AUTODESK UNIVERSITY

Take your pick… Object Selection in AutoCAD

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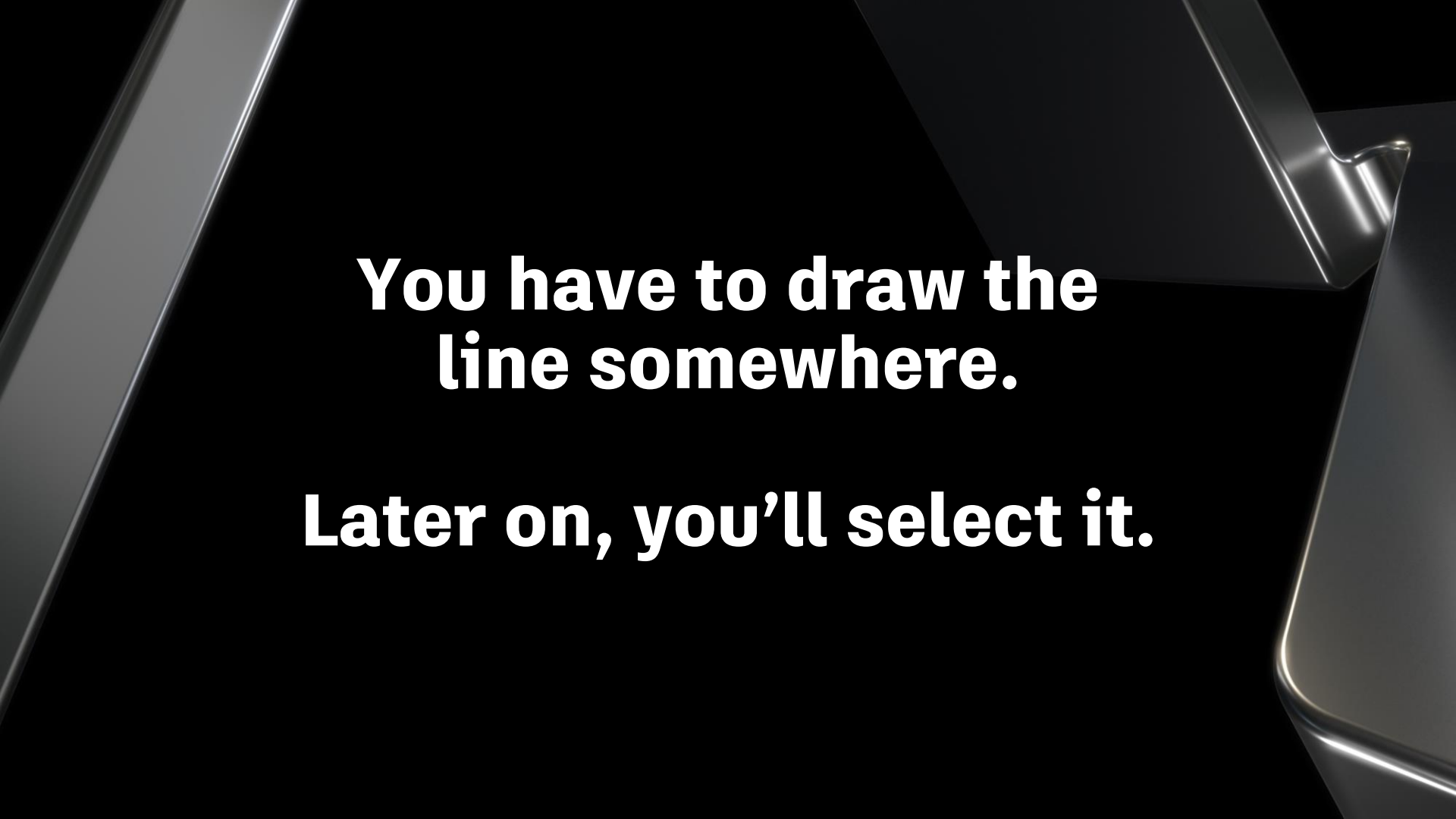

You have to draw the line somewhere.
Later on, you'll select it.

What We Will Cover Today

Learning Objectives

1

Understand and differentiate the primary object selection methods, such as Pick and Window

2

Learn to use object properties and other AutoCAD tools for object selection, such as object isolation

3

Troubleshoot instances when object selection does not function as expected

4

Learn how to use macros and LISP to create custom selection tools

What We Won’t Cover Today

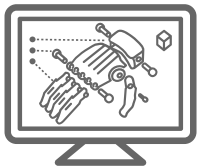
- Third Party products or features
- Vertical Features
- In-depth Programming

Additional information

Wait! There’s more!

- See the handout for more in-depth information in the Bonus section

What makes CAD valuable?



Objective 1

Learning Objectives

- Understand and differentiate the primary object selection methods, such as Pick and Window

Mouse Selection

Primary Object selection Methods

- Pick
- Window
- Crossing
- Window Polygon
- Crossing Polygon
- Fence
- Lasso

Keyboard Selection

Primary Object Selection Methods

- All
- Previous
- Last
- Remove
- Add

Keyboard and Mouse Selection Demo

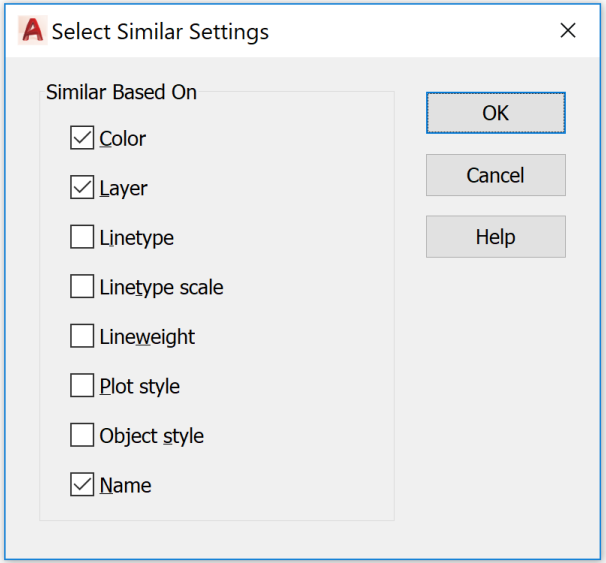
Objective 2

Learning Objectives

- ✓ Understand and differentiate the primary object selection methods, such as Pick and Window
- Learn to use object properties and other AutoCAD tools for object selection, such as object isolation

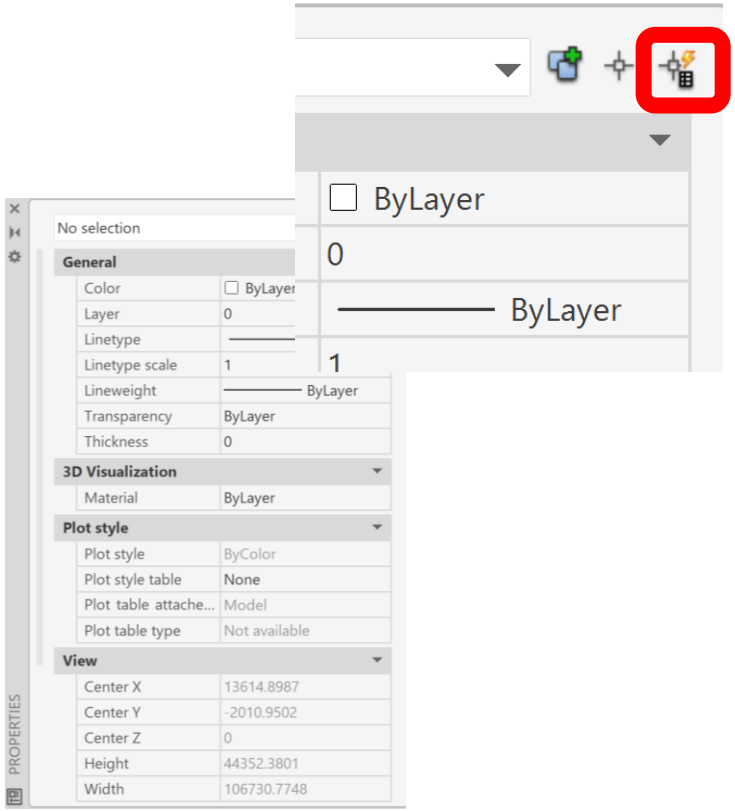
Select Similar

- On Pop-up Menu
- After an object is selected
- Match object type and object properties
- Select Similar Settings



Quick Select

- On Properties Palette
- Object type
- One object property, or
- One geometric property
- Logical operator
- New/Exclude/Append



Quick Select

- On Properties Palette
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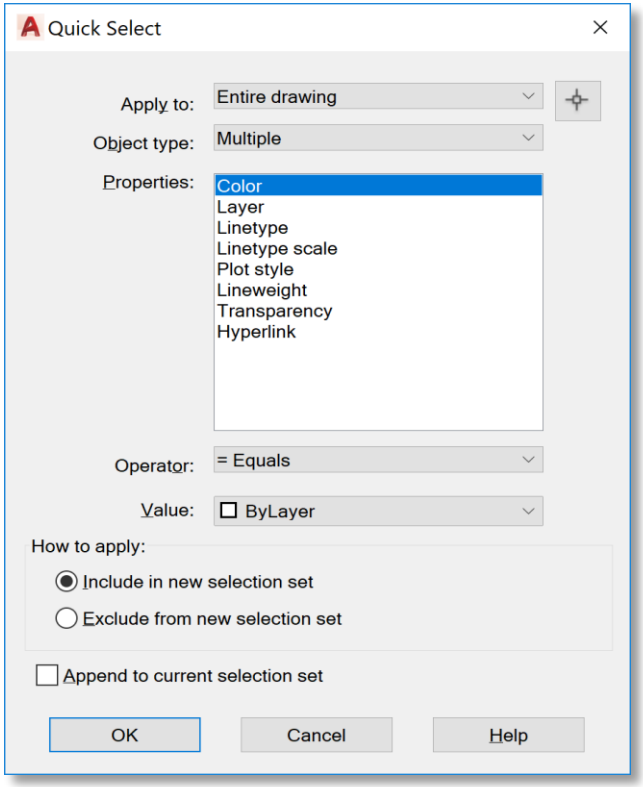
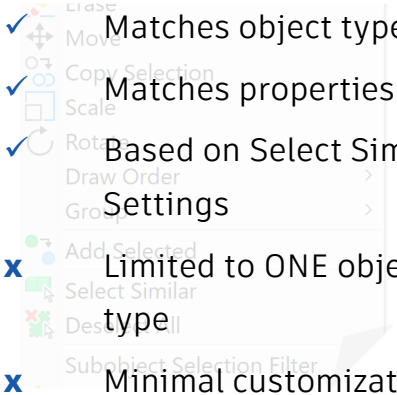


Select Similar and Quick Select Demo

In Summary

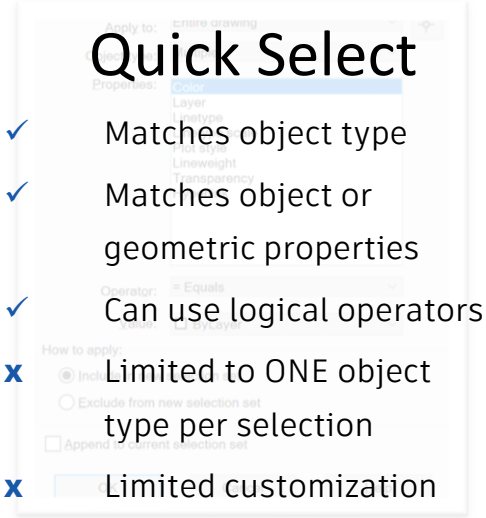
- Objective 2

Select Similar



- ✓ Matches object type
- ✓ Matches properties
- ✓ Based on Select Similar Settings
- x Limited to ONE object type
- x Minimal customization
- x No saving

Quick Select

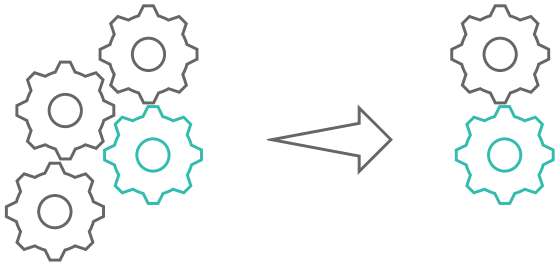


- ✓ Matches object type
- ✓ Matches object or geometric properties
- ✓ Can use logical operators
- x Limited to ONE object type per selection
- x Limited customization
- x No saving

Wait! There's More!

Other Selection Tools

- Isolate Objects



- Find

- Filter

Still More!

Other Selection Tidbits in the Handout!

- Pickfirst
- Pickadd
- Group
- Selection Cycling
- Legacyctrlpick
- Fastsel

Objective 3

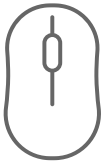
Learning Objectives

- ✓ Understand and differentiate the primary object selection methods, such as Pick and Window
- ✓ Learn to use object properties and other AutoCAD tools for object selection, such as object isolation
- Troubleshoot instances when object selection does not function as expected

That Didn’t Go as Planned…

Objective 3

- Selection Criteria too Narrow
- Selection Criteria too Broad
- Objects not selectable
- Wrong Object Type



AutoCAD follows your commands, not your intentions.

Troubleshooting Tips

Objective 4

Learning Objectives

- ✓ Understand and differentiate the primary object selection methods, such as Pick and Window
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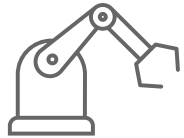
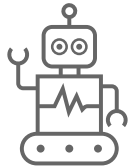
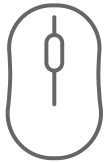
Create a Selection Macro

Objective 4

- A Macro is a saved command or string of commands
- It is a tool to automate repetitive and common tasks
- Can range from simple to complex
- Can be saved as a command and re-used





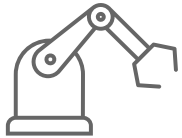


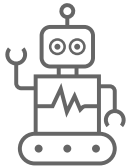
Creating a Macro

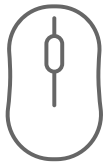
Selection with LISP

Objective 4

- Programming Language
- Excellent customization
- Excellent Communities
  - Autodesk Forums
  - AUGI
  - The Swamp







Loading a LISP file

Whenever possible, use object properties with automation and have AutoCAD help build your selection sets.

We Did it!

Learning Objectives

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Thank you for your time!

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