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Information Literacy Needs of Engineering Grad Students

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Information Literacy Needs of Engineering Grad Students

————→ **SURVEY RESULTS**

YOUR ENGINEERING LIBRARIANS:

Leena Lalwani, Paul Grochowski, Jamie Niehof



WHY CONDUCT THIS SURVEY?

- How are we currently covering Information Literacy?
 - Mostly departmental orientations
 - One-off seminar classes
- What will we learn from the survey?
 - Information about student knowledge
 - Discover student needs
 - Information on what resources we will need to satisfy this demand



SURVEY LOGISTICS

- Survey Dates: November 6th - 28th, 2017
- Email sent to departmental graduate student groups
- 392 responses / 3,637 CoE graduate student enrollment (10.7% response rate)
- CoE graduate population is 27% of total UM graduate population
(CoE = 3,637 / UM = 13,415)
- Link to the survey questions: [goo . gl / cMnMFd](https://goo.gl/cMnMFd)

MASTERS VS. PHD

% response

Masters

150

7.6%

PhD

242

14.9%

0 20 40 60 80 100 120 140 160 180 200 220 240 260

Number of Responses



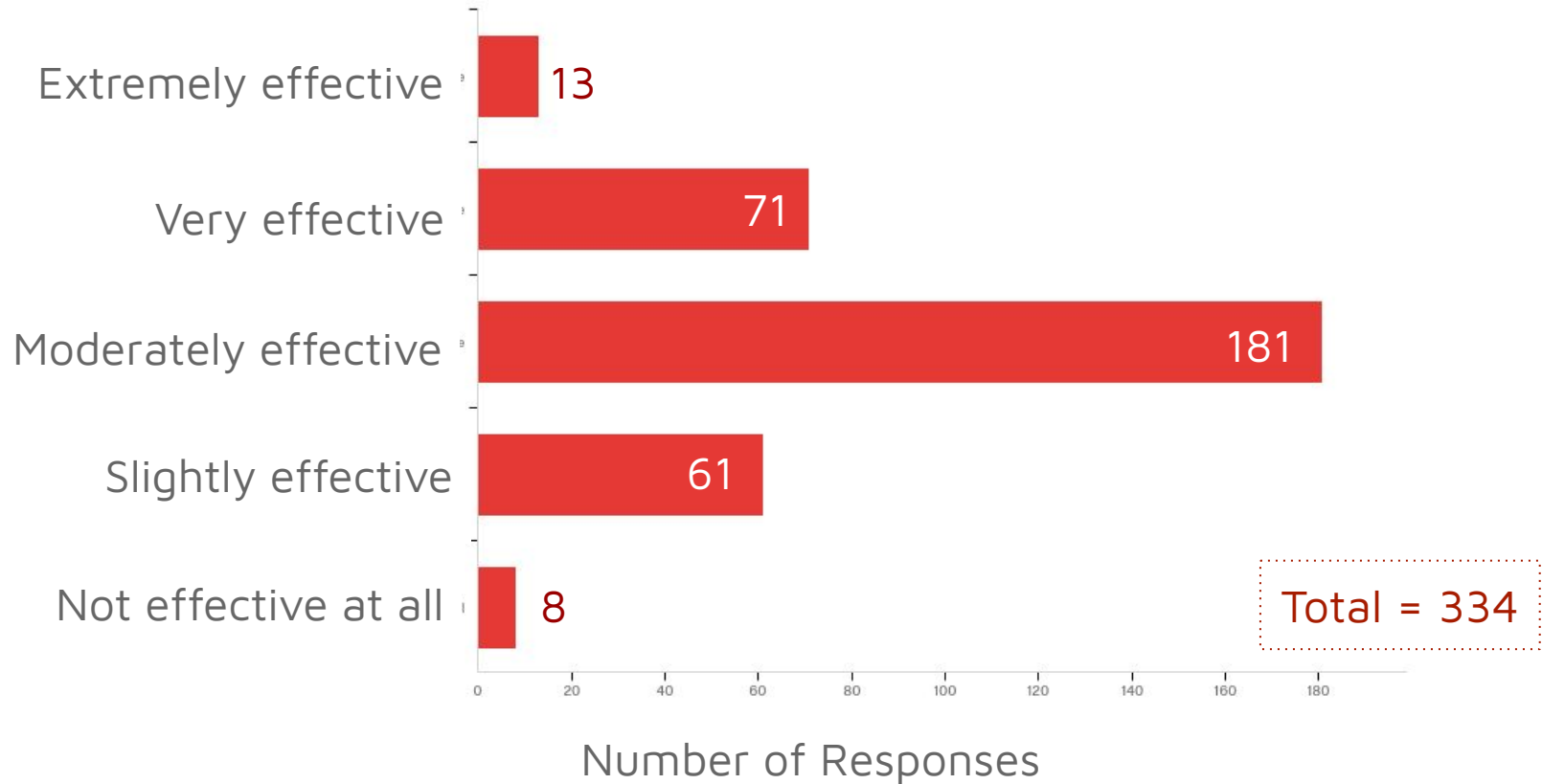


DEPARTMENT BREAKDOWN

| | |
|-------------------------------------|----|
| Electrical Eng + Computer Science | 82 |
| Mechanical Engineering | 68 |
| Civil + Environmental Engineering | 38 |
| Aerospace Engineering | 32 |
| Materials Science + Engineering | 32 |
| Industrial + Operations Engineering | 29 |
| Biomedical Engineering | 26 |

| | |
|---|----|
| Chemical Engineering | 26 |
| Integrative Systems + Design | 24 |
| Climate + Space Sciences Engineering | 15 |
| Nuclear Eng + Radiological Sciences | 14 |
| Naval Architecture + Marine Engineering | 3 |
| Interdisciplinary Graduate Programs | 3 |

How effective are you at literature reviews?





What databases do you search?

Google Scholar — 305

Web of Science — 99

Scopus — 61

PubMed — 49

Other — 46

Eng Village INSPEC — 13

Eng Village Compendex — 13

OTHER:

“whatever lib.umich.edu offers”

IEEEExplore

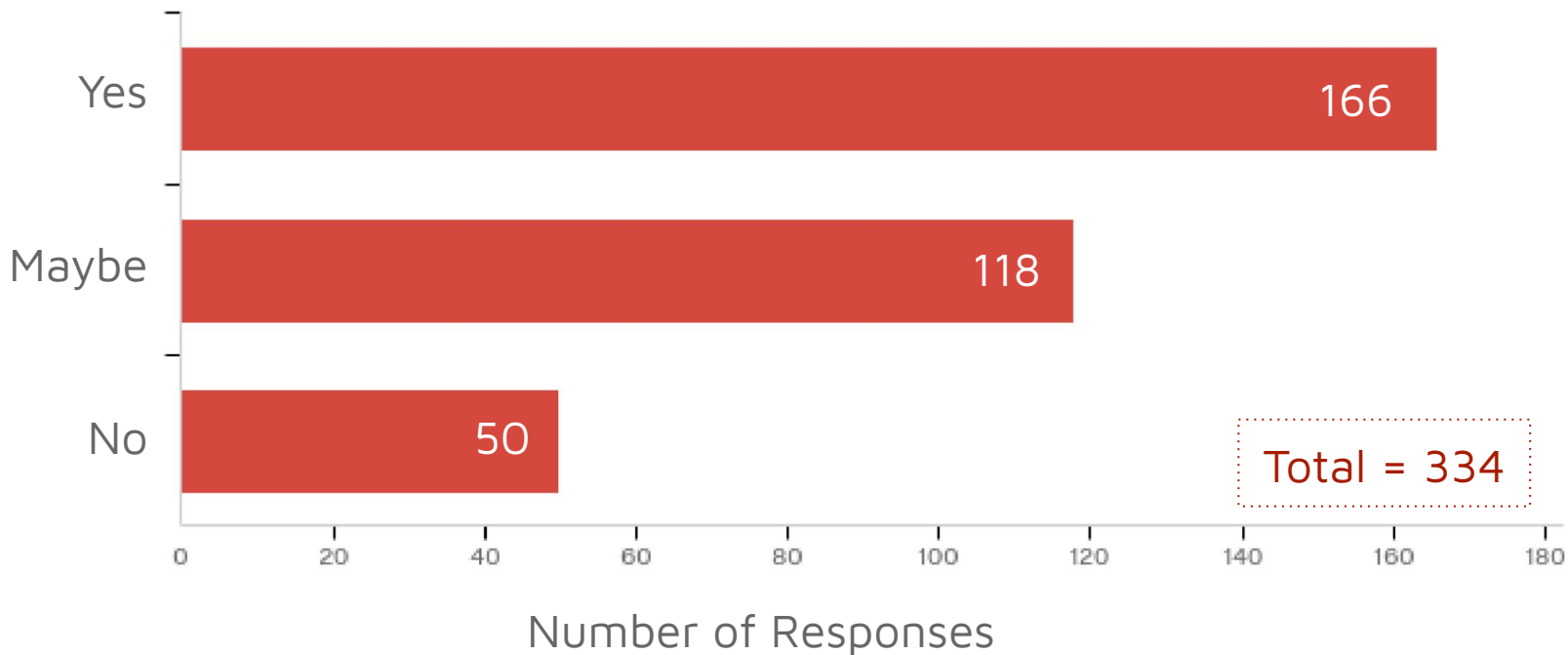
ACM Digital Library

MIRLYN (library’s online catalog)

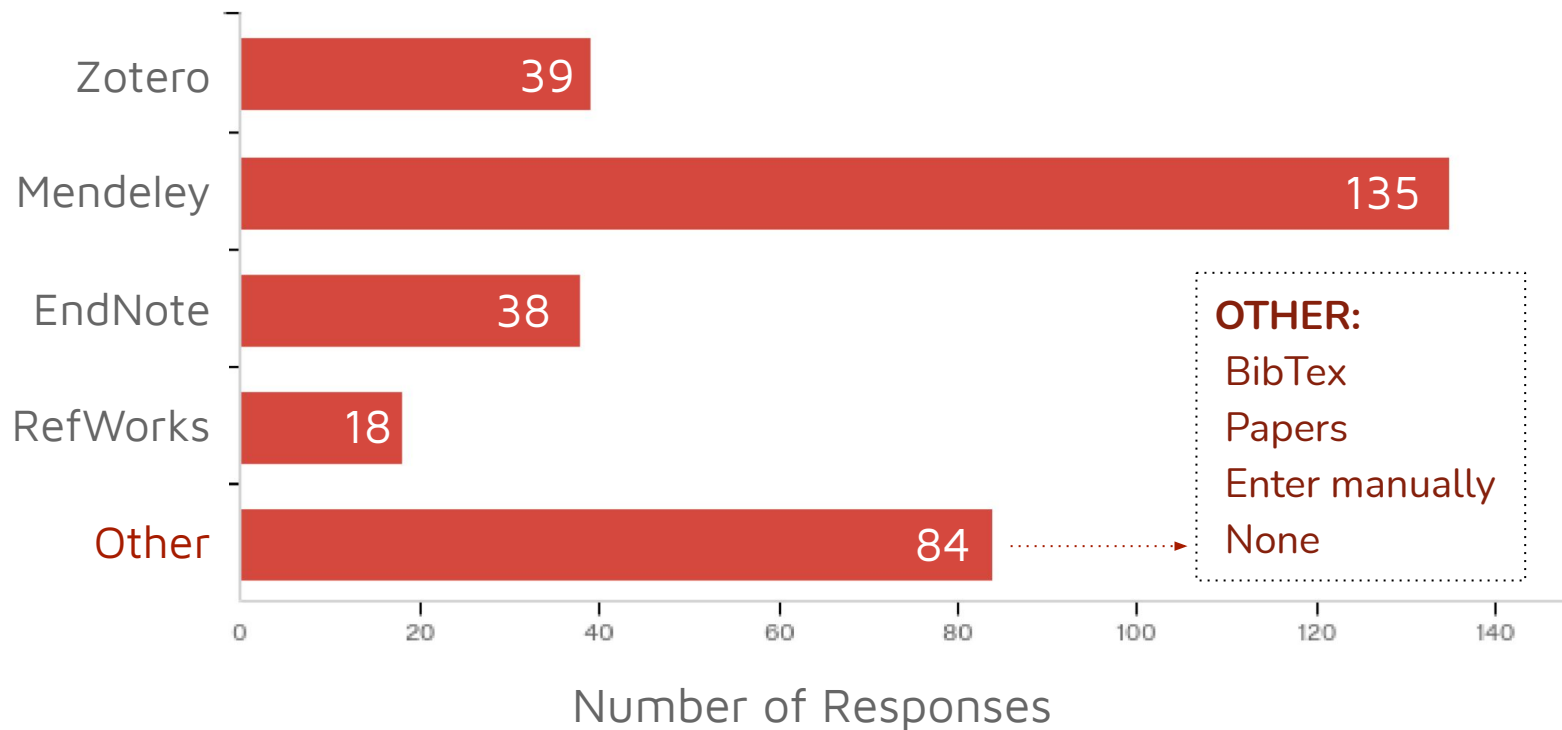
ScienceDirect

Summon

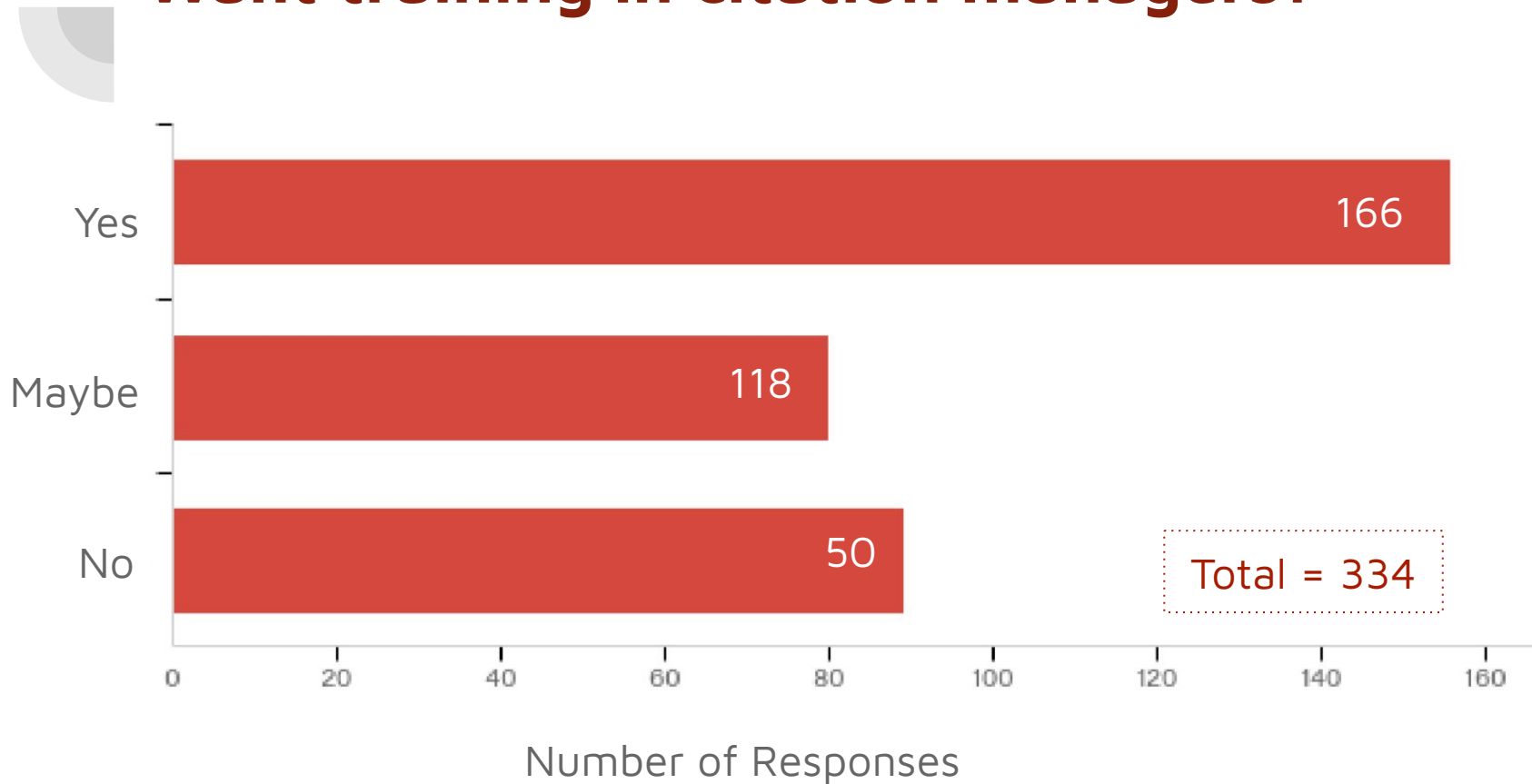
Want training in searching for literature?



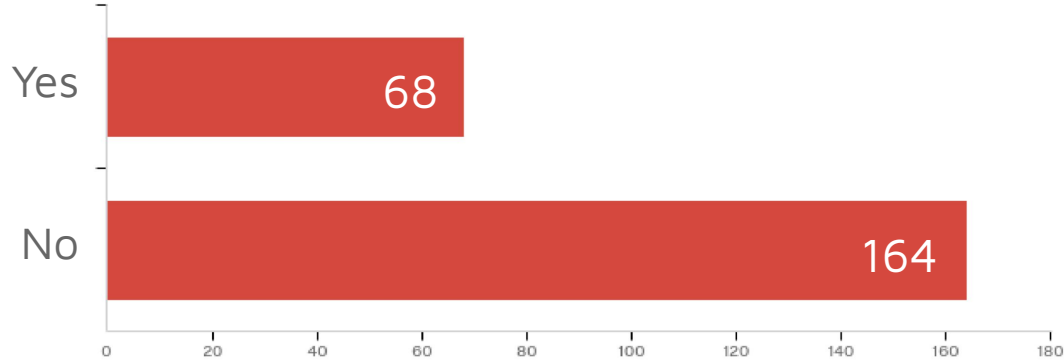
What do you use for citation management?



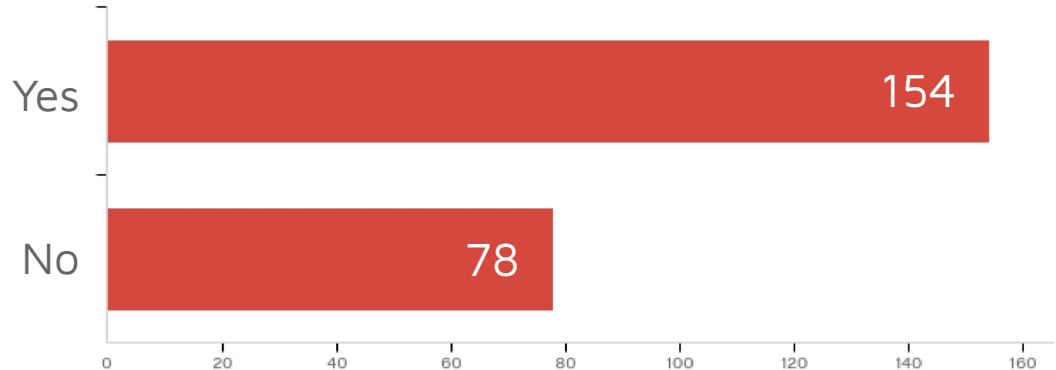
Want training in citation managers?



Need to find funding for your research?

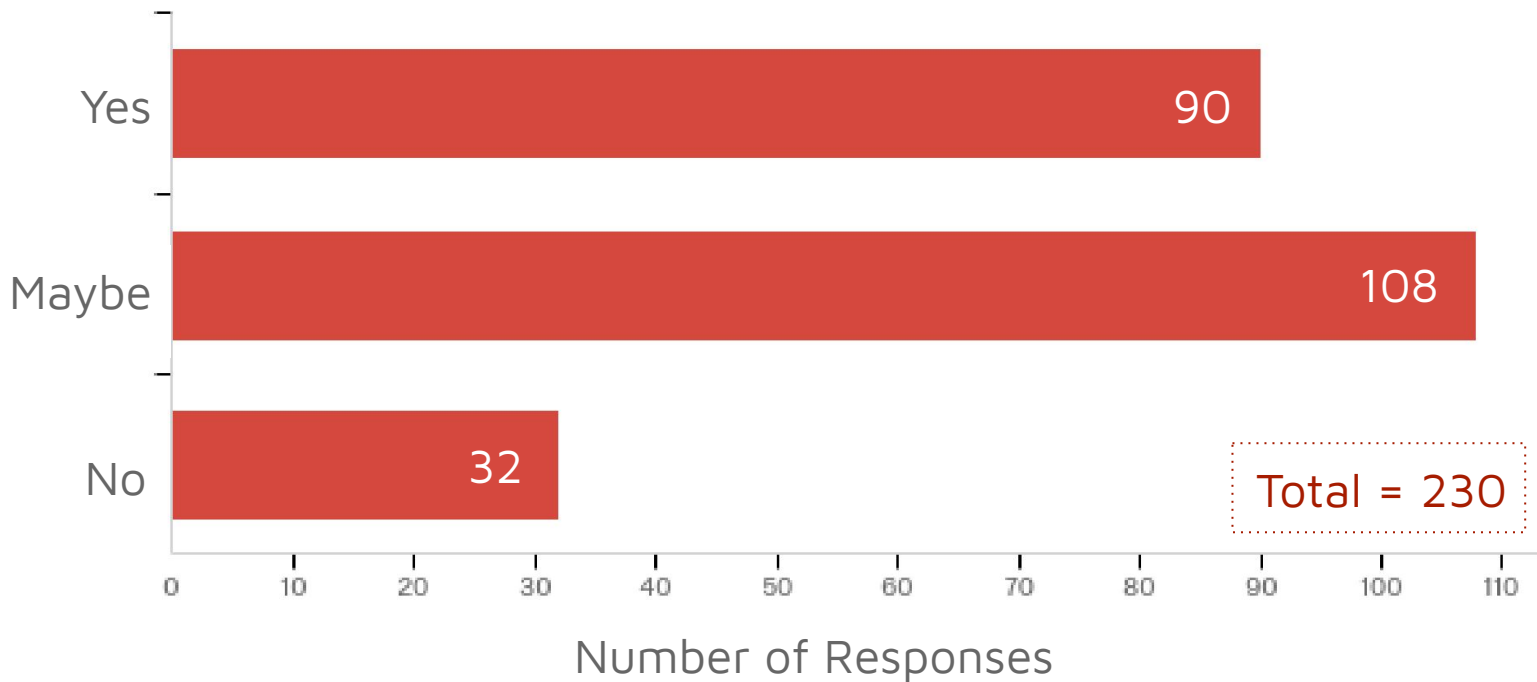


Want training in finding funding?



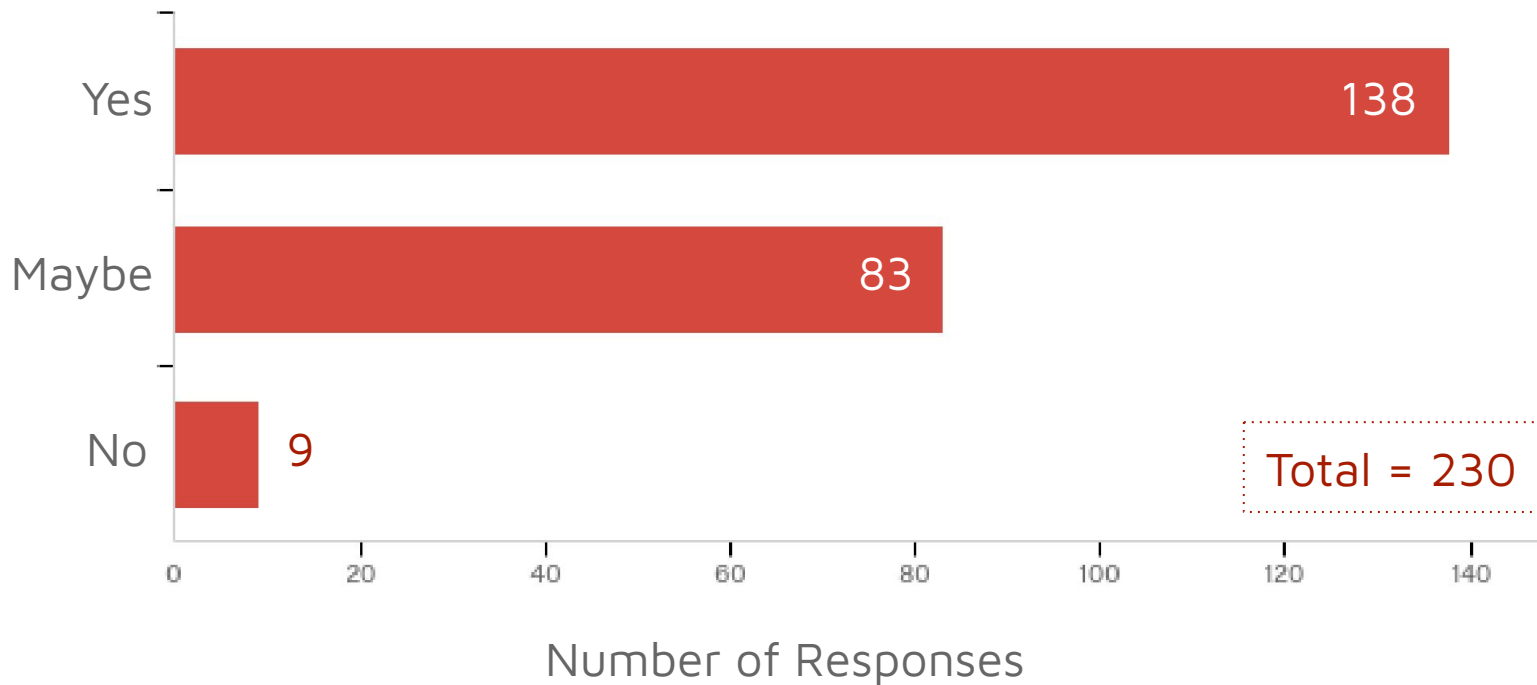



Confident your research data is saved appropriately?



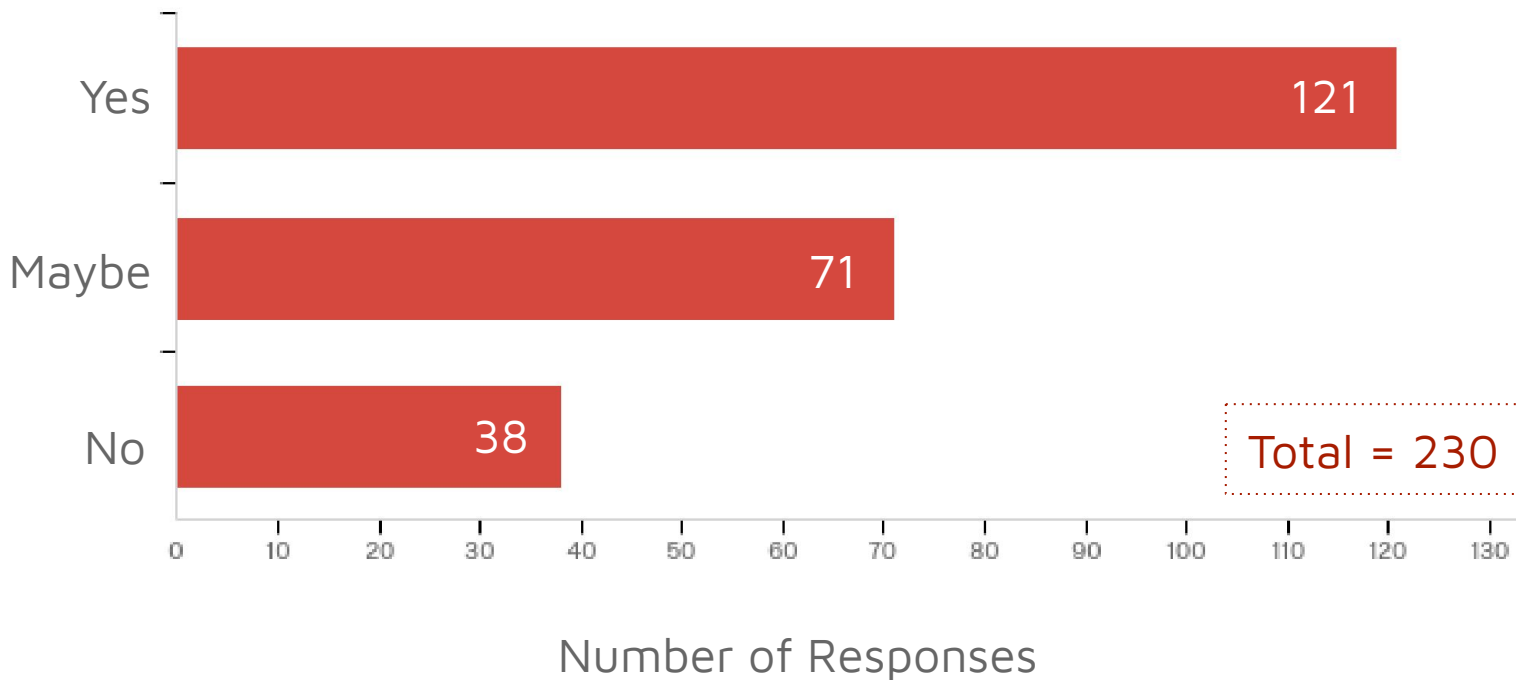


Confident you can analyze your data effectively?

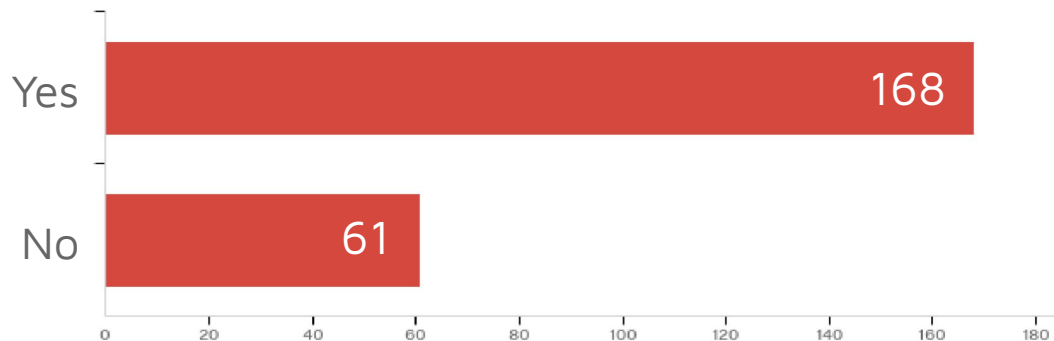




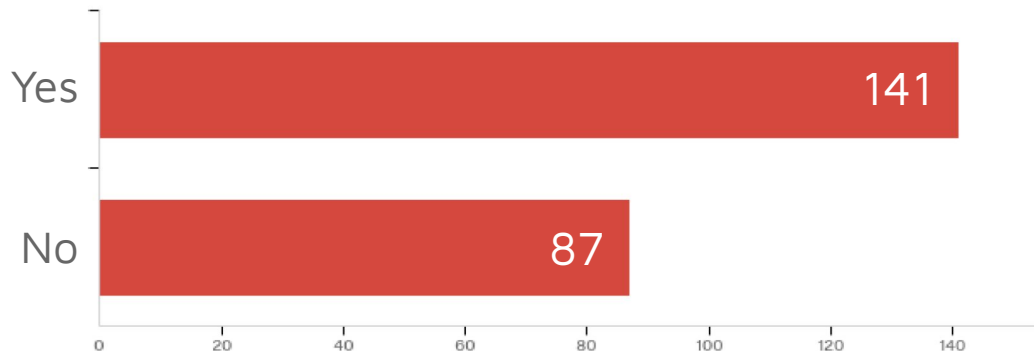
Want training on how to comply with grant regulations pertaining to data?



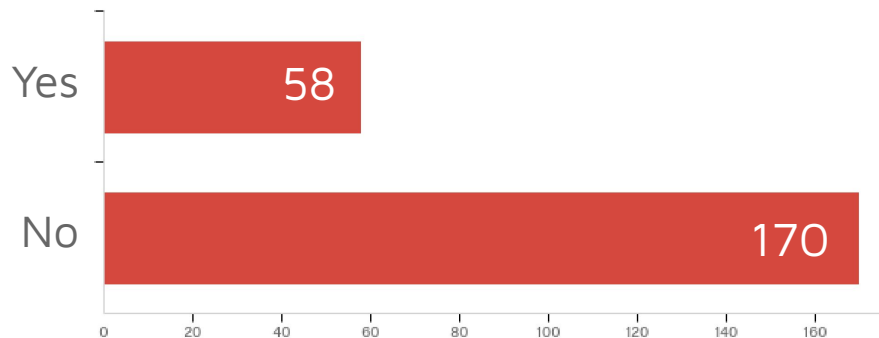
Aware of best journals to publish in?



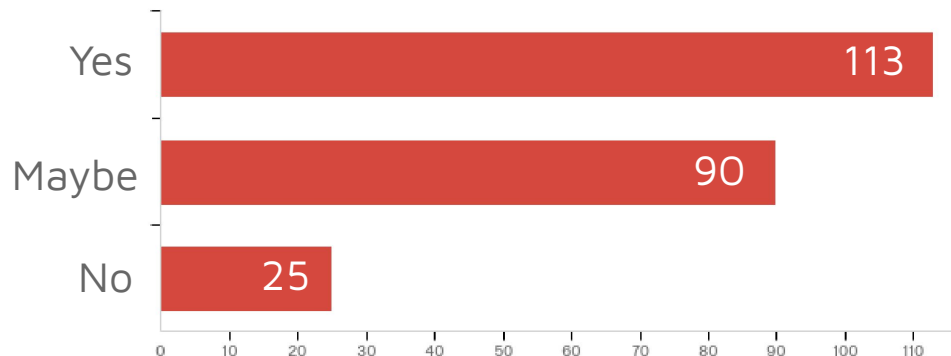
Want training in finding journals?



Aware you can negotiate copyright license when publishing?



**Want training
in negotiating
copyright?**





Describe research needs not being met

- Access to Articles — 3
- Finding Funding — 2
- Data Management — 3
- Return the Engineering Books to the Duderstadt Center — 5



Describe research needs not being met

- “Research in fields that I have little or no expertise: how to quickly find the background information I need.”
- “Effective way to store data in a single location.”
- “Finding OLD articles, ie pre-internet. Some journals I need are not online.”
- “Training on how to get out of the research game.”



Describe research needs not being met

Find a complete list of write-in responses here:

goo.gl/gjj8Ai



NEXT STEPS

- Two focus groups with CoE graduate students
- Share our survey and focus group results with the College of Engineering (CoE) Associate Dean for Graduate Education
- Plan a series of workshops to address student needs
- Present survey and focus group results at 2018 ASEE Annual Conference

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Questions?

You have 3 minutes.