# Interoperating with Dynamic Languages

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# Overview

Why dynamic interop?

Getting started with IronPython

Getting scripting input from the user

Executing Python statements

Interacting with Python objects

Passing custom dynamic objects to Python

# Why Dynamic Interop?

### Language features

**Not existing in C#**

**Chained comparison operators**

**1 < age < 50**

**More elegantly solve the problem**

### Libraries and scripts

**Existing libraries**

**Scripts**

**No .NET version exists**

**Already written in company**

### Scripting

**Add user scripting to application**

**E.g. user entering business rules as expressions**

Allowing users to enter and execute arbitrary script/code may introduce security, data corruption, and other risks.

# Summary

Why dynamic interop?

Getting started with IronPython

IronPython NuGet package

Python.CreateEngine()

SourceCodeKind.Expression

SourceCodeKind.SingleStatement

Python tuple

engine.CreateScriptSourceFromFile()

Pass HtmlElement to Python script

# My Pluralsight Course List

**https://bit.ly/psjason**

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