

# Make better data-based decisions with statistical modelling techniques

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## Homework

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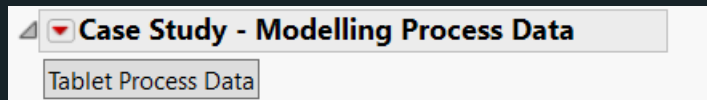
Day 2



# Homework – Day 2

## Explore your data

- If you haven't already, go to [jmp.com/trial](https://jmp.com/trial)
- Download your 30 days free trial of JMP
- Install and Open JMP
- Open the Day 2 Homework Journal:
  - File – Open – “Day 2 - Process data models.jrn”
  - Open the “Tablet Process Data” by clicking the button in the Journal



# Data Exploration

- Explore the responses of our process(Lot Acceptance & Dissolution)
  - Open the distribution platform (Analyze -> Distribution)
  - Select Lot Acceptance & Dissolution and click on *Y, Columns*
  - Click *OK*
  - Explore the relationship between these responses by selecting bars from the distributions. What do you observe?
- Explore the relationships between the factors and responses for our process
  - Open the distribution platform (Analyze -> Distribution)
  - Select all columns except API Lot No click on *Y, Columns*
  - Click *OK*
  - By selecting bars in the distribution, try and identify relationships between factors and the responses. Can you identify any factors that contribute to failing batches?

# Model the Data

- Graphically validate your findings
  - Open the Graph Builder (Graph-> Graph Builder)
  - Drag **Dissolution** into the Y area
  - Drag **Spray Rate** in the X area
  - Select a line of fit in the top menu



- Repeat the process with **Screen Size** instead of **Spray rate**
  - Identify a better visual as **Screen size** is categorical
- Repeat with any other factors you identified
- What conclusions can you draw?

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