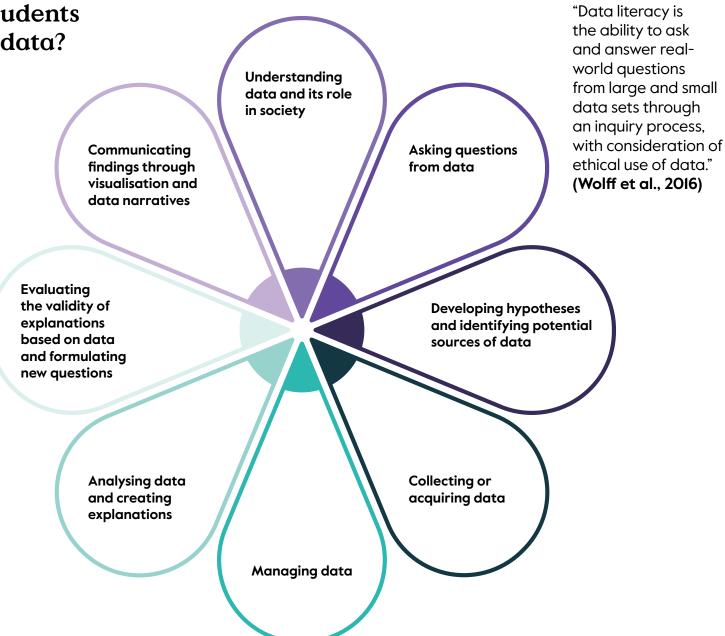
What competencies do students need when working with data?

- Understanding data
- Understanding the role and impact of data in society in different contexts
- Understanding and following data ethics
- Identifying problems or questions that can be solved with data
- Developing hypotheses
- Identifying useful data
- Collecting or acquiring data
- Evaluating and critiquing data
- Organising data
- Creating and using metadata
- Managing data curation, security, and re-use
- Sharing data
- Preserving data
- Preparing data for analysis
- Using data tools
- Conducting basic data analysis
- Interpreting information derived from data
- · Critiquing presented interpretations of data
- Engaging in data driven decision
 making (DDDM)
- Formulating new questions based on findings
- Synthesising and visualising data
- Communicating results orally and in writing
- Creating and telling data stories
- Citing data



Calzada Prado, J. & Marzal, M. A. (2013). Incorporating data literacy into information literacy programs: Core competencies and contents. Libri, 63, 2, 123-134. Ridsdale, C., Rothwell, J., Smit, M., Ali-Hassan, H., Bliemel, M., Irvine, D., Kelley, D., Matwin, S., & Wuetherick, B. (2015). Strategies and Best Practices for Data Literacy Education: Knowledge Synthesis Report. Wolff, A., Gooch, D., Cavero Montaner, J. J., Rashid, U., & Kortuem, G. (2016). Creating an understanding of data literacy for a data-driven society. The Journal of Community Informatics, 12, 3, 9-26.