## achieving system simplicity

#### me

```
I Am:
@jon_fuller
practicing apprentice
SEP
```

I Am Not: expert all-knowing simplicity

flexible

### maintainable

### testable

agile

# low coupling

## DIP

loC

OMG!

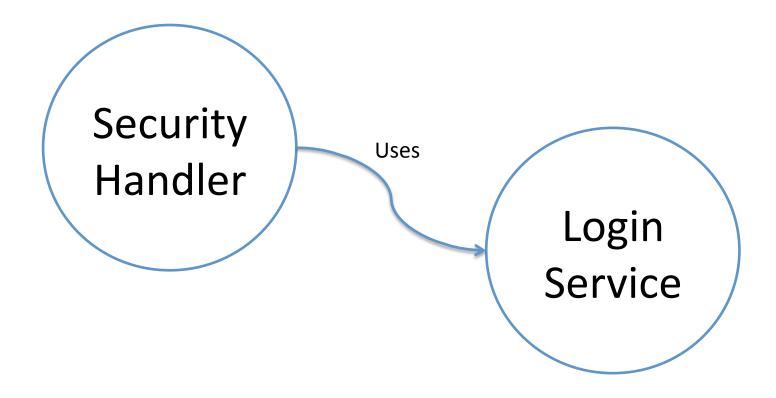
acronym overload

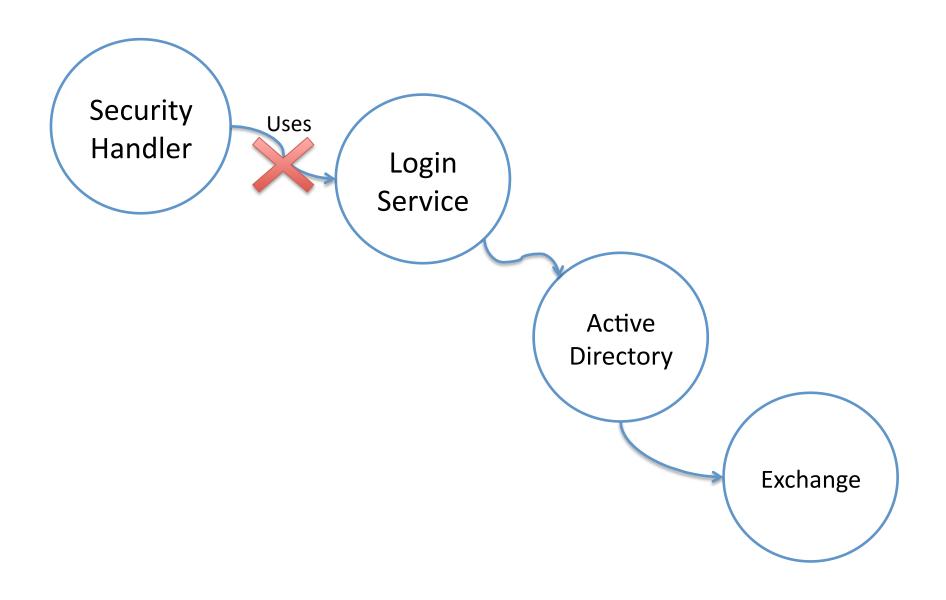
DI

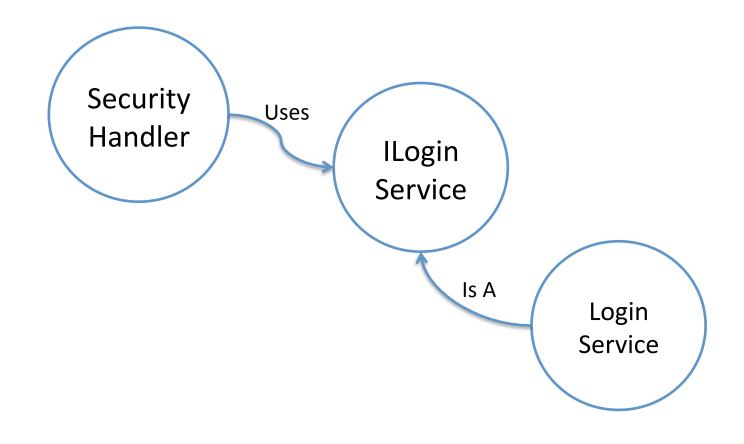
WTF?

Single Responsibility
Open-Closed
Liskov Substitution
Interface Segregation
Dependency Inversion

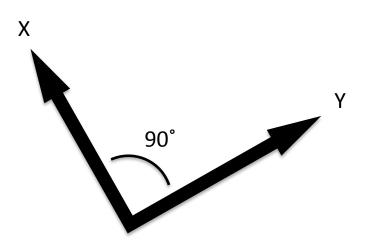








HIGH LEVEL MODULES SHOULD NOT DEPEND UPON LOW LEVEL MODULES. BOTH SHOULD DEPEND UPON ABSTRACTIONS.



#### service location

# dependency injection

```
public class MovieLister
{
    private readonly IMovieFinder _finder;
    public MovieLister()
    public IMovieFinder Finder
        get;
        set;
    public IEnumerable<Movie> MoviesDirectedBy(string director)
        return _finder
                  .FindAll()
                  .Where(movie => movie.Director == director);
```

# poor man's DI

```
public class MovieLister
{
    private readonly IMovieFinder _finder;
    public MovieLister()
      : this(ServiceLocator.Locate<IMovieFinder>())
    public MovieLister(IMovieFinder finder)
       _finder = finder;
    public IEnumerable<Movie> MoviesDirectedBy(string director)
        return _finder
                  .FindAll()
                  .Where(movie => movie.Director == director);
```

# simplicity

#### inversion of control

### declarative

### container

# free your mind

#### conventions

Java .NET

Dynamic

### lifecycle management

# aop/interception

simplicity

@jon\_fuller fullerjc@gmail.com github.com/jonfuller } Feedback please!