

Naive container

- A very simple and naive dependency injection container

Dependencies

- Dependencies are injected via constructors
- Each constructor parameter defines one dependency
- There are two types of dependencies
- Simple dependencies (`Dependency<T>` class) are characterized solely by a type (`Class<T>`)

```
ctor(Service1 srv, String s, Integer i){...}
```

- Named dependencies (`NamedDependency<T>` class) are characterized by a type (`Class<T>`) and by a name (`String`)
 - The name is defined in parameter annotation

```
ctor(@Named("host") String s, @Named("port") Integer i){...}
```

Bindings

- A binding defines a mapping between a dependency and a way to obtain instances.
- There are three different binding types
 - `TypeBinding`, binds a dependency to a concrete type. Each binding usage will produce a new instance of that type.
 - `InstanceBinding`, binds a dependency to an instance
 - `SingletonBinding`, binds a dependency to a concrete type. Each binding usage will return the *same* instance of that type.

Injector

- An injector creates instances and injects dependencies into them

```
public interface Injector {  
    public <T> T getInstanceOfExactType(Class<T> type);  
    public <T> T getInstance(Dependency<T> type);  
    public <T> T getInstance(Class<T> type);  
    public void addBinding(Binding<?> b);  
}
```

Configuration

- An `InjectorConfiguration` configures an injector, i.e., adds a set of bindings to an injector.

```
public interface InjectorConfiguration {  
    public void configure(Injector injector) throws NaiveContainerException;  
}
```