

Taking Advantage of Loose Coupling

Easy Extensibility with Dependency Injection

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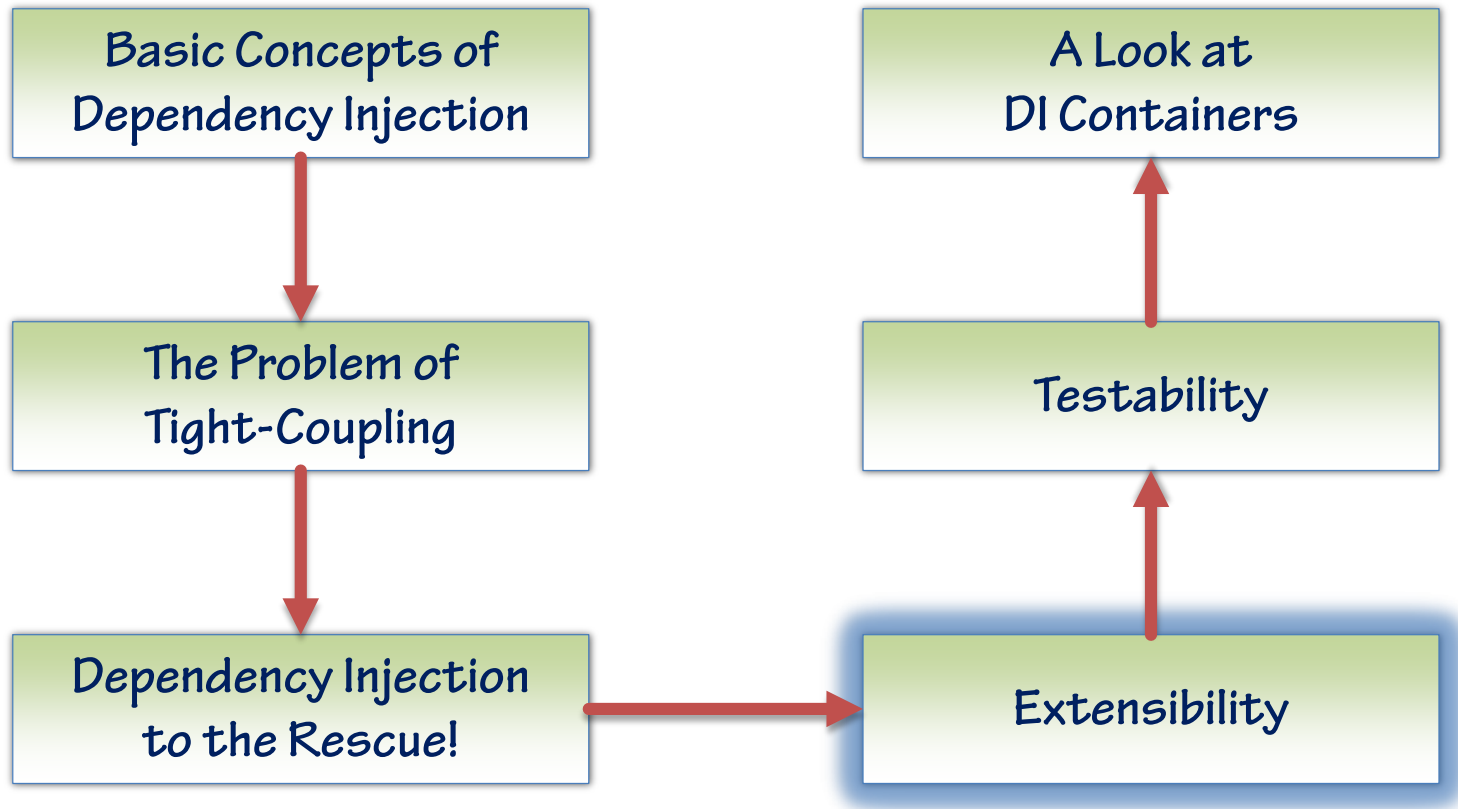
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Goal

- Get Comfortable with Dependency Injection



Scenario 1: Different Repositories

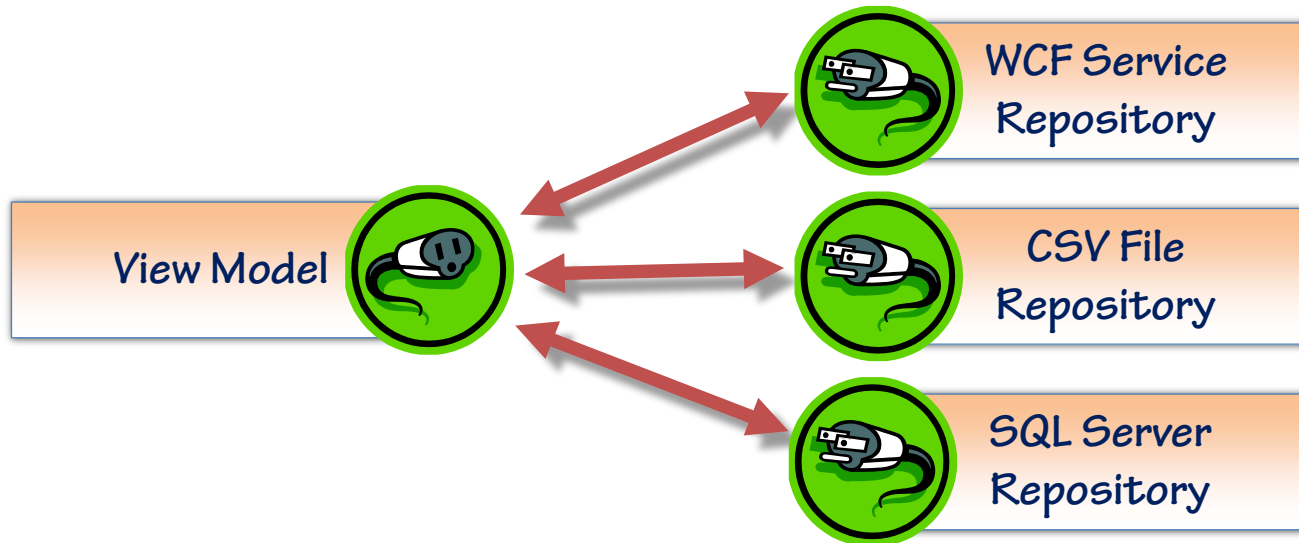
```
public class PeopleViewerViewModel : INotifyPropertyChanged
{
    protected IPersonRepository Repository;

    public PeopleViewerViewModel(IPersonRepository repository)
    {
        Repository = repository;
    }
    ...
}
```

```
private static void ComposeObjects()
{
    var repository = new ServiceRepository();
    var viewModel = new PeopleViewerViewModel(repository);
    Application.Current.MainWindow = new PeopleViewerWindow(viewModel);
}
```

- The View Model accepts any class implementing IPersonRepository
- We choose a Repository in our Composition Root

Pluggable Repositories

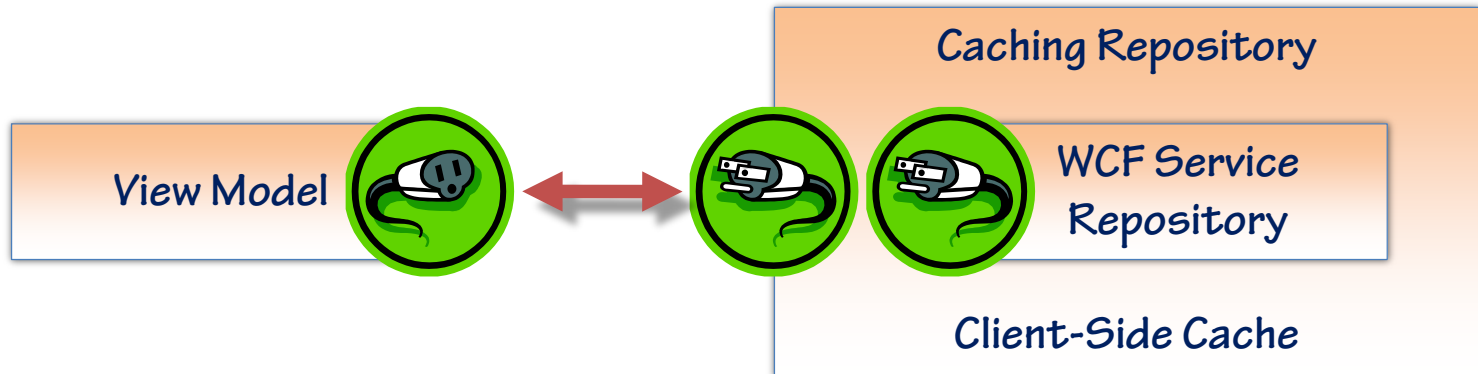


Scenario 2: Client-Side Caching

```
private static void ComposeObjects()
{
    var repository = new ServiceRepository();
    var viewModel = new PeopleViewerViewModel(repository);
    Application.Current.MainWindow = new PeopleViewerWindow(viewModel);
}
```

- **Add a Caching Repository**
- **Put the objects together a little differently in the Composition Root**

Creating a Caching Repository



Summary

- **Additional Repositories**

- CSV Repository
- SQL Repository

- **Client-Side Caching**

- Caching Repository

- **Next Up: Unit Testing**

Easy Testing with Dependency Injection

