

References - Syntax

Most of the times, references look as follows:

<namespace:variablename>
or
<namespace:variablename=defaultvalue>

The latter example can be used to fall back to a default value in case a Reference cannot be resolved.

<notes:userdetails_internetaddress=>, for example, would fall back to an empty value if a user's internet email address can not be read from the public addressbook (e.g. when a user is offline).

<ini:ExitNotesPrompt=0>, for example, would return "0" (without quotes) if no such ini entry exists.



Referencing Actions

When referencing other Actions, MarvelClient allows you to specify a so called **type of execution**.

In the above examples, the colon (:) defines how a reference affects possible execution of an Action - in addition to using a colon, a reference also allows for other types of execution:

<namespace[type_of_execution]variableName>

There are three types of execution (all to be specified without brackets):

Types of Execution for Referencing Actions	
: (colon)	<p>= Run Once. If the referenced Action was already executed, re-use result. If the referenced Action has not yet executed, execute it.</p> <div> NOTE: Referencing an Action can only bring it forward within the same Runtype, but NOT from a later Runtype. If an Action was already executed at an earlier Runtype, the result can be re-used in any later Runtype(s).</div> <p><i>Example:</i> Action A and B both reference Action C using a colon (:). Action A will execute C, Action B will re-use the result from the previous execution of C. In this case, Actions A and B will get the same result from Action C.</p>
! (exclamation mark)	<p>= Run Always. (Re-)Execute Action whenever referenced.</p> <div> NOTE: Referencing an Action can only bring it forward within the same Runtype, but NOT from a later Runtype. If an Action was already executed at an earlier Runtype, the result can be re-used in any later Runtype(s).</div> <p><i>Example:</i> Action A and B both reference Action C using an exclamation mark (!). Action A will execute C, Action B will likewise again execute C. In this case, Actions A and B may get different results from Action C.</p>
(pipe)	<p>= Never Run. Use result only if already executed.</p> <p><i>Example:</i> Action A references result from Action B using a colon (=make sure it runs). Action C then references the result from Action B again using a (=use result from Action B if it ran). In case a user can not see or execute Action A, Action C will not run in this example, as the result from Action B cannot be resolved.</p>



NOTE that whilst referencing anything other than Actions (e.g. os: or notes:, env: or ini:) also allows for the use of all three types of execution, this does not affect re-calculating any results.

<notes!disk_client_free_mb>, for example, will not re-evaluate the free disk space but only return the free disk space in the Notes program directory from when the client was started.

In order to obtain a real-time result use a filesystem reference instead.

Naturally, ini: and env: references always return the corresponding result in real-time, even when using a colon (:) for the type of execution.

You are advised to only use a colon (:) for normal config variable references, as the behaviour for ! and | may change in future releases.