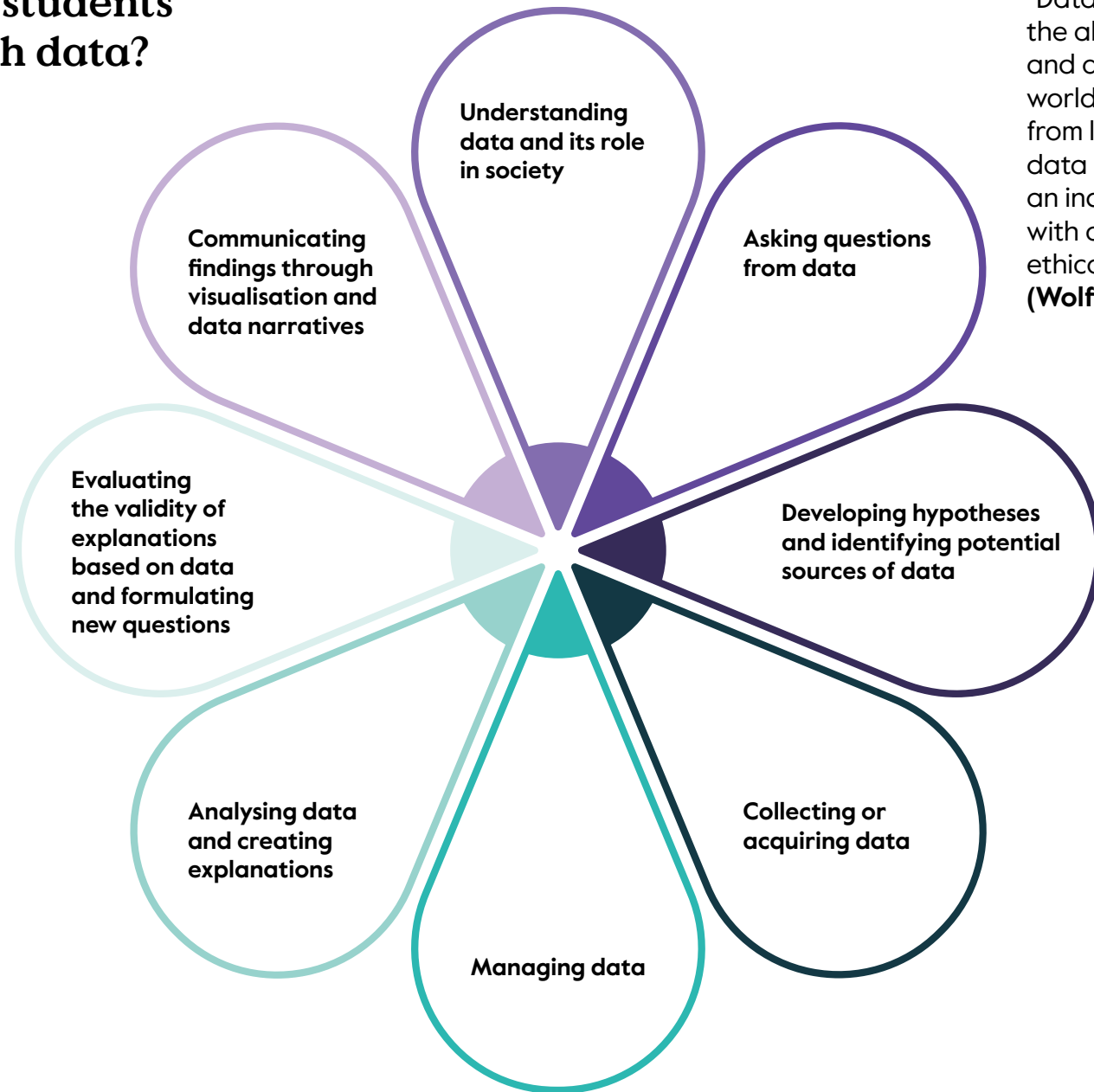


# What competencies do students need when working with data?

- 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



“Data literacy is the ability to ask and answer real-world questions from large and small data sets through an inquiry process, with consideration of ethical use of data.”  
(Wolff et al., 2016)