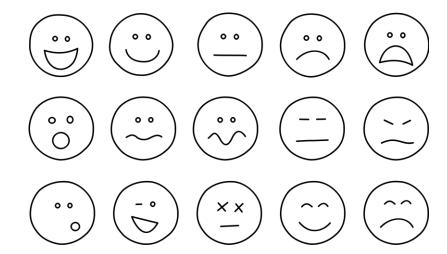


SPRING FRAMEWORK

EXPRESSION LANGUAGE

APRIL, 2015

EXPRESSION LANGUAGE



LITERALS

```
cproperty name="num" value="#{5}">
cproperty name="num" value="#{-5.5}">
cproperty name="num" value="#{0x7AF7}">
cproperty name="num" value="#{6.2E+7}">
cproperty name="b" value="#{false}">
cproperty name="s" value="#{null}">
cproperty name="s" value="#{'Hello'}">
```

BEAN REFERENCE

```
cproperty name="client" value="#{client}">
cproperty name="client" ref="client">
```

BEAN REFERENCE

BEAN REFERENCE

```
cproperty name="client" value="#{client}">
cproperty name="client" ref="client">
cproperty name="..."
            value="#{app.defaultLogger}">
cproperty name="..."
            value="#{app.createEvent()}">
cproperty name="..."
            value="#{client.say('Hello')}">
```

METHOD CALL

```
roperty name="..."

value="#{app.createEvent().date}">
```

METHOD CALL

METHOD CALL

```
cproperty name="..."
         value="#{app.createEvent().date}">
NULL-CHECK
   cproperty name="..."
         value="#{app.createEvent()?.date}">
STATIC METHODS
   cproperty name="..."
         value="#{T(java.lang.Math).PI}">
   cproperty name="..."
      value="#{T(java.lang.Math).random()}">
```

OPERATIONS

MATHEMATICAL

OPERATIONS

MATHEMATICAL

RELATIONAL

OPERATIONS

MATHEMATICAL

RELATIONAL

LOGIC

```
cproperty value="#{a and b}"
cproperty value="#{not (a | b)}"
```

TERNARY



TERNARY

```
cproperty name="..."
       value="#{ condition ?
               trueValue : otherValue }">
 Event.isDay() {
         8 am - 5 pm \rightarrow true
          5 pm - 8 am \rightarrow false
```



TERNARY

```
cproperty name="..."
       value="#{ condition ?
              trueValue : otherValue }">
 Event.isDay() {
         8 am - 5 pm \rightarrow true
         5 pm - 8 am → false
#{ T(Event).isDay() ? fileEventLogger
                      : consoleEventLogger }
```

ELVIS ?:

```
cproperty name="msg"
  value="#{ client.greeting ?: 'Hello'}">
if ( client.greeting != null )
   msg = client.greeting
else
  msg = 'Hello'
```

COLLECTIONS SUPPORT

SYSTEM ENV

```
cproperty value="#{ systemEnvironment['USER'] }"
```

VM ARGUMENTS

```
cproperty value="#{ systemProperties['dir'] }"
```

OPERATIONS ON COLLECTIONS

SELECTION

All elements with condition

```
cproperty value="#{ clients.?[id < 10] }"</pre>
```

First suitable element:

```
cproperty value="#{ clients.^[id > 10] }"
```

Last suitable element:

```
cproperty value="#{ clients.$[id > 10] }"
```

OPERATIONS ON COLLECTIONS

SELECTION

All elements with condition

```
cproperty value="#{ clients.?[id < 10] }"</pre>
```

First suitable element:

```
cproperty value="#{ clients.^[id > 10] }"
```

Last suitable element:

```
cproperty value="#{ clients.$[id > 10] }"
```

PROJECTION

```
cproperty value="#{ loggers.![name] }"
```



THANK YOU

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