



# YAML cheatsheet

This is a quick reference cheat sheet for understanding and writing YAML format configuration files.

## # Getting Started

### Introduction

YAML is a data serialisation language designed to be directly writable and readable by humans

- YAML does not allow the use of tabs
- Must be space between the element parts
- YAML is CASE sensitive
- End your YAML file with the `.yaml` or `.yml` extension
- YAML is a superset of JSON
- Ansible playbooks are YAML files

### Comments

```
# A single line comment example
# block level comment example
# comment line 1
# comment line 2
# comment line 3
```

### Inheritance

```
parent: &defaults
  a: 2
  b: 3
```

```
child:
  <<: *defaults
  b: 4
```

### ↓ Equivalent JSON

```
{
  "parent": {
    "a": 2,
    "b": 3
  },
  "child": {
    "a": 2,
    "b": 4
  }
}
```

### Scalar types

```
n1: 1          # integer
n2: 1.234      # float

s1: 'abc'       # string
s2: "abc"       # string
s3: abc         # string

b: false        # boolean type

d: 2015-04-05   # date type
```

### ↓ Equivalent JSON

```
{
  "n1": 1,
  "n2": 1.234,
  "s1": "abc",
  "s2": "abc",
  "s3": "abc",
  "b": false,
  "d": "2015-04-05"
}
```

Use spaces to indent. There must be space between the element parts.

### Variables

```
some_thing: &VAR_NAME foobar
other_thing: *VAR_NAME
```

### ↓ Equivalent JSON

```
{
  "some_thing": "foobar",
  "other_thing": "foobar"
}
```

### Multiline strings

```
description: |
  hello
  world
```

### ↓ Equivalent JSON

```
{"description": "hello\nworld\\n"}
```

### Folded strings

```
description: >
  hello
  world
```

### ↓ Equivalent JSON

```
{"description": "hello world\\n"}
```

### Two Documents

```
---
document: this is doc 1
---
document: this is doc 2
```

YAML uses `---` to separate directives from document content.

## # YAML Collections

### Sequence

```
- Mark McGwire
- Sammy Sosa
- Ken Griffey
```

### ↓ Equivalent JSON

```
[
  "Mark McGwire",
  "Sammy Sosa",
  "Ken Griffey"
]
```

### Mapping

```
hr: 65          # Home runs
avg: 0.278      # Batting average
rbi: 147        # Runs Batted In
```

### ↓ Equivalent JSON

```
{
  "hr": 65,
  "avg": 0.278,
  "rbi": 147
}
```

### Mapping to Sequences

```
attributes:
  - a1
  - a2
methods: [getter, setter]
```

### ↓ Equivalent JSON

```
{
  "attributes": ["a1", "a2"],
  "methods": ["getter", "setter"]
}
```

```

children:
  - name: Jimmy Smith
    age: 15
  - name: Jimmy Smith
    age: 15
  -
  - name: Sammy Sosa
    age: 12

```

↓ Equivalent JSON

```
{
  "children": [
    {"name": "Jimmy Smith", "age": 15},
    {"name": "Jimmy Smith", "age": 15},
    {"name": "Sammy Sosa", "age": 12}
  ]
}
```

```

my_sequences:
  - [1, 2, 3]
  - [4, 5, 6]
  -
  - 7
  - 8
  - 9
  - 0

```

↓ Equivalent JSON

```
{
  "my_sequences": [
    [1, 2, 3],
    [4, 5, 6],
    [7, 8, 9, 0]
  ]
}
```

```

Mark McGwire: {hr: 65, avg: 0.278}
Sammy Sosa: {
  hr: 63,
  avg: 0.288
}

↓ Equivalent JSON

```

```
{
  "Mark McGwire": {
    "hr": 65,
    "avg": 0.278
  },
  "Sammy Sosa": {
    "hr": 63,
    "avg": 0.288
  }
}
```

**Nested Collections**

```

Jack:
  id: 1
  name: Franc
  salary: 25000
  hobby:
    - a
    - b
  location: {country: "A", city: "A-A"}

```

↓ Equivalent JSON

```
{
  "Jack": {
    "id": 1,
    "name": "Franc",
    "salary": 25000,
    "hobby": ["a", "b"],
    "location": {
      "country": "A",
      "city": "A-A"
    }
  }
}
```

**Unordered Sets**

```

set1: !!set
  ? one
  ? two
set2: !!set {'one', 'two'}

```

↓ Equivalent JSON

```
{
  "set1": {"one": null, "two": null},
  "set2": {"one": null, "two": null}
}
```

Sets are represented as a Mapping where each key is associated with a null value

**Ordered Mappings**

```

ordered: !!omap
- Mark McGwire: 65
- Sammy Sosa: 63
- Ken Griffy: 58

```

↓ Equivalent JSON

```
{
  "ordered": [
    {"Mark McGwire": 65},
    {"Sammy Sosa": 63},
    {"Ken Griffy": 58}
  ]
}
```

## # YAML Reference

Terms	
• Sequences aka arrays or lists	
• Scalars aka strings or numbers	
• Mappings aka hashes or dictionaries	

Based on the YAML.org refcard.

Document indicators	
%	Directive indicator
---	Document header
...	Document terminator

Collection indicators	
?	Key indicator
:	Value indicator
-	Nested series entry indicator
/	Separate in-line branch entries
[]	Surround in-line series branch
{}	Surround in-line keyed branch

Alias Indicators	
&	Anchor property
*	Alias indicator

  

Scalar Indicators	
..	Surround in-line unescaped scalar
"	Surround in-line escaped scalar
	Block scalar indicator
>	Folded scalar indicator
-	Strip chomp modifier (  - or >-)
+	Keep chomp modifier (+ or >+)
1-9	Explicit indentation modifier (  1 or >2). Modifiers can be combined (  2-, >+1)

Special keys	
=	Default "value" mapping key
<<	Merge keys from another mapping
none	
!	Unspecified tag (automatically resolved by application)
!foo	Non-specific tag (by default, !!map/!!seq/!!str)
!!foo	Primary (by convention, means a local ! foo tag)
!h!foo	Secondary (by convention, means tag:yaml.org,2002:foo)
!<foo>	Requires %TAG !h! <prefix> (and then means <prefix>foo)
	Verbatim tag (always means foo)

Tag Property (usually unspecified)	
none	Unspecified tag (automatically resolved by application)
!	Non-specific tag (by default, !!map/!!seq/!!str)
!foo	Primary (by convention, means a local ! foo tag)
!!foo	Secondary (by convention, means tag:yaml.org,2002:foo)
!h!foo	Requires %TAG !h! <prefix> (and then means <prefix>foo)
!<foo>	Verbatim tag (always means foo)

Misc Indicators	
#	Throwaway comment indicator
`@	Both reserved for future use

Core types (default automatic tags)	
!!map	{Hash table, dictionary, mapping}
!!seq	{List, array, tuple, vector, sequence}

Escape Codes	
	Numeric
\x12	(8-bit)
\u1234	(16-bit)
\U00102030	(32-bit)

		<a href="#">More types</a>
<code>!!set</code>	<code>{cherries, plums, apples}</code>	
<code>!!omap</code>	<code>[one: 1, two: 2]</code>	

	<a href="#">More types</a>	Unicode string
<code>!!str</code>		

<a href="#">Language Independent Scalar Types</a>		
<code>{~, null}</code>	Null (no value).	
<code>[1234, 0x4D2, 02333]</code>	[Decimal int, Hexadecimal int, Octal int]	
<code>[1_230.15, 12.3015e+02]</code>	[Fixed float, Exponential float]	
<code>[.inf, -.Inf, .NAN]</code>	[Infinity (float), Negative, Not a number]	
<code>{Y, true, Yes, ON}</code>	Boolean true	
<code>{n, FALSE, No, off}</code>	Boolean false	

Protective		
<code>\\"()</code>	<code>\\"("")</code>	<code>\\"()</code>
<code>\&lt;TAB&gt; (TAB)</code>		
C		
<code>\0 (NUL)</code>	<code>\a (BEL)</code>	<code>\b (BS)</code>
<code>\f (FF)</code>	<code>\n (LF)</code>	<code>\r (CR)</code>
<code>\t (TAB)</code>	<code>\v (VTAB)</code>	
Additional		
<code>\e (ESC)</code>	<code>\_ (NBSP)</code>	<code>\N (NEL)</code>
<code>\L (LS)</code>	<code>\P (PS)</code>	

## # Also see

[YAML Reference Card](#) (yaml.org)  
[Learn X in Y minutes](#) (learnxinyminutes.com)  
[YAML lint online](#) (yamllint.com)



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