

YAML Encoding Keys

Language-Independent Type for

YAML™

Working Draft 200?-??-??

Oren Ben-Kiki <oren@ben-kiki.org>

Clark Evans <cce+yaml@clarkevans.com>

Brian Ingerson <ingy@ttul.org>

Copyright © 2001-2004 Oren Ben-KikiClark EvansBrian Ingerson
This document may be freely copied provided it is not modified.

Status

This specification is a release candidate and reflects consensus reached by members of the yaml-core mailing list. Any questions regarding this draft should be raised on this list at <http://lists.sourceforge.net/lists/listinfo/yaml-core>. With this release of the YAML specification, all further changes will be strictly limited to clarifications, or fixing bugs in productions. At this point, further enhancement or correction of logical flaws will be put off to the next version (1.1) of the YAML specification.

URI: **tag:yaml.org,2002:yaml**

Shorthand: **!yaml**

Kind: Scalar.

Canonical: N/A (single format).

Regexp: **!|&|***

Definition: Keys for encoding YAML in YAML.

YAML encoding keys are used to denote YAML structure information. The in-memory representation of these keys must be different from any value in any other type family. Specifically, these in-memory values must not be implemented as strings. Normally, the encoding keys should not be used in serialized YAML documents; the encoded YAML node is serialized instead.

Encoding is useful when a YAML processor encounters a valid YAML value of an unknown tag. For a schema-specific application, this is not different from encountering any other valid YAML document that does not satisfy the schema. Such an application may safely use a processor that rejects any value of any unknown tag, or discards the tag property with an appropriate warning and parses the value as if the property was not present.

For a schema-independent application (for example, a hypothetical YAML pretty print application), this is not an option. Processors used by such applications should encode the value instead. This may be done by wrapping the value in a mapping containing encoding keys. The “!” key denotes the unsupported tag. In some cases it may be ne-

cessary to encode anchors and alias nodes as well. The “&” and “*” keys are used for this purpose.

Encoding should be reversed on output, allowing the schema-independent application to safely round-trip any valid YAML document. In-memory, the encoded data may be accessed and manipulated in a standard way using the three basic data types (mapping, sequence and scalar), allowing limited processing to be applied to arbitrary YAML data.

Example 1. !yaml Examples

```
# The following node should NOT be serialized this way.  
encoded YAML node :  
!yaml '!' : '!type'  
!yaml '&' : 12  
= : value  
# The proper way to serialize the above node is as follows:  
node : !!type &12 value
```