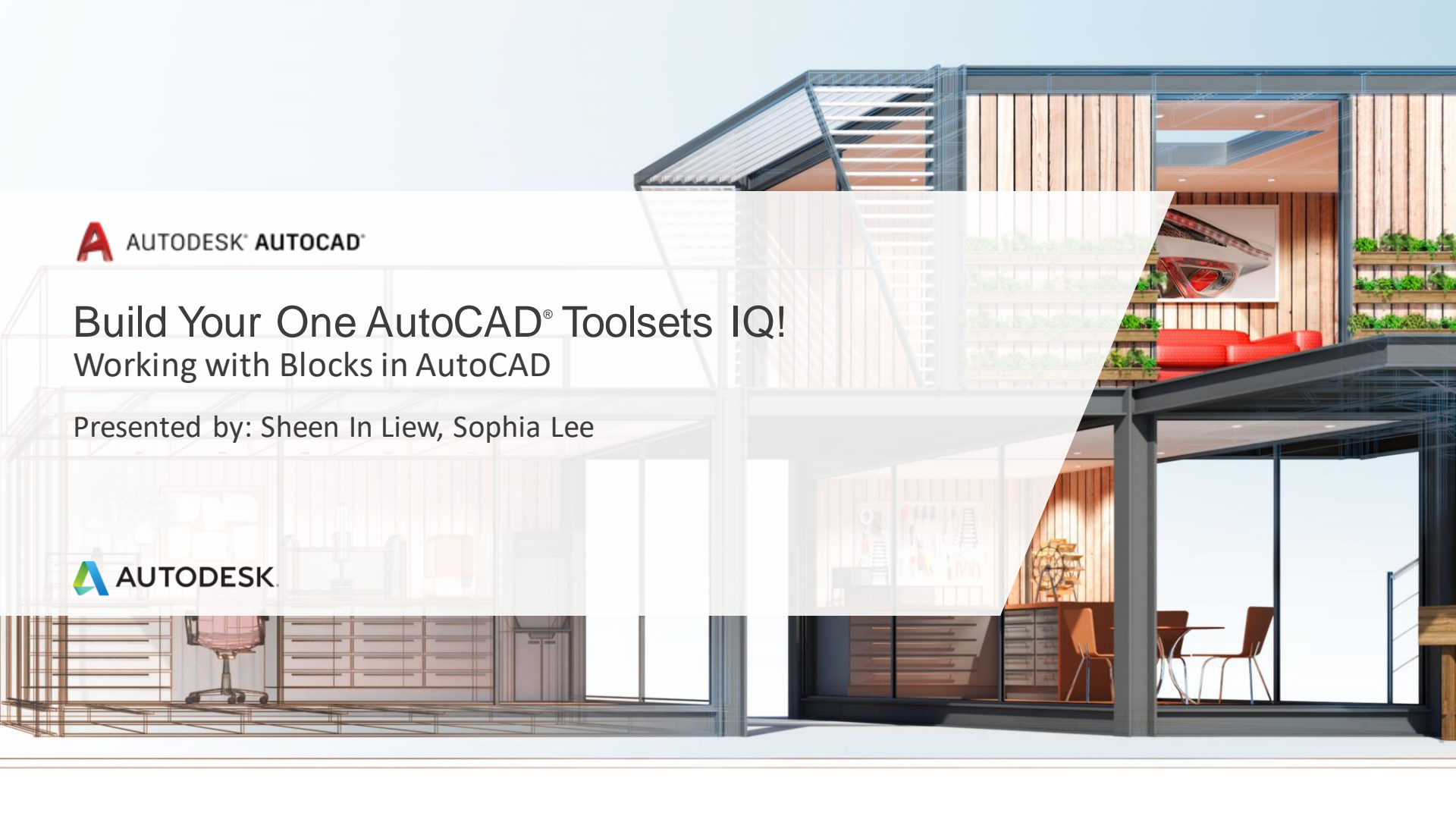




# Build Your One AutoCAD® Toolsets IQ!

## Working with Blocks in AutoCAD

Presented by: Sheen In Liew, Sophia Lee



# About Us:

- Liew Sheen In
  - Autodesk Technical Support Specialist
  - Japan, JP
  
- Sophia Lee
  - Autodesk Technical Support Specialist
  - Singapore, SG



# Welcome to the Autodesk Help Webinar Series!

## Build Your AutoCAD IQ!

Live

- ✓ Hosted by Autodesk Technical Support
- ✓ 20-40 minute demo
- ✓ Q&A in the chat window as time allows
- ✓ Sessions are recorded
- ✓ Links provided in the post-webinar survey

### Completed Topics

**17 Sep 2020**

Setting up a multi user project in AutoCAD Electrical

**21 May 2020**

AutoCAD 2021 Toolsets New Features

**23 April 2020**

AutoCAD 2021, AutoCAD Web & Mobile New Features

**23 January 2020**

Creating Custom Catalogs in AutoCAD Plant 3D



## Build Your AutoCAD IQ!

YouTube

- **Watch Past Webinars on Autodesk landing page**
- **Download Datasets from same site**
- (Script, PPT, Sample DWGs)

[Build Your AutoCAD IQ! Webinar Playlist](#)



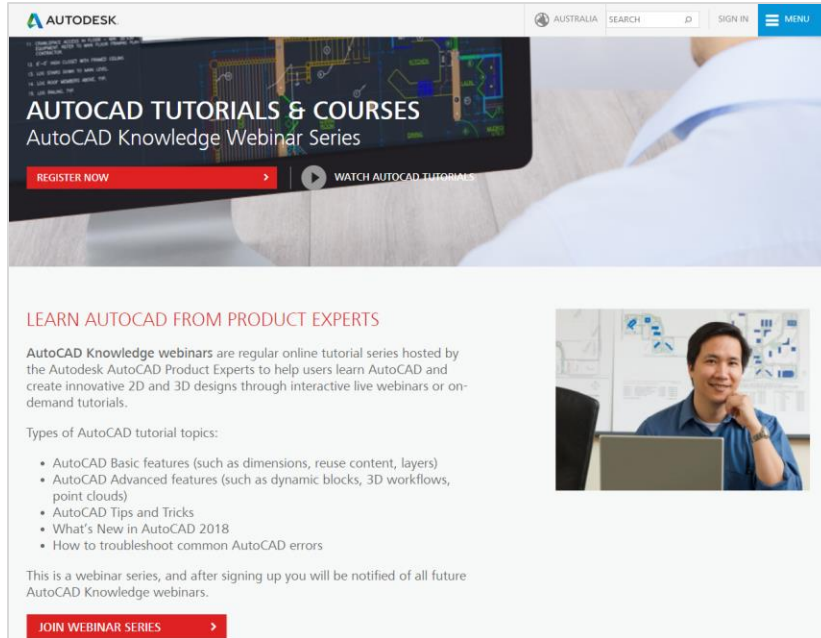
## Build Your AutoCAD IQ! **Beyond**

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- **[Build Your AutoCAD IQ! Webinar Landing Page](#)**
  - *Register for the series, or send to your colleagues*
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# Autodesk Help Webinars Landing Pages

- Our Help Webinars are available here, even if you had to miss any of the sessions.. You can watch them any time !



The screenshot shows the Autodesk Australia website. The header includes the Autodesk logo, the location 'AUSTRALIA', a search bar, a 'SIGN IN' button, and a 'MENU' icon. The main banner features the text 'AUTOCAD TUTORIALS & COURSES' and 'AutoCAD Knowledge Webinar Series' over a background image of a person in a white shirt looking at a computer screen displaying AutoCAD software. Below the banner are two buttons: 'REGISTER NOW' and 'WATCH AUTOCAD TUTORIALS'. The main content area is titled 'LEARN AUTOCAD FROM PRODUCT EXPERTS' and contains a paragraph about the webinar series, a list of tutorial topics, and a 'JOIN WEBINAR SERIES' button. A small photo of a man in a blue shirt sitting at a desk with a laptop is also visible.

**AUTODESK** AUSTRALIA SEARCH SIGN IN MENU

## AUTOCAD TUTORIALS & COURSES

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### LEARN AUTOCAD FROM PRODUCT EXPERTS

AutoCAD Knowledge webinars are regular online tutorial series hosted by the Autodesk AutoCAD Product Experts to help users learn AutoCAD and create innovative 2D and 3D designs through interactive live webinars or on-demand tutorials.

Types of AutoCAD tutorial topics:

- AutoCAD Basic features (such as dimensions, reuse content, layers)
- AutoCAD Advanced features (such as dynamic blocks, 3D workflows, point clouds)
- AutoCAD Tips and Tricks
- What's New in AutoCAD 2018
- How to troubleshoot common AutoCAD errors

This is a webinar series, and after signing up you will be notified of all future AutoCAD Knowledge webinars.

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**AutoCAD Landing Pages by Country :**

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# Autodesk Knowledge Network

knowledge.autodesk.com

## AutoCAD LT

- Getting Started
- Learn & Explore
- Downloads (Hotfixes, Licensing fixes etc.)
- Troubleshooting
- System Requirements

## Customer Service

## Installation, Activation, & Licensing

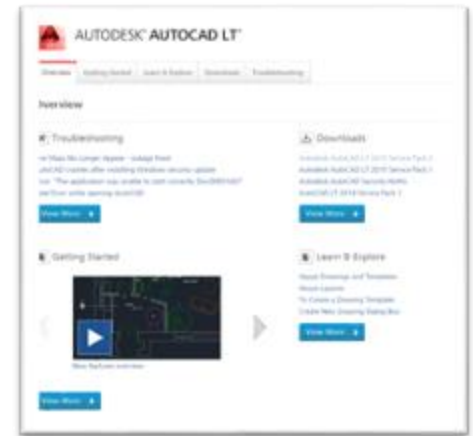
## Account Management

## AutoCAD

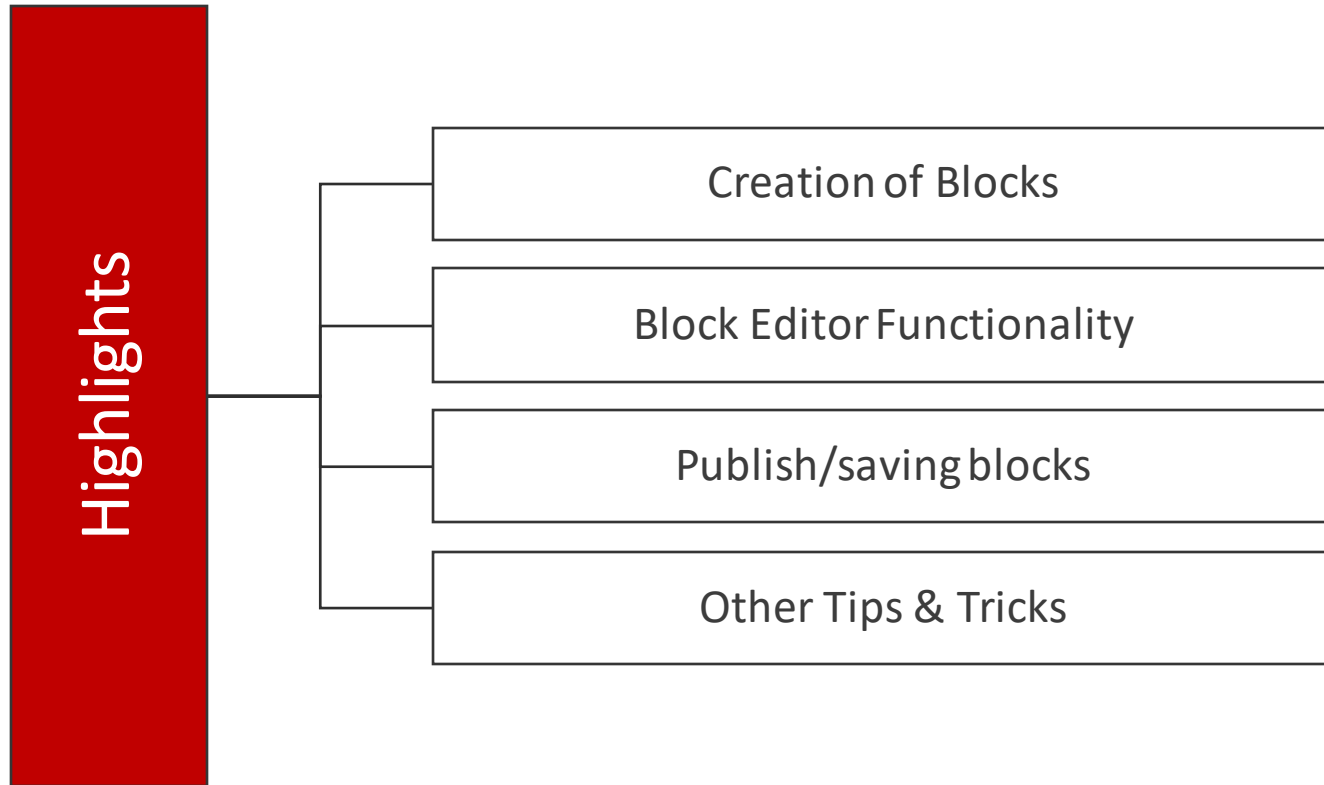
- Getting Started
- Learn & Explore
- Downloads (Hotfixes, Licensing fixes, etc.)
- Troubleshooting
- System Requirements

## Community (Forums, Blogs, Ideas, Articles, Screencast.)

## What Is Desktop Connector?



# This Webinar's Agenda



# Blocks

## What are they & Why we use them

- Blocks are complex, compound objects made up of one or more entities combined into a single object. They are commonly used for symbols, parts, and title blocks etc.
  - Block Definition – Saved in drawing database
  - Block Reference – an instance of the block definition
  - Block Attributes – labels or tags that attach data to a block
- Provides advantages such as:
  - Save time by reducing the need for repetitive tasks
  - Ensure uniformity between identical copies of symbols, parts, furniture etc.
  - Automatic updates to block references after modifying block definitions
  - Reduction in file size
  - Allow creation of custom components with intelligence

# Workflow

From creation to reuse

Create Blocks



Modify Blocks  
(Block Editor  
Functionality)

- Inserting Attributes (with fields)
- Dynamic Block features
  - Basepoint
  - Lookup
  - Properties Table



Saving blocks for  
Future reuse

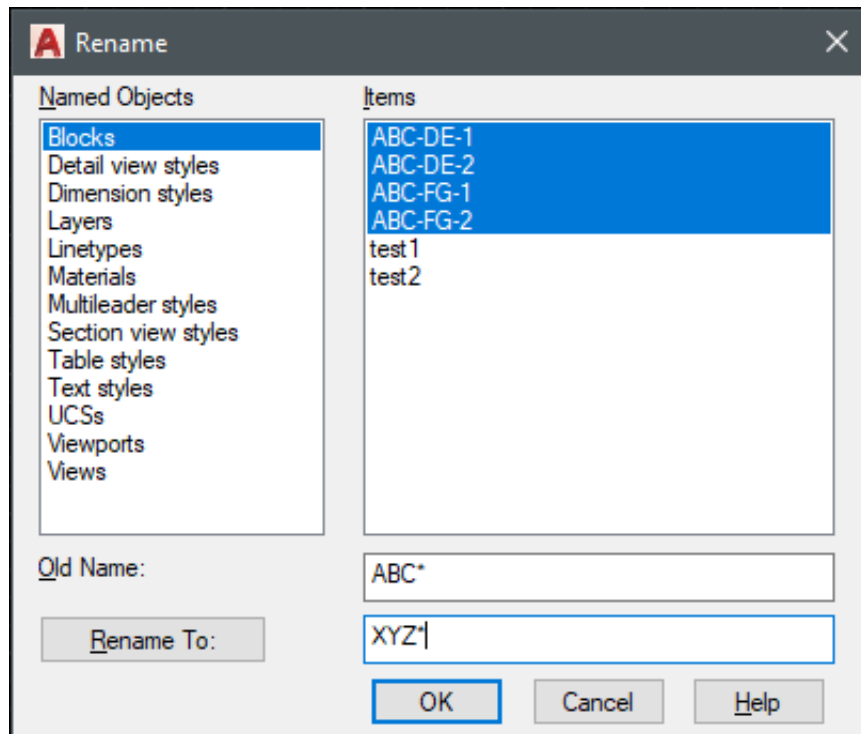
- Blocks Palette
- Tools Palette
- Design Center



# Blocks Tips & Tricks

## Rename Blocks

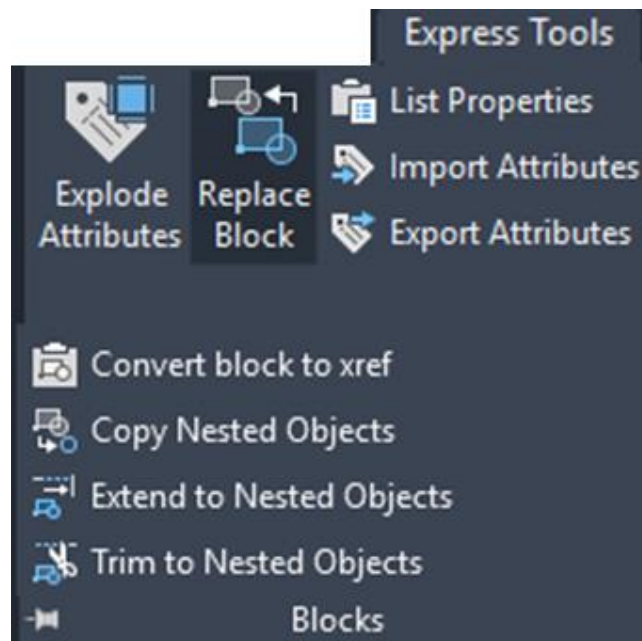
- Command : **RENAME**
- 'Rename To:' button will update in place
- Click 'OK' to update changes in the drawing
- Rename Multiple blocks
  - \* (Asterisk Mark)
  - ? (Question Mark)



# Blocks Tips & Tricks

## Block commands from Express tool (AutoCAD & Verticals)

- Explode Attributes : BURST
- Import/Export Attributes
- Replace Block
- List Properties
- Convert blocks to XREF
- Copy Nested Objects
- Extend to Nested Objects
- Trim to Nested Objects



- [Control panel > Programs and features > AutoCAD > Add or Remove features](#)

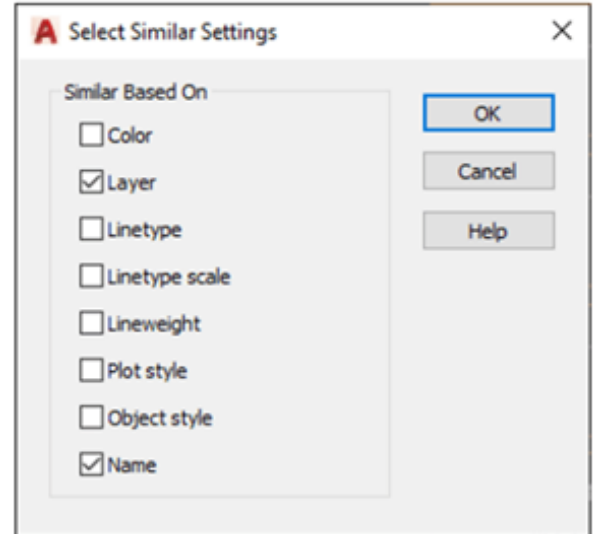
# Blocks Tips & Tricks

## Counting Blocks

- Command : **BCOUNT** (Express Tool)
  - Note: BCOUNT does not select or count nested blocks or blocks nested in associative array objects.
- **SELECTSIMILAR** > Check properties
- **QSELECT** > Block Reference > Name



Block.....	Count
CHAIR .....	10
TABLE .....	9
DESK .....	4



# Additional Links:

- [AutoCAD 2021 Help - Blocks](#)
  - [About Using a Block Properties Table](#)
  - [About Controlling the Visibility of Objects in Dynamic Blocks](#)
- Past Webinars on blocks:
  - [Working with Dynamic Blocks: AutoCAD 2017 WEBINAR | AutoCAD](#)
  - [Back to Basics: Introduction to Blocks in AutoCAD 2017 WEBINAR | AutoCAD](#)
  - [AutoCAD 2021 New Features Webinar \(includes Block Palette Enhancements\)](#)
- [Introduction of Design Center](#)
- [About the Blocks Palette](#)

# Q&A





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