Expression support for defining bean definitions

SpEL expressions can be used with XML or annotation-based configuration metadata for defining BeanDefinitions. In both cases the syntax to define the expression is of the form #{ <expression string> }

XML based configuration

A property or constructor-arg value can be set using expressions as shown below.

The variable systemProperties is predefined, so you can use it in your expressions as shown below. Note that you do not have to prefix the predefined variable with the # symbol in this context.

You can also refer to other bean properties by name, for example.

Annotation-based configuration

The @Value annotation can be placed on fields, methods and method/constructor parameters to specify a default value.

Here is an example to set the default value of a field variable.

```
public static class FieldValueTestBean

@Value("#{ systemProperties[user.region] }")
  private String defaultLocale;

public void setDefaultLocale(String defaultLocale) {
    this.defaultLocale = defaultLocale;
  }

public String getDefaultLocale() {
    return this.defaultLocale;
  }
}
```

The equivalent but on a property setter method is shown below.

```
public static class PropertyValueTestBean

private String defaultLocale;

@Value("#{ systemProperties[user.region] }")

public void setDefaultLocale(String defaultLocale) {
    this.defaultLocale = defaultLocale;
 }

public String getDefaultLocale() {
    return this.defaultLocale;
 }
}
```

Autowired methods and constructors can also use the @Value annotation.