

Civil 3D: Tips, Tricks, and Unnatural Acts

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Jeff Bartels

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Autodesk Sr. Technical Specialist | @C3Dsurveyor

About the speakers



Jerry Bartels

For more than 30 years, Jerry has worked in all areas of civil engineering, surveying, and mapping, providing clients with services in CAD management, implementation, and network administration. He also has more than 10 years of experience teaching Autodesk products, as well as developing curriculum. He has received several awards from Autodesk for his presentations.



Jeff Bartels

For more than 20 years Jeff Bartels has worked in the civil infrastructure industry. Before coming to Autodesk, Jeff served as the CAD manager for a civil engineering and consulting firm in Illinois. He was one of the early adopters of Civil 3D, migrating his firm to a BIM related workflow in 2008. Since 2008, he has published 25+ titles on AutoCAD and Civil 3D.



Alan Gilbert

Alan is an Autodesk Technical Specialist supporting the efforts of the AEC sales team. This coverage includes everything from small engineering firms up to large government customers such as departments of transportation. He is registered as a Professional Engineer and Professional Land Surveyor in the state of Alabama.

About the speakers

Civil Immersion

Sharing Autodesk infrastructure ideas & workflows

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AUTHORS



About Jeff



About Jerry



About Alan

« [Introducing Civil 3D Data Shortcuts](#) | [Main](#) | [Creating higher value geometry using the Map Cleanup tools in Civil 3D](#) »

08/24/2020

Taking Advantage of AutoCAD's Annotative Objects in Civil 3D



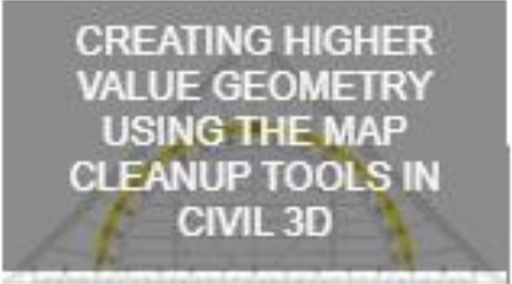
When applied to civil objects, Civil 3D's purpose built labels maintain a dynamic link to the underlying civil data AND will size themselves automatically when displayed on construction drawings. That said, civil infrastructure designs often include "generic" objects that also require labeling.

Many times these objects can be labeled using a Civil 3D note, OR (depending on your needs), an AutoCAD Annotative object may be a better fit. In today's installment, we'll explore the concept of annotative objects, learn how to create and edit them, and walk through some ways to incorporate them into our civil designs.

If you're interested, the video below walks step by step through everything you need to get started...



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Overview

Learning Objectives:

- Learn how to automate several tasks
- Learn how to make more use of underutilized features
- Learn how to use several standard functions in new ways
- Discover several useful undocumented commands

Help you get the most from your Civil 3D investment.



Let's get started...

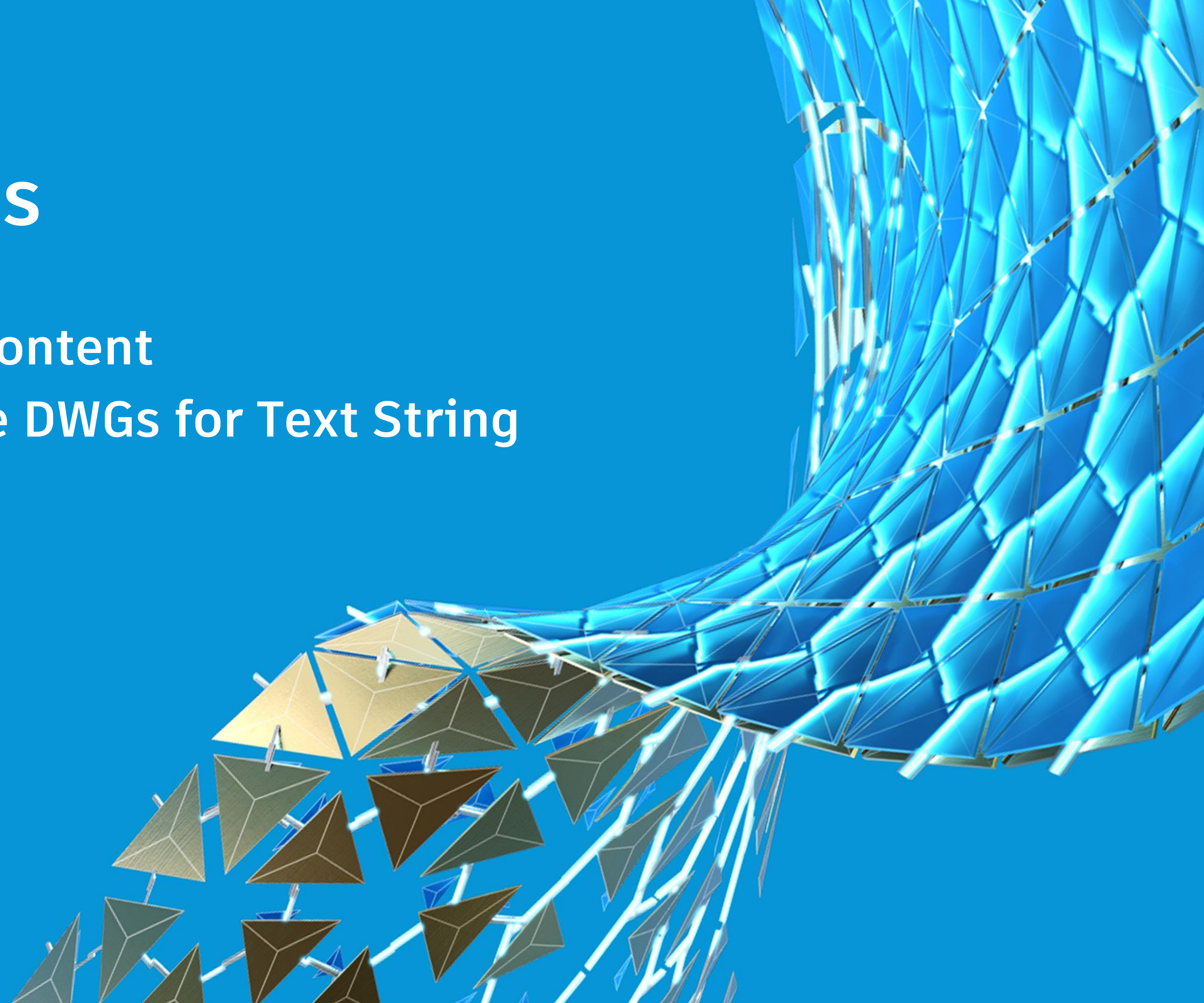


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CIVIL 3D® 2021



Jerry Bartels

Creating Custom Content
Searching Multiple DWGs for Text String



Creating Custom Content

Linetypes with symbology:

Why???

- Civil 3D may not ship with everything you need out of the box.
- If you have multiple custom linetypes we will look at how to consolidate them such that they are more portable.

Searching Multiple DWGs for Text String

Exploit the Data Extraction tool:

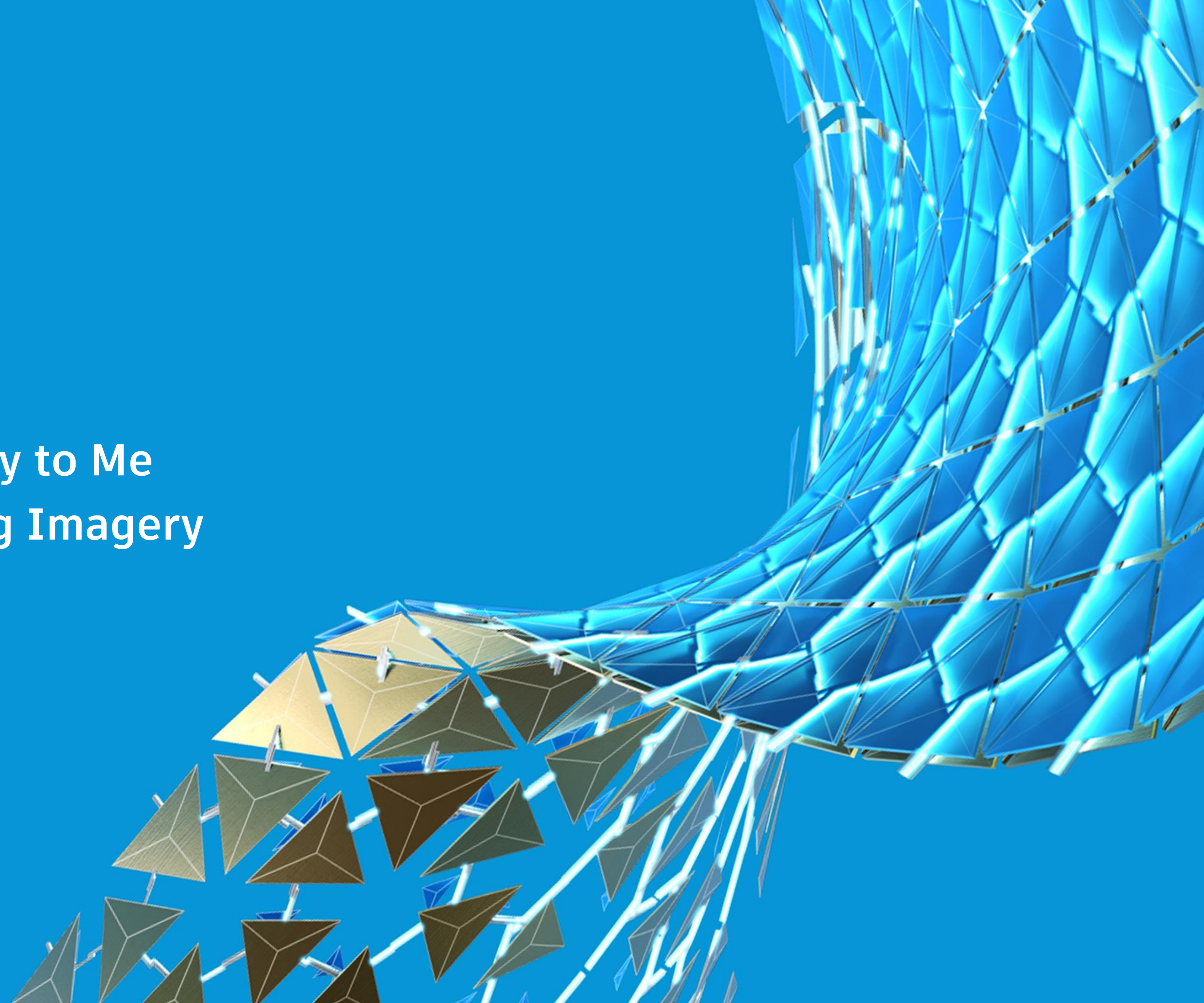
Why???

- Sometimes we need to locate a .DWG containing a specific Text String
 - Client Name
 - Street Name
 - Consultant Name
 - Project Name....

Alan Gilbert

Bing Me Up Scotty

- Bring Bing Imagery to Me
- Find Myself in Bing Imagery



Bing Me Up Scotty

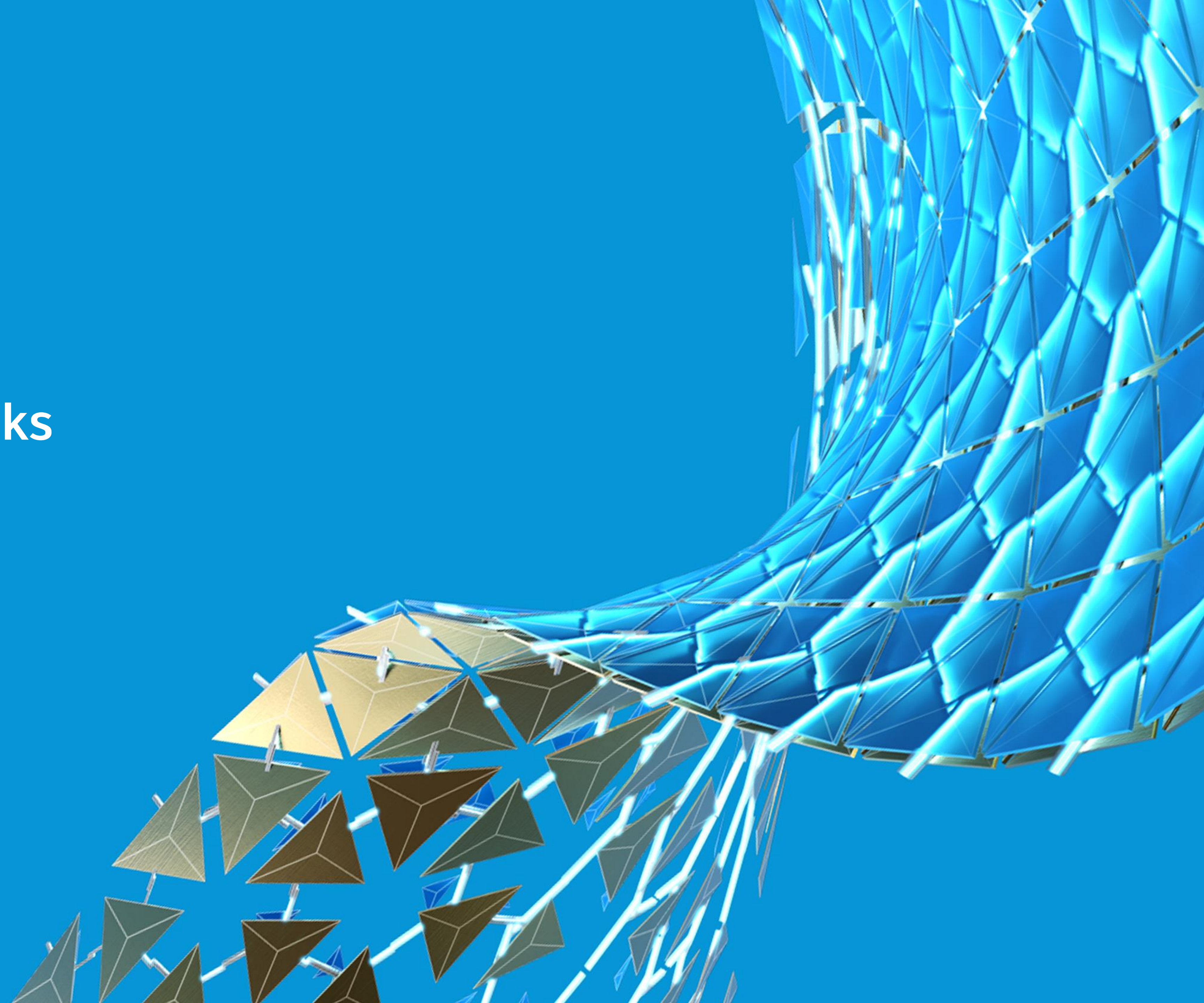
Bring Bing Imagery to Me

Why???

- Sometimes you are not yet working in “real world” coordinates and just want to overlay Civil 3D’s Bing Imagery
- Importing existing ortho imagery and adjusting it to your “local coordinates” can be a headache

Jeff Bartels

Civil 3D Tips & Tricks



Civil 3D Tips & Tricks

Categories

- Interface
- Dimensions & Measurements
- Conversions
- Points
- Profiles
- Parcels

Why???

- Improved efficiency
- Most Civil 3D courses don't focus on Tips & Tricks
- Discover new things

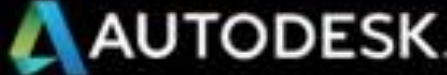


**Thank you for
attending!**

**Don't forget to fill out
your survey!**

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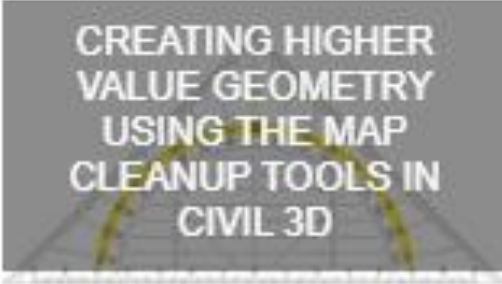
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