# INFS 5116 Data Visualisation







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- **Course structure**
- Weekly topics with online study materials
  - Directed self-study
- Online class meetings via ZOOM
  - Scheduled for Weeks 1, 4, 7, 10 and 13
  - Discussion plus some practical work as relevant to course topics, assessment Q&A
- Open consultation by appointment





- Data visualisation is a broad, multidisciplinary field
- Explore concepts, theory and (some) tools for data visualisation
  - Technology around data visualisations characterised by flux
  - R, Tableau and D3
- Challenge, enlighten, equip and inspire
- Requires on-going effort to learn, apply, reflect and develop







#### **Continuous**

- Practical exercises
  - "See then do"
- Due in Weeks 3, 6, 10 and 13
- In-class quizzes (in workshop)

#### **Assignment**

- Tell a story using graphics
- Part 1: Visualisation project plan due in Week 8
- Part 2: Visualisation project report due at the end of the exam period

Students must submit all continuous assessment tasks in order to pass the course.





## A world of possibilities... www.data-to-viz.com



### **Data visualisation**

What does it mean to you?

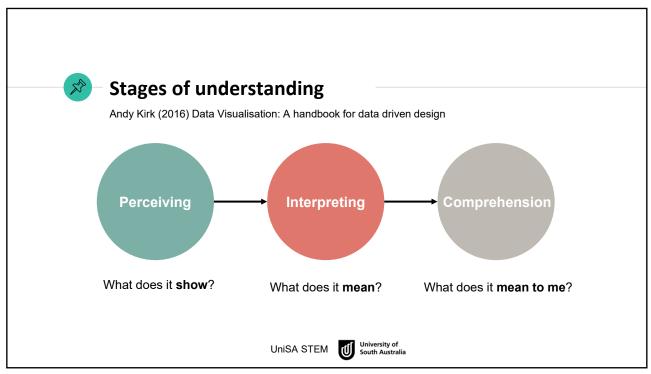
An important distinction...

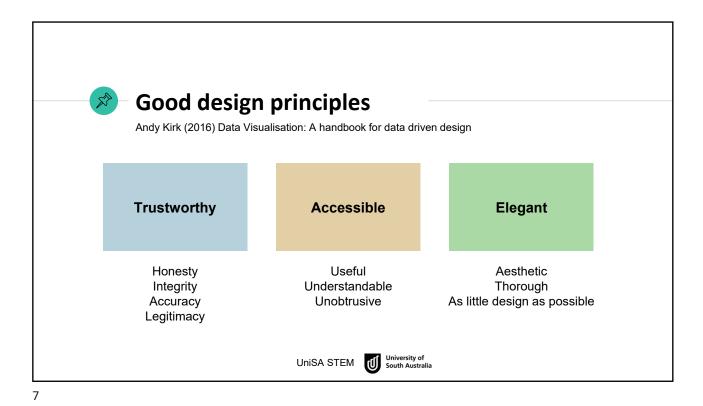
- Visualisations which are useful for analysis
- **(M)**
- Visualisations which are useful for communication

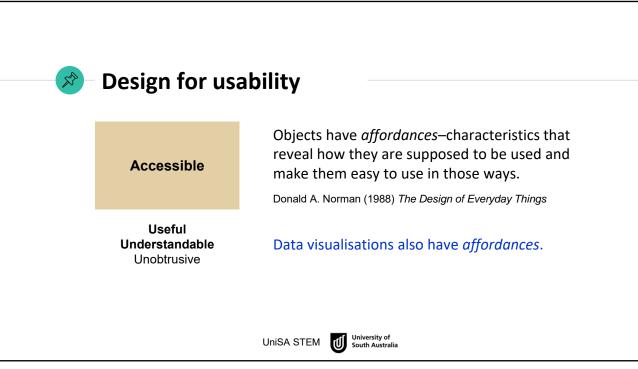


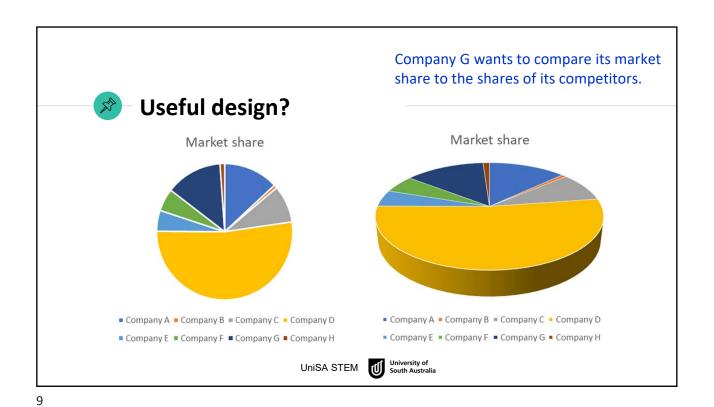


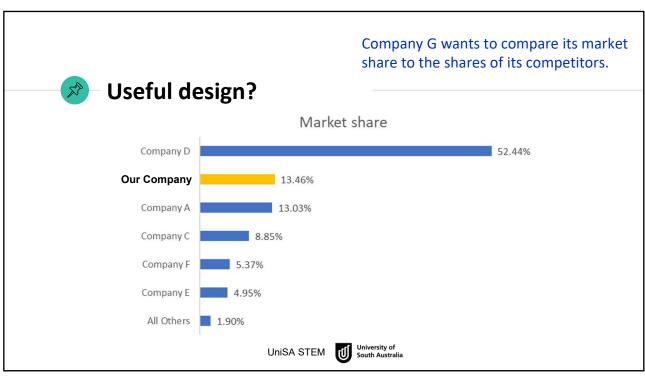
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# **Graphical excellence**

Complex ideas communicated with clarity, precision and efficiency

- Show the data
- Encourage substance
- Avoid data distortion
- Make large data sets coherent
- Encourage comparison

- Several levels of detail
- Clear purpose
- Closely integrated with statistical and verbal descriptions

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