ArcGIS for Desktop

ArcMap

ArcGIS Pro
ArcGIS for Desktop

ArcGIS Pro

Desktop
Web
Device

Portal

Server
Online Content and Services

Apps
Access
Services
Pro

- 64 Bit, multi-threaded
- Simplified user interface
- Integrated with ArcGIS Online
- Combined 2D/3D experience
- Multiple maps and map layouts
- Simple search and query
Fusion of Applications

ArcMap / ArcCatalog

ArcGlobe / ArcScene

CityEngine

ArcGIS Pro
How can I customize ArcGIS Pro?

- Use
- Configure
- Automate
- Extend

Customize ArcGIS Pro by using:

- Python
- .NET API

References:
- ArcGIS
- ArcGIS.Core
- ArcGIS.Desktop.Catalog
- ArcGIS.Desktop.Core
- ArcGIS.Desktop.Editing
- ArcGIS.Desktop.Extensions
- ArcGIS.Desktop.Framework
- ArcGIS.Desktop.Mapping
- ArcGIS.Desktop.Shared.Wpf
- Microsoft.CSharp
- PresentationCore

Tasks:
1. Write Output Directions to text file
2. Create a Web Layer from Output Directions
Tasks in Pro

A task is a set of preconfigured steps that guide you and others through a workflow or business process.
Components of a task

A task is created in a task item in an ArcGIS Pro project.

A project can contain multiple task items and a task item can contain multiple, related tasks.

Task items are stored under Tasks on the Project pane.
Design a task item
1. Contains one or many tasks
2. Can groups related tasks into Task Groups
3. Tasks contain a set of sequential steps
4. Task Steps – perform the actions
The Task Designer
Create and design
Task Item
Task group
Tasks
Task steps
Design Considerations
How will the task item be used?

Provide a best practice workflow for a business process.

Enforce a correct workflow within an organization.

Provide efficient, repeatable workflows.

A tutorial that guides users through a series of interactive steps.
How are your tasks organized?

Item
Group
Task
Steps
What are the step behaviors?

- Manual
- Auto run
- Auto proceed
- Automatic
- Optional
Task item validation

Automatically checked when opening tasks items
Errors and warnings are shown in the messages

- Missing task item, task and group descriptions
- Missing task, group, and step names
- The use of default names such as "New Task" and "New Step"
- Duplicate names
- Tasks that contain no steps
- A task item that contains only hidden tasks
A task is created in a task item

Steps are created for each task
Task Designer

For creating Task Items, Tasks and steps

Steps to all the work
Steps perform actions

• Load and run commands
• Run Geoprocessing tools
• Create, save, or clear feature selections
• Set an active view
• Set the visibility, selectability, editability, and snapability of layers
• Select a layer in the Contents pane
• Label layers in the chosen active view.
Step execution is controlled by configuring the **step behavior**

- Manual
- Auto Run
- Auto Proceed
- Automatic
- Optional
Steps can also be recorded

The quickest way to create a task step that loads a command is to record a step.

During a recording session, each command or tool clicked creates a new step in the **Tasks** pane.
Managing selections when starting a step

Managing selections before the step command executes

Managing selections when exiting the step
A task step can be configured to open, activate, and close views under the Views.
configure the contents for the active view under the Contents
Task Demo
Create a new task item

- Create a new task item
- Create a new task
- Create the task steps

This workflow guides you through the steps to create a new task item. The task item will contain one task that will accomplish the following:

- Search for a work area in the map.
- Create and attribute a new feature.

This workflow assumes that you are using your own data. Your data should contain at least one feature layer.

Create a new task item

1. In a project in ArcGIS Pro, open a map that contains one or more feature layers.
2. Click the View tab and click Tasks 📊 to open the Tasks pane.
4. In the Task Designer pane, type a name for your task item in the Name text box.