

Data Mining in AutoCAD with Data Extraction

- We'll be starting shortly
- **While you wait:**
 - Open AutoCAD 2018
 - **C:\DATASETS\Ben Rand\AS138244-L** for Weds. lab course files
 - **C:\DATASETS\Ben Rand\AS119389-L** for Thurs. lab course files
 - Open the PDF handout and arrange the PDF and AutoCAD so you can see both
 - Set your screen colors in OPTIONS the way you like them

**Don't forget to fill out your class
survey before you leave AU!**

Data Mining in AutoCAD with Data Extraction

Ben Rand

Director of IT, CAD Manager, Developer
Job Industrial Services, Inc.

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About Me



Lab Objectives

- Create tables and text labels based on drawing data
- Extract data from multiple drawings
- Link Excel spreadsheets with AutoCAD data
- Customize data extraction using sorting, filtering, formulas, and totals
- **Think of some way you can apply what you learned today to YOUR work!**





- CAD drawings are a gold mine of data
 - Objects to be quantified
 - Properties to be collected
 - Attribute data can be extracted
- Leverage this rich data source
 - Link text fields
 - Create table reports
 - Extract to or combine with Excel
- Increase your
 - Productivity
 - Accuracy
 - Efficiency

The background features a blue gradient bar at the bottom, overlaid with a white wireframe mesh pattern that resembles a complex, organic structure. The text is white and positioned on the blue bar.

Exercise #1: Link Text Labels to Object Properties

The background of the slide is a complex, abstract wireframe mesh. The mesh is composed of numerous interconnected lines forming a series of organic, flowing shapes that resemble a stylized, interconnected network or a series of overlapping, curved planes. The lines are thin and grey, set against a white background. A solid blue horizontal bar spans the bottom third of the image, providing a contrasting background for the white text.

Exercise #2: Furniture Report



Exercise #3: Sheet Index

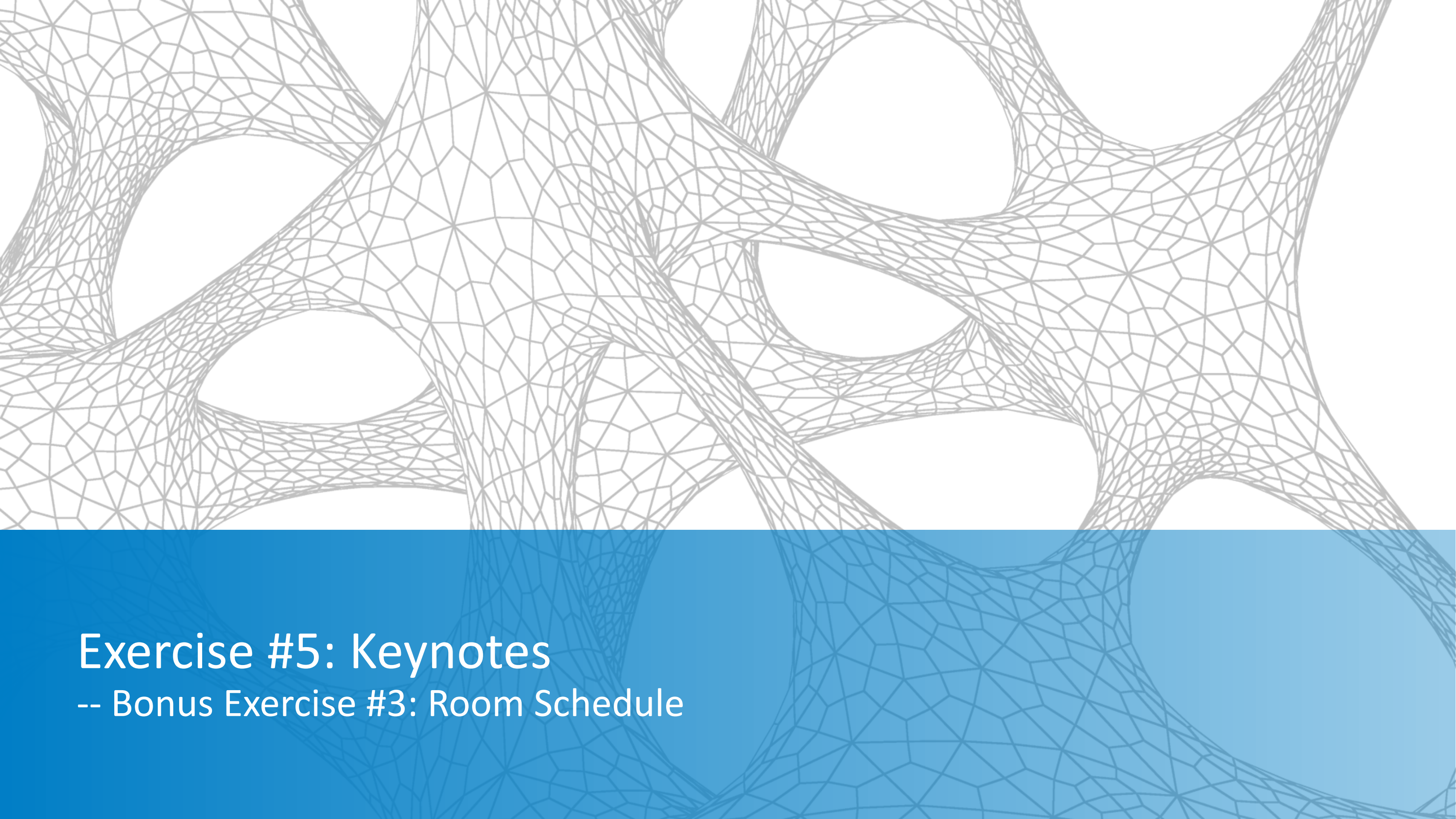
- Bonus Exercise #1: Adding new drawings
- Bonus Exercise #2: “Grouping” sheet index by discipline

The background of the slide features a complex, abstract wireframe pattern. This pattern consists of numerous interconnected lines forming a mesh of irregular polygons, resembling a topographical map or a digital landscape. The lines are thin and grey. A solid blue gradient bar, transitioning from a darker blue on the left to a lighter blue on the right, covers the bottom portion of the image, providing a contrasting background for the white text.

Exercise #4A: Landscape Material Summary



Exercise #4B: Linking to Excel



Exercise #5: Keynotes

-- Bonus Exercise #3: Room Schedule

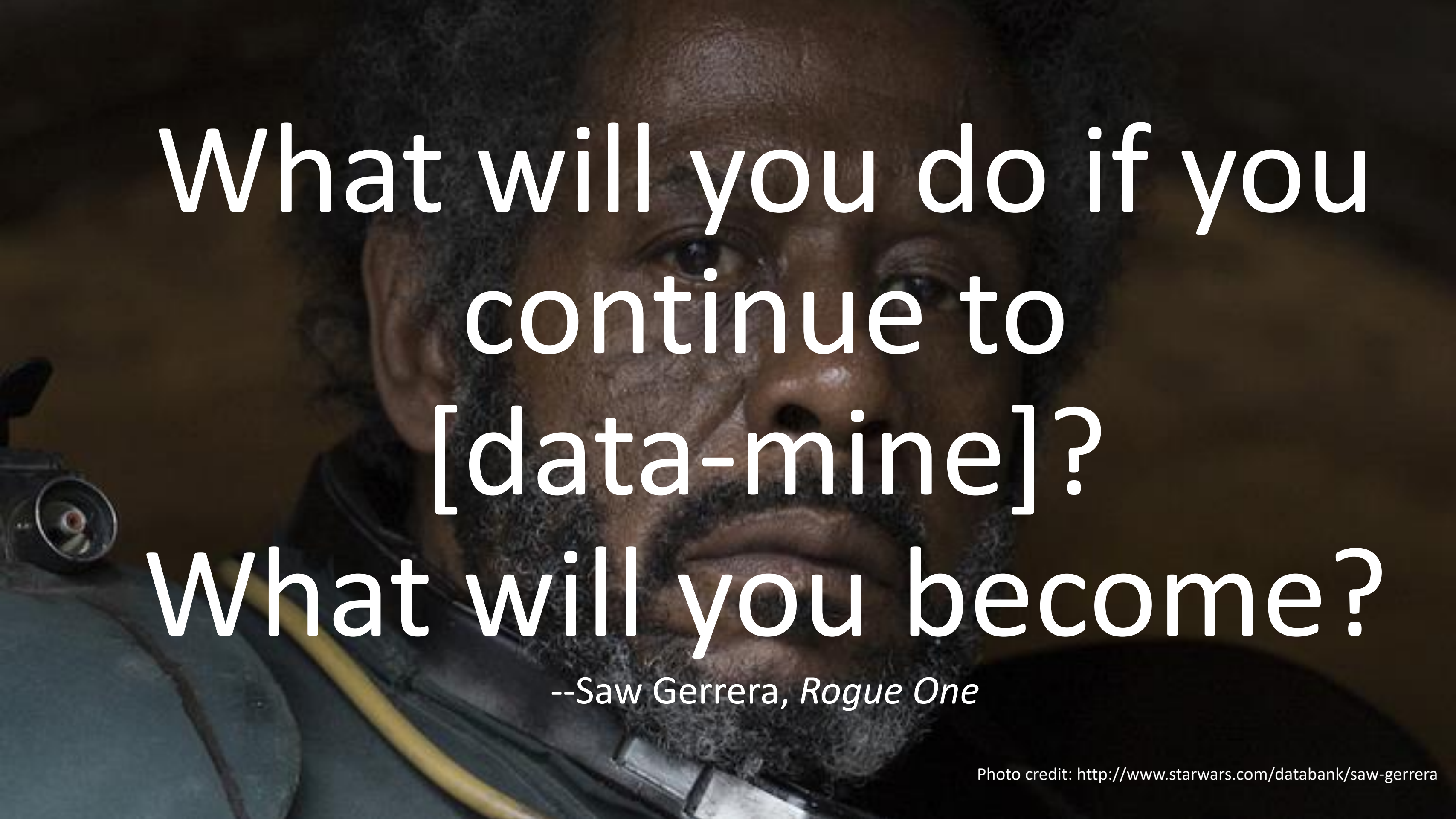
Summary

- Extract valuable data from your drawings
- Create tables
- Extract to Excel
- Combine Autocad + Excel data
- Be more productive, accurate and efficient

ben@leadensky.com



Photo credit: https://upload.wikimedia.org/wikipedia/commons/b/b3/Strip_coal_mining.jpg

A close-up, high-contrast photograph of Saw Gerrera's face. He has a dark, grizzled beard and intense, light-colored eyes. He is wearing a dark, tactical-looking garment with a yellow cable visible. The background is dark and out of focus.

What will you do if you
continue to
[data-mine]?
What will you become?

--Saw Gerrera, *Rogue One*

Photo credit: <http://www.starwars.com/databank/saw-gerrera>



Data-Mine
Make anything.

Don't forget to fill out
your class survey!