

# Cascade CMS Velocity Cheatsheet

More Velocity and format-based resources are available on our Knowledge Base:  
<http://www.hannonhill.com/cascadecms/8/kb/script-formats>. To use any of the Velocity snippets, enter the snippet as shown and hit the enter key on your keyboard, scrolling down as necessary to pick the right snippet.

| Velocity Code                                                        | Method                                                                                                                                                                 | Snippet                 |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Comment</b>                                                       | ## This is a Velocity comment.<br>##* This is a multiline comment. *#                                                                                                  |                         |
| <b>Set (variable assignment)</b>                                     | #set ( \$var = )                                                                                                                                                       | set                     |
| <b>*.getChild (child node of previously selected \$node element)</b> | \$node.getChild("[nodename]")                                                                                                                                          | .g                      |
| <b>If</b>                                                            | #if ( true )<br>#end<br><br>#if ( true )<br>#else<br>#end                                                                                                              | If<br><br>ife           |
| <b>For-each</b>                                                      | #foreach ( \$item in \$collection )<br>## foreach code<br>#end                                                                                                         | foreach                 |
| <b>Macro</b>                                                         | #macro ( macroName \$variables )<br>## macro code<br>#end                                                                                                              | macro                   |
| <b>XPath Tool</b>                                                    | \$_XPathTool.selectSingleNode<br>\$_XPathTool.selectNodes                                                                                                              | X.ssn<br>X.sn           |
| <b>Escape Tool</b>                                                   | \$_EscapeTool.xml(\$string)<br>\$_EscapeTool.html(\$string)<br>\$_EscapeTool.javascript(\$string)                                                                      | Esc.x<br>Esc.h<br>Esc.j |
| <b>Serializer Tool</b>                                               | \$_SerializerTool.serialize(\$collection, true)                                                                                                                        | Ser.s                   |
| <b>Date Tool</b>                                                     | \$_DateTool.format("[format] <sup>1</sup> ", \$date)<br>\$_DateTool.getDate(\$date)                                                                                    | Dat.f<br>Dat.g          |
| <b>Sort Tool</b>                                                     | \$_SortTool.addSortCriterion("selector",<br>"language", "text number qname",<br>"ascending descending",<br>"lowerfirst upper-first")<br>\$_SortTool.sort(\$collection) | Sor.s <sup>2</sup>      |

<sup>1</sup> Friendly date formats (such as MM/DD/YYYY) are available at  
<http://docs.oracle.com/javase/tutorial/i18n/format/dateFormat.html>.

<sup>2</sup> \$Sor.s can be used alone to include the addSortCriterion method in addition to the sort method.

## Variable Assignment Examples

```
${foo}  
${foo.value}  
${foo.bar()}  
A sentence with a $foovvariable.  
A sentence with a {foo}variable.
```

```
#set ( $size = "Big" )  
#set ( $name = "Ben" )  
#set ( $clock = "$size $name" )  
The clock is $size$name.....The clock is Big Ben.  
The clock is $clock.....The clock is Big Ben.
```

```
#set ( $dir = "www" )  
#set ( $page = "index.html" )  
#set ( $path = "$dir/$page" )
```

```
#set ( $value = $foo + 1 )  
#set ( $value = $bar - 1 )  
#set ( $value = $foo * $bar )  
#set ( $value = $foo / $bar )  
#set ( $foo = $bar % 5 )
```

## If-Conditional Examples

```
#if ( $foo )  
  <strong>Velocity!</strong>  
#end  
#if ( $foo < 10 )  
  <strong>Go North</strong>  
#elseif ( $foo == 10 )  
  <strong>Go East</strong>  
#elseif ( $bar == 11 )  
  <strong>Go South</strong>  
#else  
  <strong>Go West</strong>  
#end
```

|                                                           |                                                               |
|-----------------------------------------------------------|---------------------------------------------------------------|
| <code>#if ( \$foo ) #end</code>                           | <code>## False</code>                                         |
| <code>#if ( !\$foo ) #end</code>                          | <code>## True</code>                                          |
| <code>#if ( \$foo &amp;&amp; \$foo.value ) #end</code>    | <code>## False and \$foo.value will not be evaluated</code>   |
| <code>#if ( \$foo &amp;&amp; \$foo == "bar" ) #end</code> | <code>## False and \$foo == "bar" wil not be evaluated</code> |
| <code>#if ( \$foo1    \$foo2 ) #end</code>                | <code>## False \$foo1 and \$foo2 are not defined</code>       |

  

|                                                           |  |
|-----------------------------------------------------------|--|
| <code>#if ( \$foo &amp;&amp; \$bar )</code>               |  |
| <code>&lt;strong&gt; This AND that &lt;/strong&gt;</code> |  |
| <code>#end</code>                                         |  |
| <code>#if ( \$foo    \$bar )</code>                       |  |
| <code>&lt;strong&gt; This OR that &lt;/strong&gt;</code>  |  |
| <code>#end #if ( !\$foo )</code>                          |  |
| <code>&lt;strong&gt; This NOT that &lt;/strong&gt;</code> |  |
| <code>#end</code>                                         |  |

## For-each Conditional Examples

```
<ul>
#foreach ( $item in $list )
  <li>$item</li>
#end
</ul>
```

```
#foreach ( $foo in [1..5] )
  $100
#end
```

```
#foreach ( $bar in [2..-2] )
  $bar
#end
```

Note: More Velocity resources are available through the Velocity User Guide (<http://velocity.apache.org/engine/releases/velocity-1.7/user-guide.html>).