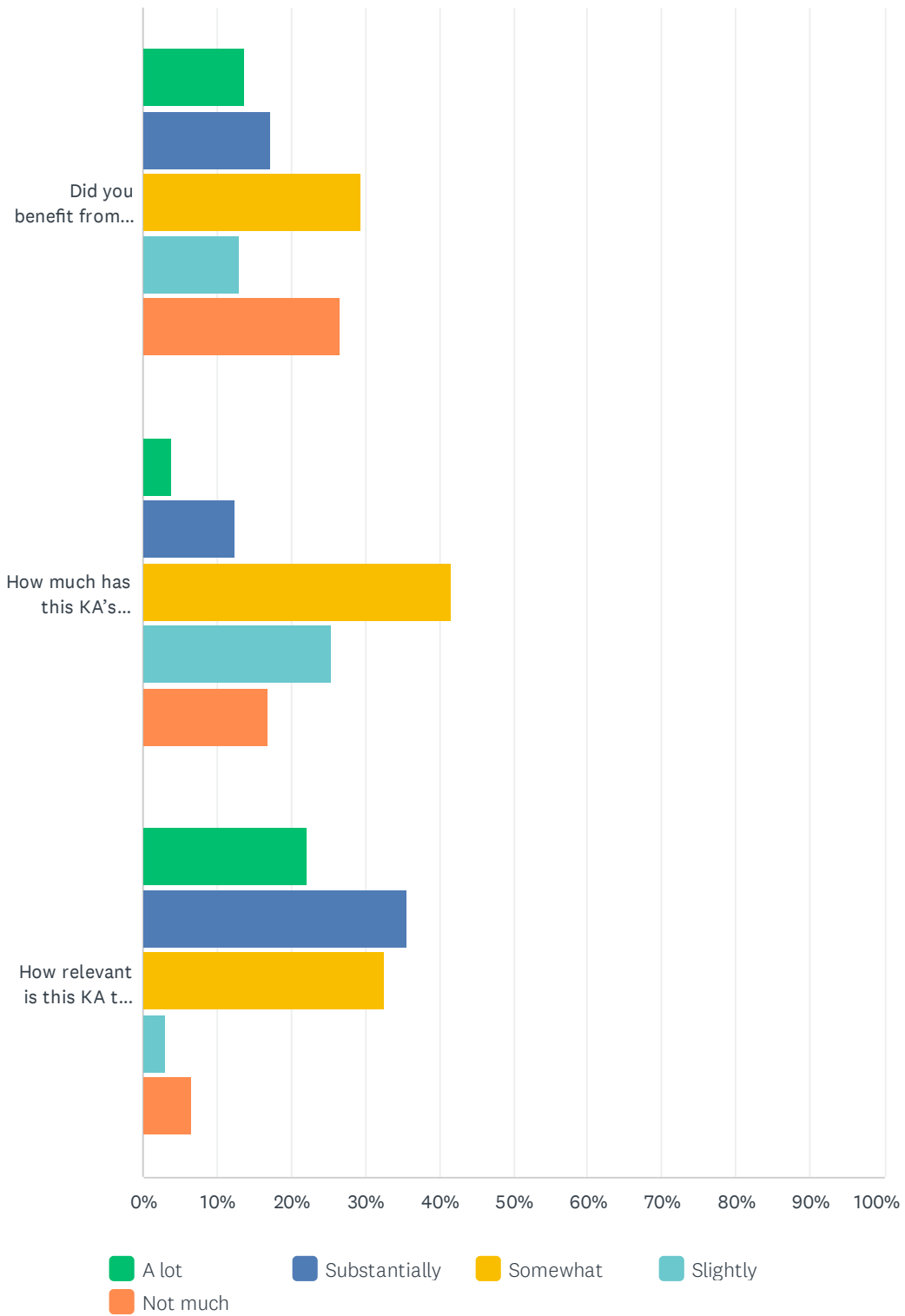


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL	WEIGHTED AVERAGE
Did you benefit from this KA's guidelines?	7.30% 10	16.79% 23	32.85% 45	17.52% 24	25.55% 35	137	3.37
How much has this KA's content changed since 2013?	5.38% 7	19.23% 25	46.15% 60	19.23% 25	10.00% 13	130	3.09
How relevant is this KA to CS today?	22.22% 30	40.74% 55	28.15% 38	3.70% 5	5.19% 7	135	2.29

Q33 Operating Systems (OS)

Answered: 141 Skipped: 71

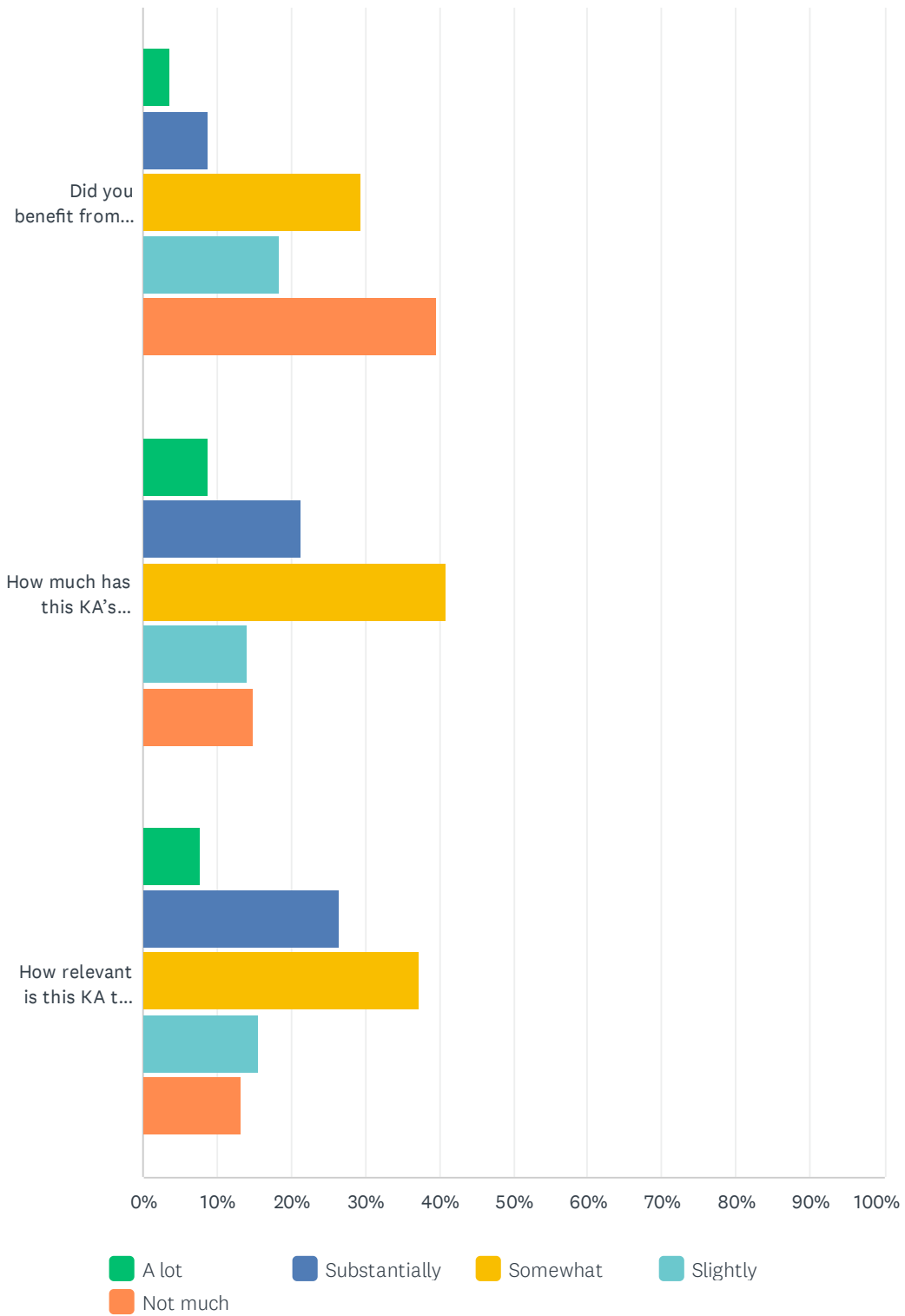


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	13.67% 19	17.27% 24	29.50% 41	12.95% 18	26.62% 37	139
How much has this KA's content changed since 2013?	3.85% 5	12.31% 16	41.54% 54	25.38% 33	16.92% 22	130
How relevant is this KA to CS today?	22.22% 30	35.56% 48	32.59% 44	2.96% 4	6.67% 9	135

Q34 Platform-Based Development (PBD)

Answered: 139 Skipped: 73

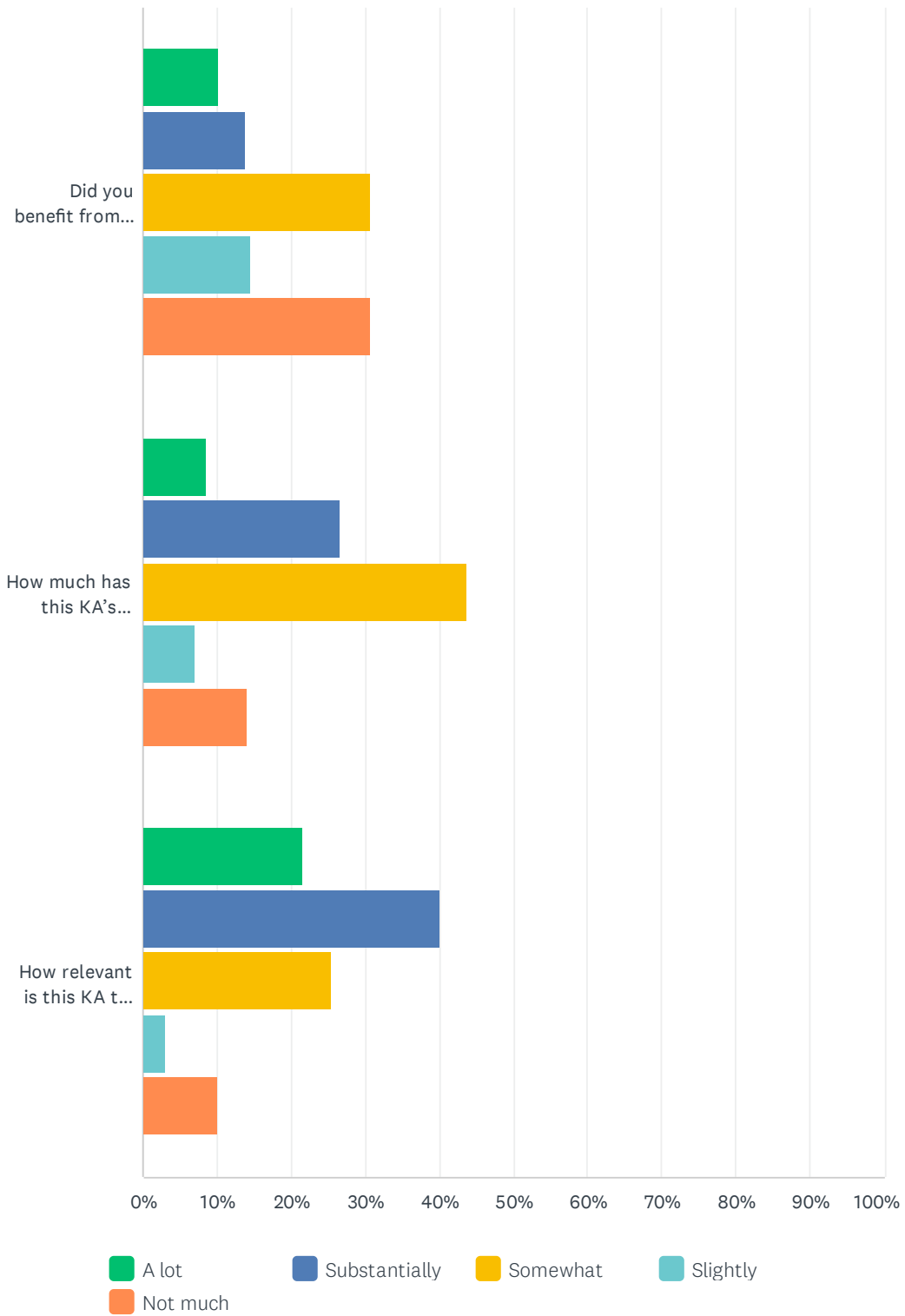


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	3.68% 5	8.82% 12	29.41% 40	18.38% 25	39.71% 54	136
How much has this KA's content changed since 2013?	8.66% 11	21.26% 27	40.94% 52	14.17% 18	14.96% 19	127
How relevant is this KA to CS today?	7.75% 10	26.36% 34	37.21% 48	15.50% 20	13.18% 17	129

Q35 Parallel and Distributed Computing (PD)

Answered: 139 Skipped: 73

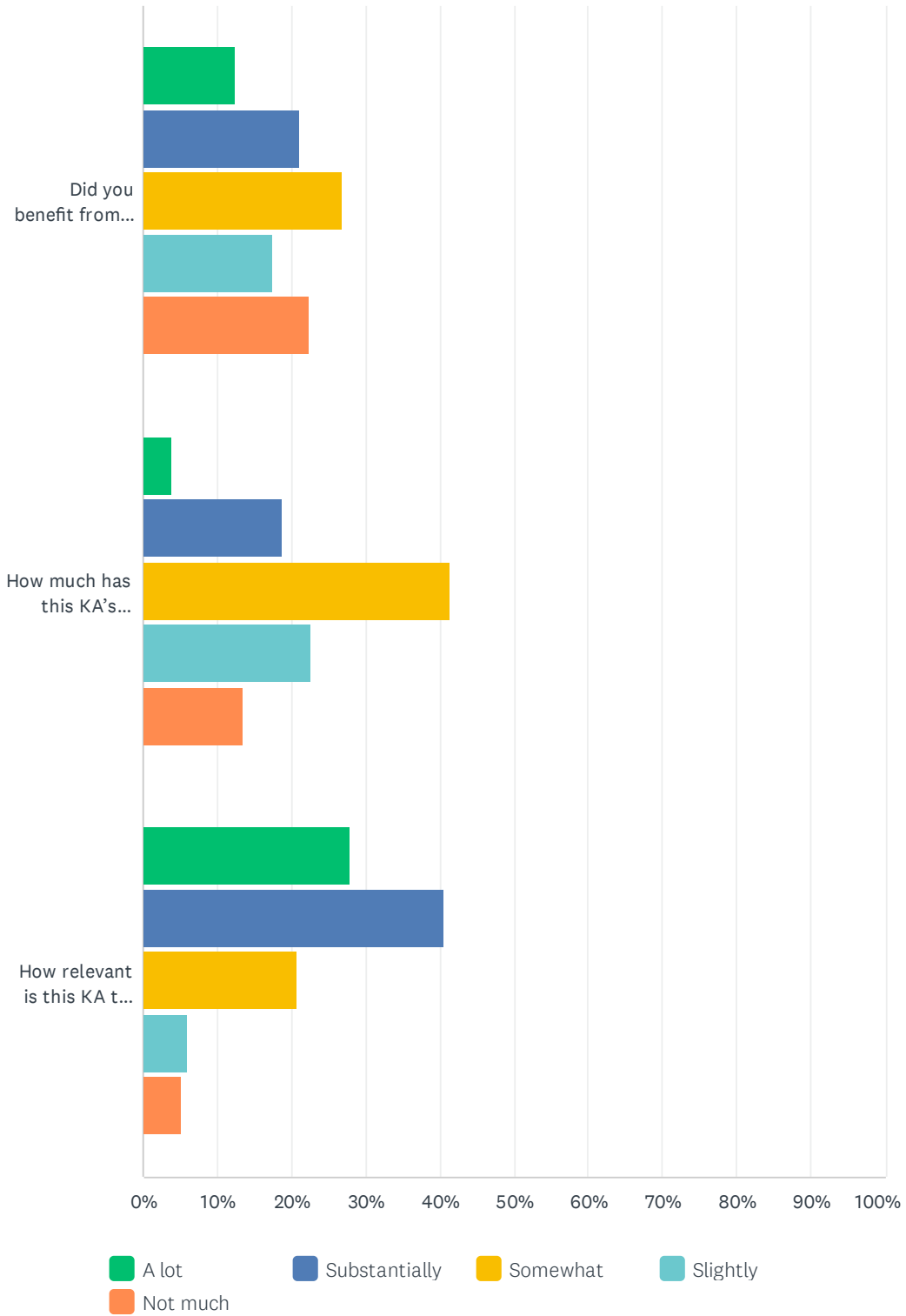


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	10.22% 14	13.87% 19	30.66% 42	14.60% 20	30.66% 42	137
How much has this KA's content changed since 2013?	8.59% 11	26.56% 34	43.75% 56	7.03% 9	14.06% 18	128
How relevant is this KA to CS today?	21.54% 28	40.00% 52	25.38% 33	3.08% 4	10.00% 13	130

Q36 Programming Languages (PL)

Answered: 141 Skipped: 71

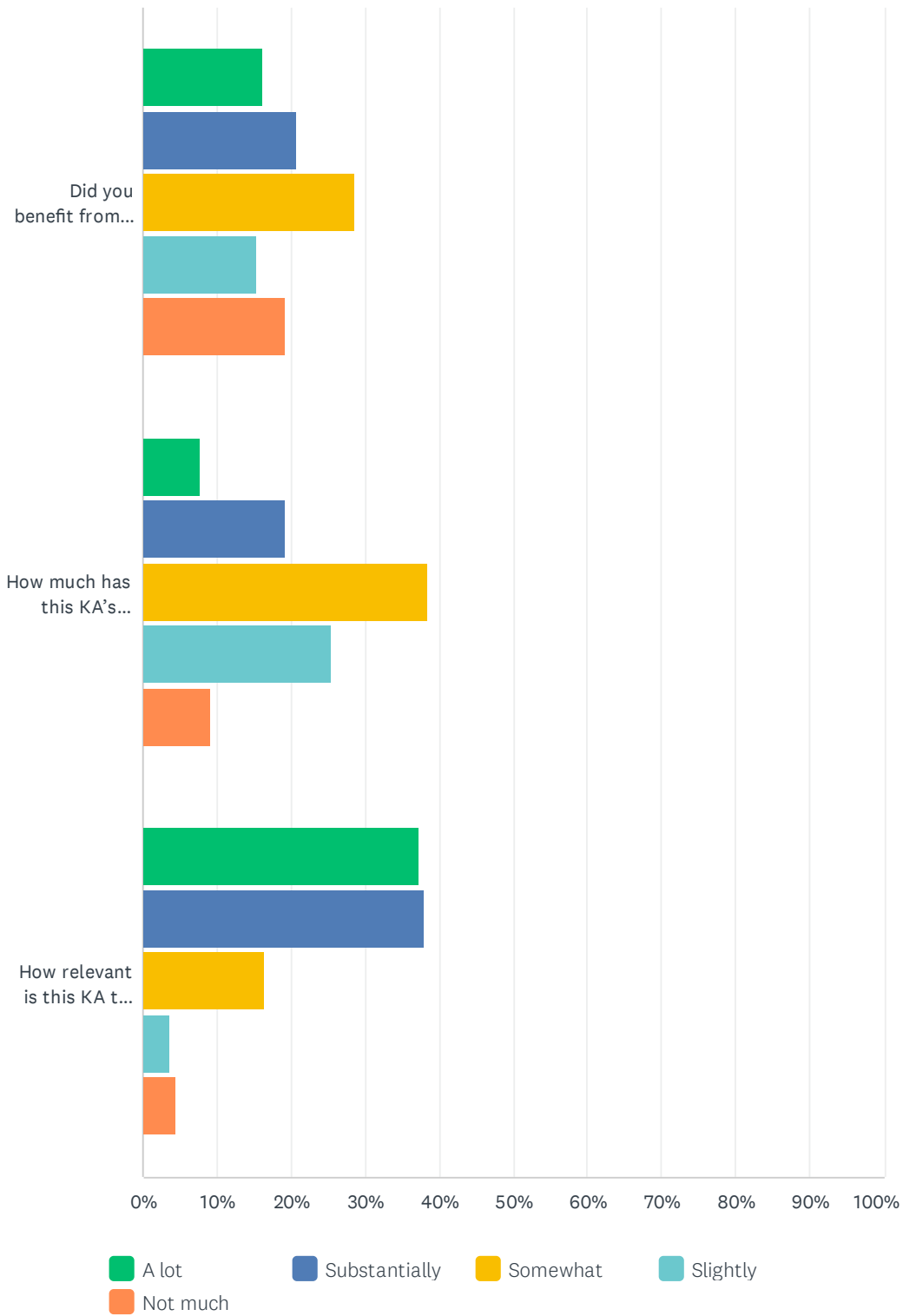


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	12.32% 17	21.01% 29	26.81% 37	17.39% 24	22.46% 31	138
How much has this KA's content changed since 2013?	3.76% 5	18.80% 25	41.35% 55	22.56% 30	13.53% 18	133
How relevant is this KA to CS today?	27.94% 38	40.44% 55	20.59% 28	5.88% 8	5.15% 7	136

Q37 Software Development Fundamentals (SDF)

Answered: 139 Skipped: 73

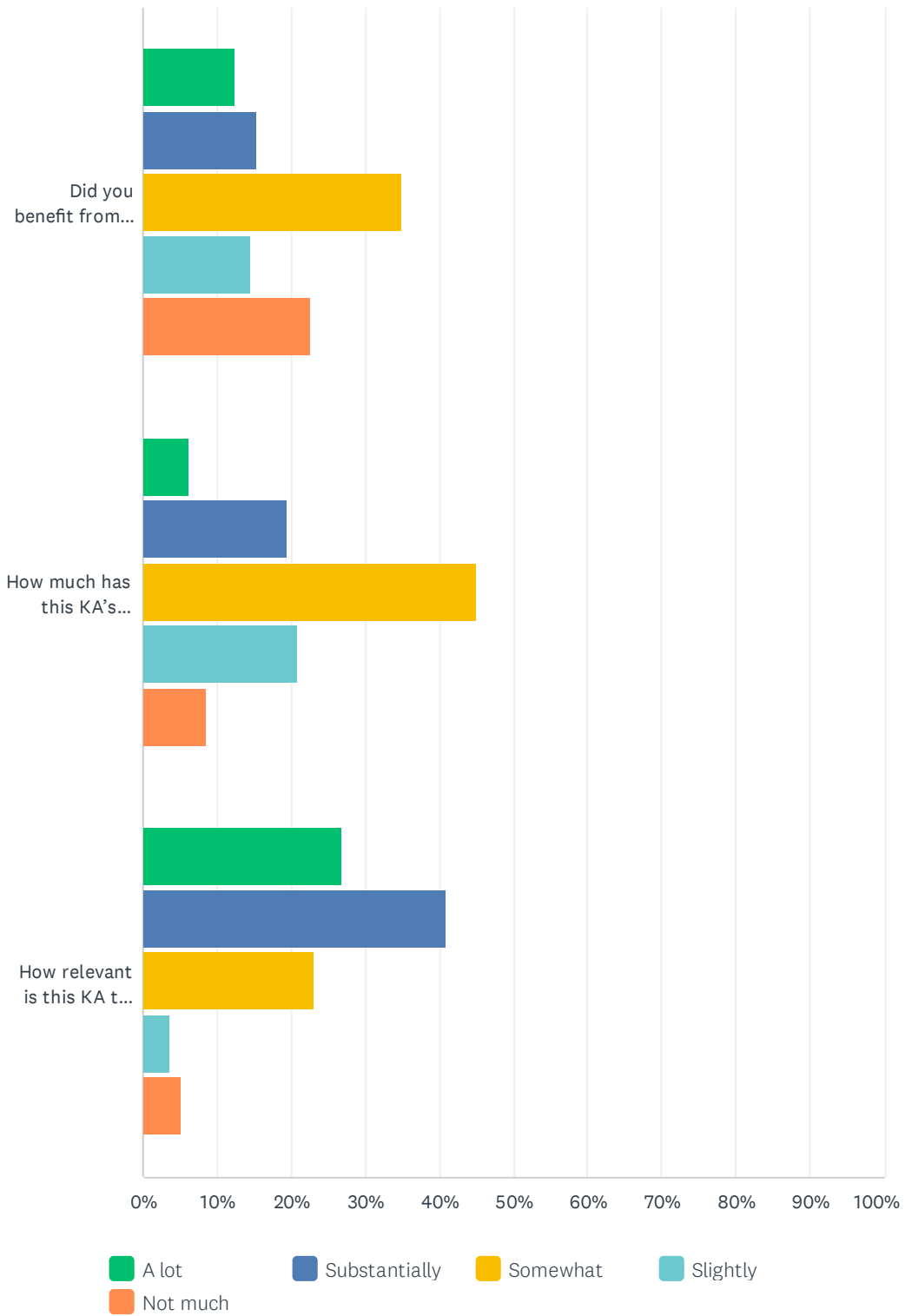


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	16.18% 22	20.59% 28	28.68% 39	15.44% 21	19.12% 26	136
How much has this KA's content changed since 2013?	7.69% 10	19.23% 25	38.46% 50	25.38% 33	9.23% 12	130
How relevant is this KA to CS today?	37.31% 50	38.06% 51	16.42% 22	3.73% 5	4.48% 6	134

Q38 Software Engineering (SE)

Answered: 139 Skipped: 73

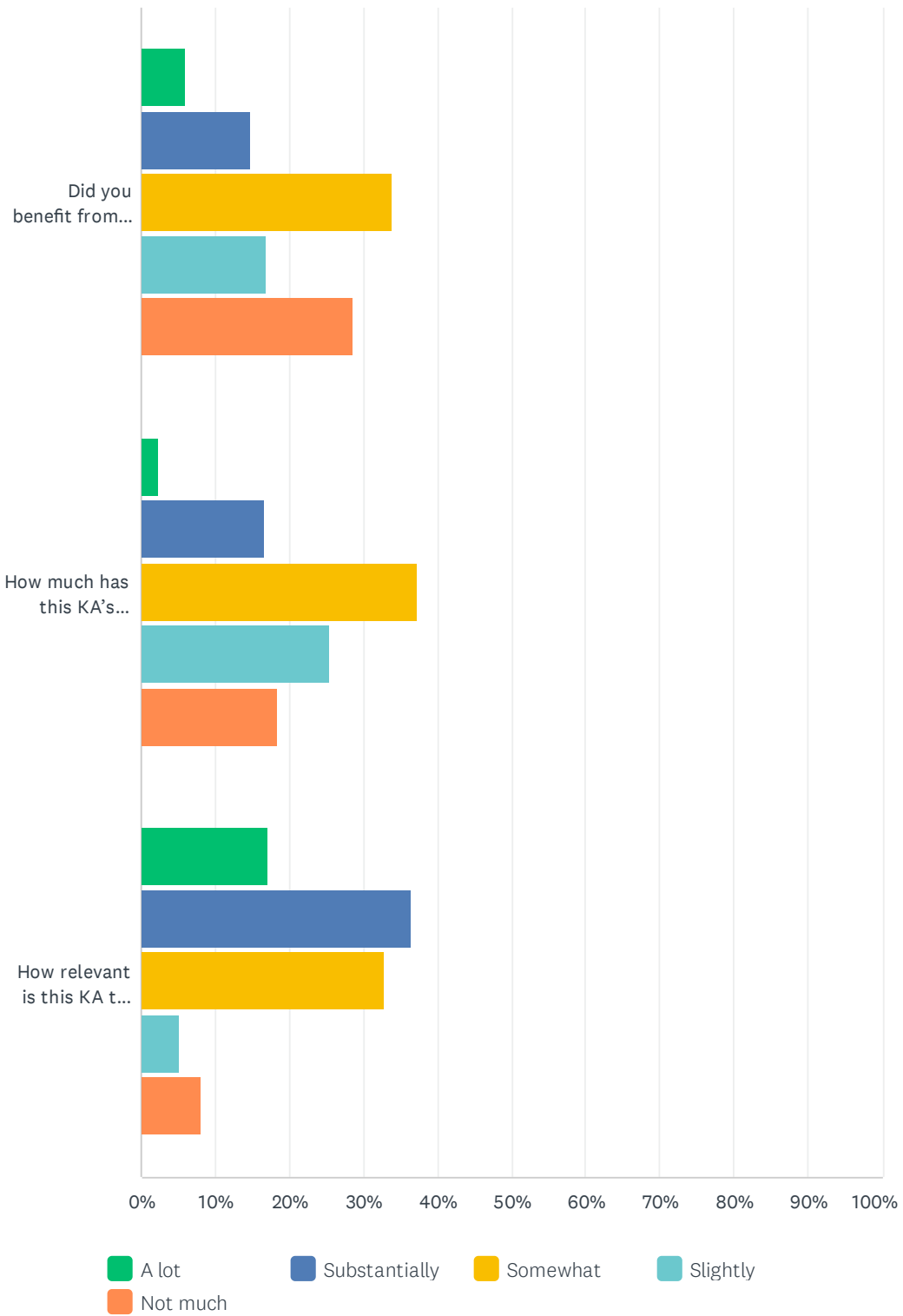


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	12.41% 17	15.33% 21	35.04% 48	14.60% 20	22.63% 31	137
How much has this KA's content changed since 2013?	6.20% 8	19.38% 25	44.96% 58	20.93% 27	8.53% 11	129
How relevant is this KA to CS today?	26.87% 36	41.04% 55	23.13% 31	3.73% 5	5.22% 7	134

Q39 Systems Fundamentals (SF)

Answered: 138 Skipped: 74

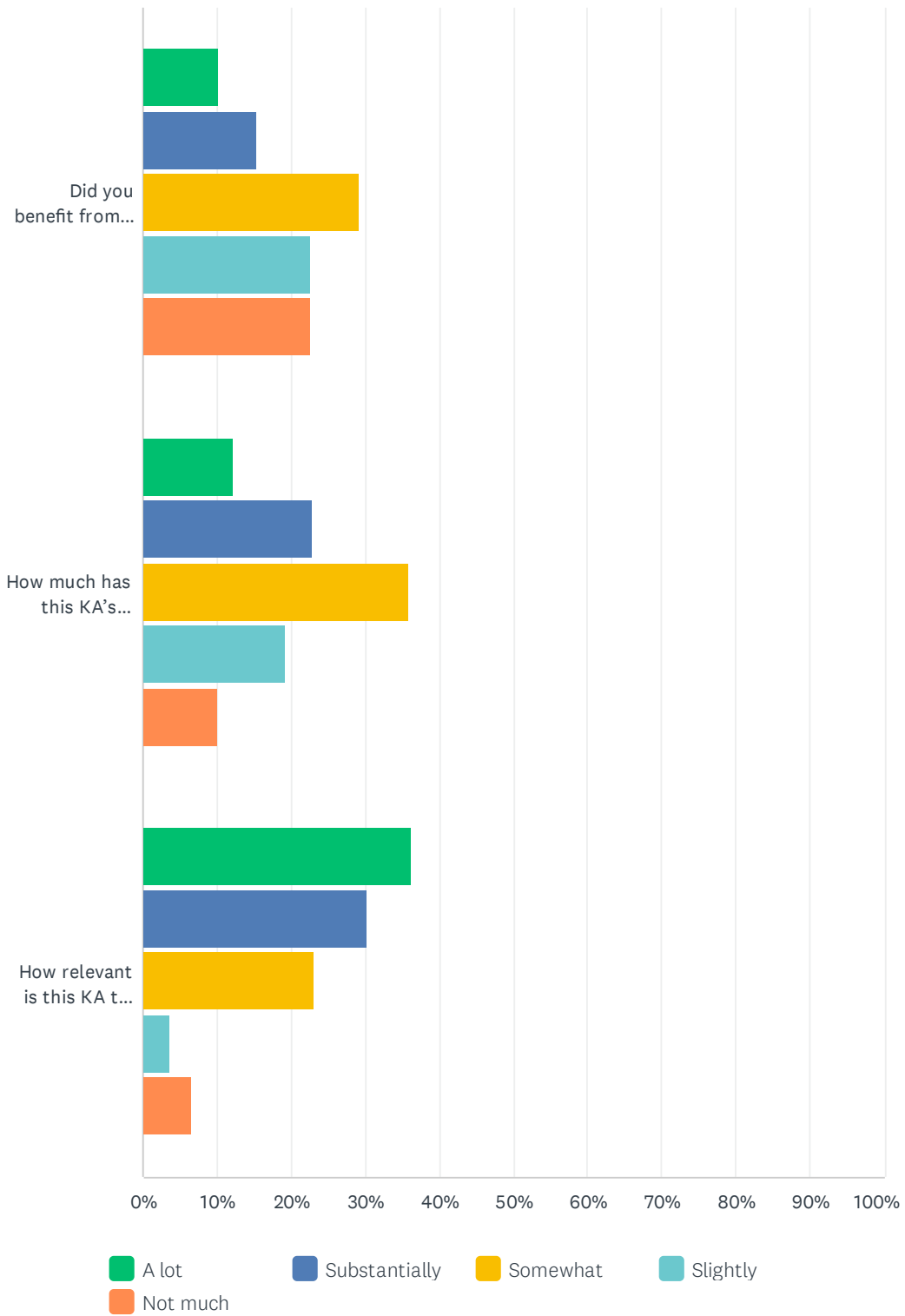


CS202X Survey

	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	5.88% 8	14.71% 20	33.82% 46	16.91% 23	28.68% 39	136
How much has this KA's content changed since 2013?	2.38% 3	16.67% 21	37.30% 47	25.40% 32	18.25% 23	126
How relevant is this KA to CS today?	17.16% 23	36.57% 49	32.84% 44	5.22% 7	8.21% 11	134

Q40 Social and Professional Practice (SP)

Answered: 139 Skipped: 73



CS202X Survey

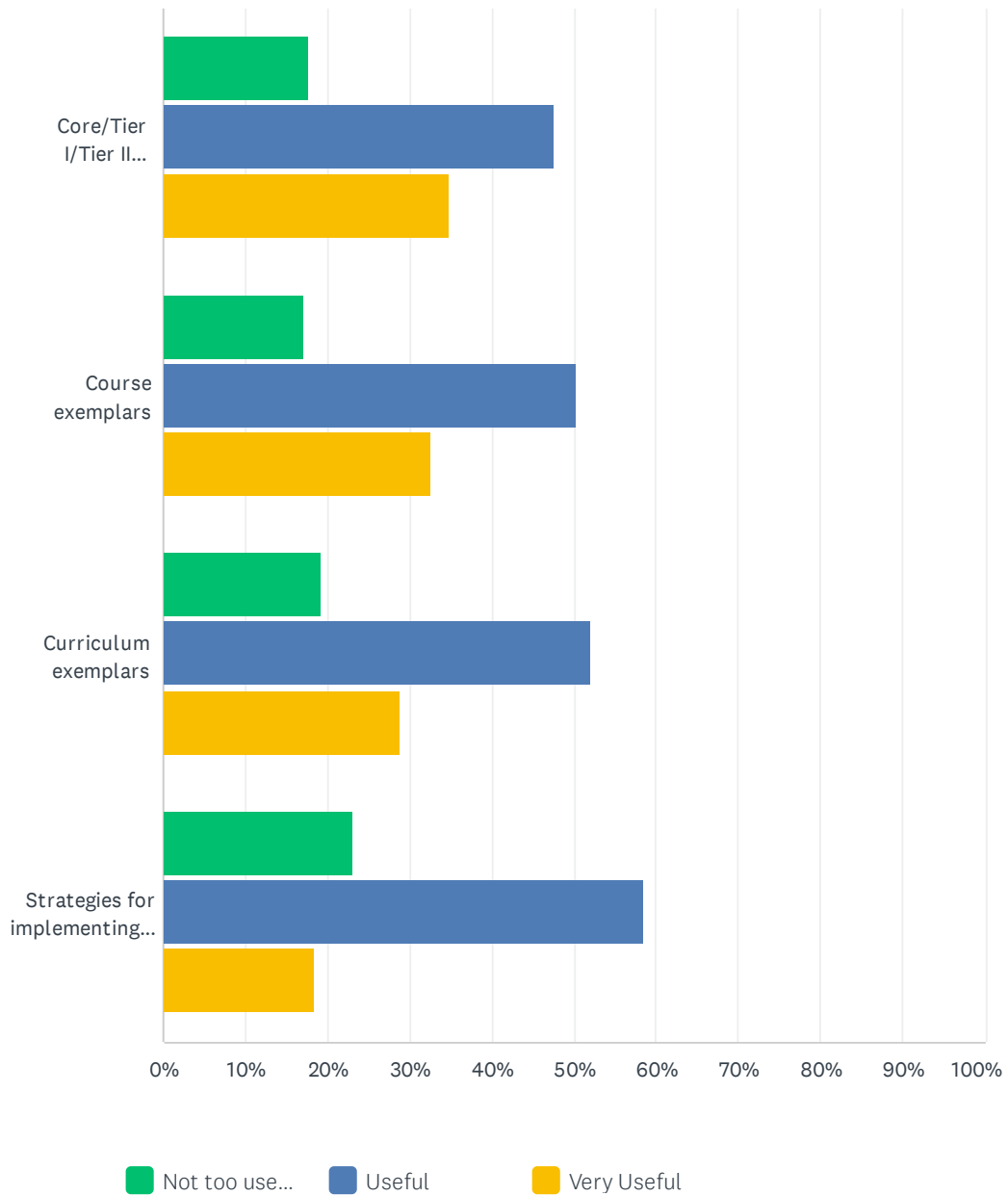
	A LOT	SUBSTANTIALLY	SOMEWHAT	SLIGHTLY	NOT MUCH	TOTAL
Did you benefit from this KA's guidelines?	10.22% 14	15.33% 21	29.20% 40	22.63% 31	22.63% 31	137
How much has this KA's content changed since 2013?	12.21% 16	22.90% 30	35.88% 47	19.08% 25	9.92% 13	131
How relevant is this KA to CS today?	36.30% 49	30.37% 41	22.96% 31	3.70% 5	6.67% 9	135

Q41 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: 30 Skipped: 182

Q42 How useful were the following aspects of CS2013?

Answered: 147 Skipped: 65

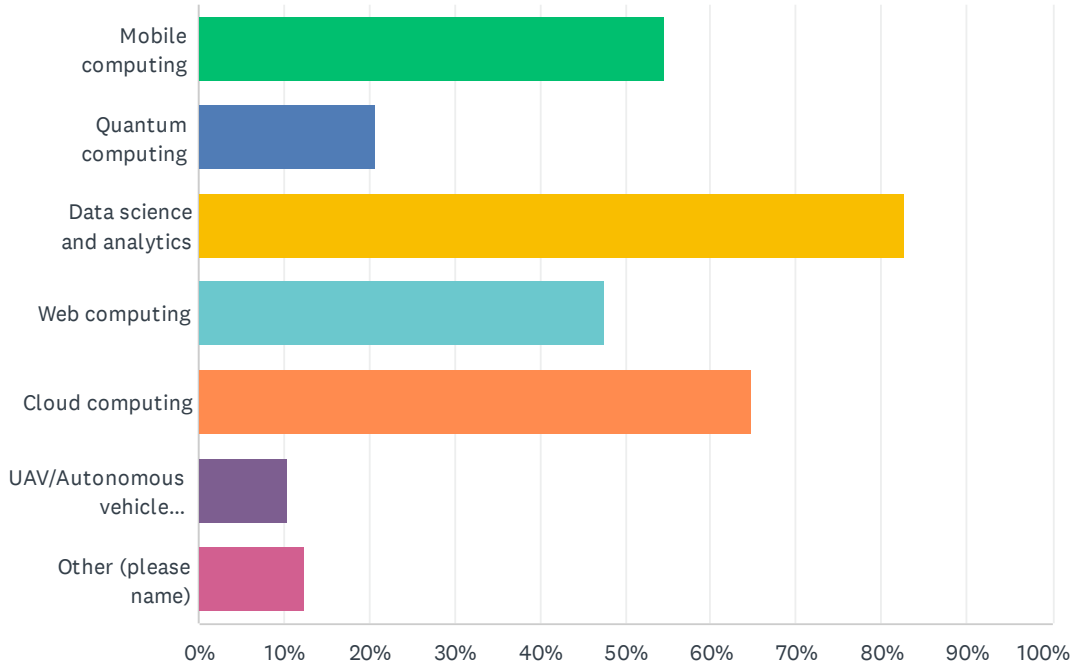


CS202X Survey

	NOT TOO USEFUL	USEFUL	VERY USEFUL	TOTAL	WEIGHTED AVERAGE
Core/Tier I/Tier II categorization of Knowledge Units	17.69% 26	47.62% 70	34.69% 51	147	2.17
Course exemplars	17.01% 25	50.34% 74	32.65% 48	147	2.16
Curriculum exemplars	19.18% 28	52.05% 76	28.77% 42	146	2.10
Strategies for implementing the curriculum	23.13% 34	58.50% 86	18.37% 27	147	1.95

Q43 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: 145 Skipped: 67



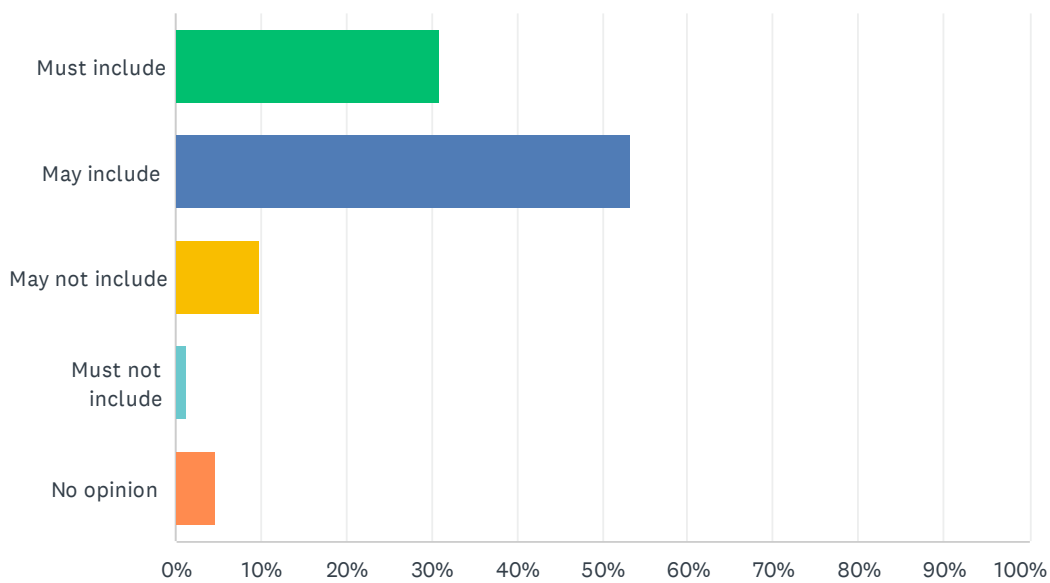
ANSWER CHOICES	RESPONSES	
Mobile computing	54.48%	79
Quantum computing	20.69%	30
Data science and analytics	82.76%	120
Web computing	47.59%	69
Cloud computing	64.83%	94
UAV/Autonomous vehicle programming	10.34%	15
Other (please name)	12.41%	18
Total Respondents: 145		

Q44 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: 54 Skipped: 158

Q45 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: 152 Skipped: 60



ANSWER CHOICES	RESPONSES
Must include	30.92% 47
May include	53.29% 81
May not include	9.87% 15
Must not include	1.32% 2
No opinion	4.61% 7
TOTAL	152

Q46 Please provide any other comments and suggestions for the CS202X task force.

Answered: 33 Skipped: 179