Yaml Cookbook

at the YamlForRuby site

Welcome to the Yaml Cookbook for Ruby. This version of the Yaml Cookbook focuses on the Ruby implementation of Yaml by comparing Yaml documents with their Ruby counterparts.

YAML(tm) is a readable text format for data structures. As you'll see below, YAML can handle many common data types and structures. And what YAML can't handle natively can be supported through flexible type families. For example, YAML for Ruby uses type families to support storage of regular expressions, ranges and object instances.

You can learn more about YAML at YAML.org or the YAML WikiWiki.

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Collections

Simple Sequence

Brief

You can specify a list in YAML by placing each member of the list on a new line with an opening dash. These lists are called sequences.

Yaml

Simple Sequence in YAML? - apple - banana - carrot

```
Simple Sequence in Ruby?
['apple', 'banana', 'carrot']
```

Nested Sequences

Brief

You can include a sequence within another sequence by giving the sequence an empty dash, followed by an indented list.

Yaml

```
Nested Sequences in YAML?

- foo
- bar
- baz
```

Ruby

```
Nested Sequences in Ruby?
[['foo', 'bar', 'baz']]
```

Mixed Sequences

Brief

Sequences can contain any YAML data, including strings and other sequences.

Yaml

```
Mixed Sequences in YAML?

- apple
- foo
- bar
- x123
- banana
- carrot
```

```
Mixed Sequences in Ruby?

['apple', ['foo', 'bar', 'x123'], 'banana', 'carrot']
```

Deeply Nested Sequences

Brief

Sequences can be nested even deeper, with each level of indentation representing a level of depth.

Yaml

```
Deeply Nested Sequences in YAML?

-
- uno
- dos
```

Ruby

```
Deeply Nested Sequences in Ruby?
[[['uno', 'dos']]]
```

Simple Mapping

Brief

You can add a keyed list (also known as a dictionary or hash) to your document by placing each member of the list on a new line, with a colon seperating the key from its value. In YAML, this type of list is called a mapping.

Yaml

```
Simple Mapping in YAML?

foo: whatever bar: stuff
```

Ruby

Sequence in a Mapping

Brief

A value in a mapping can be a sequence.

Yaml

```
Sequence in a Mapping in YAML?

foo: whatever bar:
- uno
- dos
```

Ruby

```
Sequence in a Mapping in Ruby?
{ 'foo' => 'whatever', 'bar' => [ 'uno', 'dos' ] }
```

Nested Mappings

Brief

A value in a mapping can be another mapping.

Yaml

```
Nested Mappings in YAML?

foo: whatever bar: fruit: apple name: steve sport: baseball
```

Ruby

```
Nested Mappings in Ruby?

{ 'foo' => 'whatever',
   'bar' => {
        'fruit' => 'apple',
        'name' => 'steve',
        'sport' => 'baseball'
    }
}
```

Mixed Mapping

Brief

A mapping can contain any assortment of mappings and sequences as values.

```
Mixed Mapping in YAML?

foo: whatever
bar:
   -
    fruit: apple
    name: steve
    sport: baseball
   - more
   -
    python: rocks
    perl: papers
    ruby: scissorses
```

Mapping-in-Sequence Shortcut

Brief

If you are adding a mapping to a sequence, you can place the mapping on the same line as the dash as a shortcut.

Yaml

```
Mapping-in-Sequence Shortcut in YAML?

- work on YAML.py:

- work on Store
```

```
Mapping-in-Sequence Shortcut in Ruby?
[ { 'work on YAML.py' => ['work on Store'] } ]
```

Sequence-in-Mapping Shortcut

Brief

The dash in a sequence counts as indentation, so you can add a sequence inside of a mapping without needing spaces as indentation.

Yaml

```
Sequence-in-Mapping Shortcut in YAML?

allow:
- 'localhost'
- '%.sourceforge.net'
- '%.freepan.org'
```

Ruby

```
Sequence-in-Mapping Shortcut in Ruby?
{ 'allow' => [ 'localhost', '%.sourceforge.net',
   '%.freepan.org' ] }
```

Merge key

Brief

A merge key ('<<') can be used in a mapping to insert other mappings. If the value associated with the merge key is a mapping, each of its key/value pairs is inserted into the current mapping.

Yaml

```
Merge key in YAML?

mapping:
   name: Joe
   job: Accountant
   <</pre>
```

```
Merge key in Ruby?

{ 'mapping' =>
    { 'name' => 'Joe',
        'job' => 'Accountant',
        'age' => 38
    }
}
```

Inline Collections

Simple Inline Array

Brief

Sequences can be contained on a single line, using the inline syntax. Separate each entry with commas and enclose in square brackets.

Yaml

```
Simple Inline Array in YAML?

---
seq: [a, b, c]
```

Ruby

Simple Inline Hash

Brief

Mapping can also be contained on a single line, using the inline syntax. Each keyvalue pair is separated by a colon, with a comma between each entry in the mapping. Enclose with curly braces.

Yaml

```
Simple Inline Hash in YAML?

---
hash: { name: Steve, foo: bar }
```

Ruby

```
Simple Inline Hash in Ruby?
{ 'hash' => { 'name' => 'Steve', 'foo' => 'bar' } }
```

Multi-line Inline Collections

Brief

Both inline sequences and inline mappings can span multiple lines, provided that you indent the additional lines.

Yaml

Ruby

```
Multi-line Inline Collections in Ruby?

{ 'languages' => [ 'Ruby', 'Perl', 'Python' ],
  'websites' => {
    'YAML' => 'yaml.org',
    'Ruby' => 'ruby-lang.org',
    'Python' => 'python.org',
    'Perl' => 'use.perl.org'
}
```

Commas in Values

Brief

List items in collections are delimited by commas, but there must be a space after each comma. This allows you to add numbers without quoting.

Yaml

```
Commas in Values in YAML?

attendances: [ 45,123, 70,000, 17,222 ]
```

```
Commas in Values in Ruby?
{ 'attendances' => [ 45123, 70000, 17222 ] }
```

Basic Types

Strings

Brief

Any group of characters beginning with an alphabetic or numeric character is a string, unless it belongs to one of the groups below (such as an Integer or Time).

Yaml

```
Strings in YAML?
--- String
```

Ruby

```
Strings in Ruby?

'String'
```

String characters

Brief

A string can contain any alphabetic or numeric character, along with many punctuation characters, including the period, dash, space, quotes, exclamation, and question mark.

Yaml

```
String characters in YAML?

- What's Yaml?
- It's for writing data structures in plain text.
- And?
- And what? That's not good enough for you?
- No, I mean, "And what about Yaml?"
- Oh, oh yeah. Uh.. Yaml for Ruby.
```

```
[
    "What's Yaml?",
    "It's for writing data structures in plain text.",
    "And?",
    "And what? That's not good enough for you?",
```

```
"No, I mean, \"And what about Yaml?\"",
"Oh, oh yeah. Uh.. Yaml for Ruby."
]
```

Indicators in Strings

Brief

Be careful using indicators in strings. In particular, the comma, colon, and pound sign must be used carefully.

Yaml

```
Indicators in Strings in YAML?

the colon followed by space is an indicator: but is a string:right here same for the pound sign: here we have it#in a string the comma can, honestly, be used in most cases: [ but not in, inline collections ]
```

Ruby

```
Indicators in Strings in Ruby?

{
   'the colon followed by space is an indicator' => 'but is
   a string:right here',
   'same for the pound sign' => 'here we have it#in a
   string',
   'the comma can, honestly, be used in most cases' => [
   'but not in', 'inline collections' ]
}
```

Forcing Strings

Brief

Any YAML type can be forced into a string using the explicit !str method.

Yaml

```
Forcing Strings in YAML?

date string: !str 2001-08-01
number string: !str 192
```

```
forcing Strings in Ruby?

{
  'date string' => '2001-08-01',
  'number string' => '192'
}
```

Single-quoted Strings

Brief

You can also enclose your strings within single quotes, which allows use of slashes, colons, and other indicators freely. Inside single quotes, you can represent a single quote in your string by using two single quotes next to each other.

Yaml

```
Single-quoted Strings in YAML?

all my favorite symbols: '#:!/%.)'
a few i hate: '&(*'
why do i hate them?: 'it''s very hard to explain'
```

Ruby

```
Single-quoted Strings in Ruby?

{
  'all my favorite symbols' => '#:!/%.)',
  'a few i hate' => '&(*',
  'why do i hate them?' => 'it\'s very hard to explain'
}
```

Double-quoted Strings

Brief

Enclosing strings in double quotes allows you to use escapings to represent ASCII and Unicode characters.

Yaml

```
Double-quoted Strings in YAML?
i know where i want my line breaks: "one here\nand another
here\n"
```

Multi-line Quoted Strings

Brief

Both single- and double-quoted strings may be carried on to new lines in your YAML document. They must be indented a step and indentation is interpreted as a single space.

Yaml

```
Multi-line Quoted Strings in YAML?

i want a long string: "so i'm going to
 let it go on and on to other lines
 until i end it with a quote."
```

Ruby

```
Multi-line Quoted Strings in Ruby?

{ 'i want a long string' => "so i'm going to " +
    "let it go on and on to other lines " +
    "until i end it with a quote."
}
```

Plain scalars

Brief

Unquoted strings may also span multiple lines, if they are free of YAML space indicators and indented.

```
Plain scalars in YAML?

- My little toe is broken in two places;
- I'm crazy to have skied this way;
- I'm not the craziest he's seen, since there was always the German guy
  who skied for 3 hours on a broken shin bone (just below the kneecap);
- Nevertheless, second place is respectable, and he doesn't recommend going for the record;
```

```
He's going to put my foot in plaster for a month;This would impair my skiing ability somewhat for the duration, as can be imagined.
```

```
Plain scalars in Ruby?

[
   "My little toe is broken in two places;",
   "I'm crazy to have skied this way;",
   "I'm not the craziest he's seen, since there was always "

        "the German guy who skied for 3 hours on a broken shin
   " +
        "bone (just below the kneecap);",
        "Nevertheless, second place is respectable, and he doesn't " +
        "recommend going for the record;",
        "He's going to put my foot in plaster for a month;",
        "This would impair my skiing ability somewhat for the duration, " +
        "as can be imagined."
]
```

Null

Brief

You can use the tilde '~' character for a null value.

Yaml

```
name: Mr. Show
hosted by: Bob and David
date of next season: ~
```

Ruby

```
Null in Ruby?

{
  'name' => 'Mr. Show',
  'hosted by' => 'Bob and David',
  'date of next season' => nil
}
```

Boolean

Brief

You can use 'true' and 'false' for boolean values.

Yaml

```
Boolean in YAML?

Is Gus a Liar?: true

Do I rely on Gus for Sustenance?: false
```

Ruby

```
Boolean in Ruby?

{
  'Is Gus a Liar?' => true,
  'Do I rely on Gus for Sustenance?' => false
}
```

Integers

Brief

An integer is a series of numbers, optionally starting with a positive or negative sign. Integers may also contain commas for readability.

Yaml

```
Integers in YAML?

zero: 0
simple: 12
one-thousand: 1,000
negative one-thousand: -1,000
```

Ruby

```
Integers in Ruby?

{
   'zero' => 0,
   'simple' => 12,
   'one-thousand' => 1000,
   'negative one-thousand' => -1000
}
```

Integers as Map Keys

An integer can be used a dictionary key.

Yaml

```
1: one
2: two
3: three
```

Ruby

```
Integers as Map Keys in Ruby?

{
    1 => 'one',
    2 => 'two',
    3 => 'three'
}
```

Floats

Brief

Floats are represented by numbers with decimals, allowing for scientific notation, as well as positive and negative infinity and "not a number."

Yaml

```
a simple float: 2.00 larger float: 1,000.09 scientific notation: 1.00009e+3
```

Ruby

```
floats in Ruby?

{
  'a simple float' => 2.0,
  'larger float' => 1000.09,
  'scientific notation' => 1000.09
}
```

Time

You can represent timestamps by using ISO8601 format, or a variation which allows spaces between the date, time and time zone.

Yaml

```
Time in YAML?

iso8601: 2001-12-14t21:59:43.10-05:00

space seperated: 2001-12-14 21:59:43.10 -05:00
```

Ruby

```
Time in Ruby?

{
   'iso8601' => YAML::mktime( 2001, 12, 14, 21, 59, 43,
   0.10, "-05:00"),
   'space seperated' => YAML::mktime( 2001, 12, 14, 21, 59,
   43, 0.10, "-05:00")
}
```

Date

Brief

A date can be represented by its year, month and day in ISO8601 order.

Yaml

```
Date in YAML?
--- 1976-07-31
```

Ruby

```
Date in Ruby?

Date.new( 1976, 7, 31 )
```

Blocks

Single ending newline

A pipe character, followed by an indented block of text is treated as a literal block, in which newlines are preserved throughout the block, including the final newline.

Yaml

```
Single ending newline in YAML?

---
this: |
Foo
Bar
```

Ruby

```
Single ending newline in Ruby?
{ 'this' => "Foo\nBar\n" }
```

The '+' indicator

Brief

The '+' indicator says to keep newlines at the end of text blocks.

Yaml

```
The '+' indicator in YAML?

normal: |
  extra new lines not kept

preserving: |+
  extra new lines are kept

dummy: value
```

Ruby

```
The '+' indicator in Ruby?

{
    'normal' => "extra new lines not kept\n",
    'preserving' => "extra new lines are kept\n\n\n",
    'dummy' => 'value'
}
```

Three trailing newlines in literals

To give you more control over how space is preserved in text blocks, YAML has the keep '+' and chomp '-' indicators. The keep indicator will preserve all ending newlines, while the chomp indicator will strip all ending newlines.

Yaml

```
Three trailing newlines in literals in YAML?

clipped: |
   This has one newline.

same as "clipped" above: "This has one newline.\n"

stripped: |-
   This has no newline.

same as "stripped" above: "This has no newline."

kept: |+
   This has four newlines.

same as "kept" above: "This has four newlines.\n\n\n\n"
```

Ruby

```
Three trailing newlines in literals in Ruby?

{
  'clipped' => "This has one newline.\n",
  'same as "clipped" above' => "This has one newline.\n",
  'stripped' => 'This has no newline.',
  'same as "stripped" above' => 'This has no newline.',
  'kept' => "This has four newlines.\n\n\n",
  'same as "kept" above' => "This has four
  newlines.\n\n\n\n"
}
```

Extra trailing newlines with spaces

Brief

Normally, only a single newline is kept from the end of a literal block, unless the keep '+' character is used in combination with the pipe. The following example will preserve all ending whitespace since the last line of both literal blocks contains spaces which extend past the indentation level.

```
Extra trailing newlines with spaces in YAML?

---
this: |
Foo

kept: |+
Foo
```

```
Extra trailing newlines with spaces in Ruby?
{ 'this' => "Foo\n\n \n",
  'kept' => "Foo\n\n \n" }
```

Folded Block in a Sequence

Brief

A greater-then character, followed by an indented block of text is treated as a folded block, in which lines of text separated by a single newline are concatenated as a single line.

Yaml

```
Folded Block in a Sequence in YAML?

---
- apple
- banana
- >
    can't you see
    the beauty of yaml?
    hmm
- dog
```

Ruby

```
Folded Block in a Sequence in Ruby?
[
    'apple',
    'banana',
    "can't you see the beauty of yaml? hmm\n",
    'dog'
]
```

Folded Block as a Mapping Value

Both literal and folded blocks can be used in collections, as values in a sequence or a mapping.

Yaml

```
Folded Block as a Mapping Value in YAML?

---
quote: >
    Mark McGwire's
    year was crippled
    by a knee injury.
source: espn
```

Ruby

```
Folded Block as a Mapping Value in Ruby?

{
    'quote' => "Mark McGwire's year was crippled by a knee
injury.\n",
    'source' => 'espn'
}
```

Three trailing newlines in folded blocks

Brief

The keep and chomp indicators can also be applied to folded blocks.

```
Three trailing newlines in folded blocks in YAML?

clipped: >
    This has one newline.

same as "clipped" above: "This has one newline.\n"

stripped: >-
    This has no newline.

same as "stripped" above: "This has no newline."

kept: >+
    This has four newlines.

same as "kept" above: "This has four newlines.\n\n\n\n"
```

```
Three trailing newlines in folded blocks in Ruby?

{
  'clipped' => "This has one newline.\n",
  'same as "clipped" above' => "This has one newline.\n",
  'stripped' => 'This has no newline.',
  'same as "stripped" above' => 'This has no newline.',
  'kept' => "This has four newlines.\n\n\n\n",
  'same as "kept" above' => "This has four
  newlines.\n\n\n\n"
}
```

Aliases and Anchors

Simple Alias Example

Brief

If you need to refer to the same item of data twice, you can give that item an alias. The alias is a plain string, starting with an ampersand. The item may then be referred to by the alias throughout your document by using an asterisk before the name of the alias. This is called an anchor.

Yaml

```
Simple Alias Example in YAML?

- &showell Steve
- Clark
- Brian
- Oren
- *showell
```

Ruby

```
simple Alias Example in Ruby?
showell = 'Steve'
[ showell, 'Clark', 'Brian', 'Oren', showell ]
```

Alias of a Mapping

Brief

An alias can be used on any item of data, including sequences, mappings, and other complex data types.

Yaml

```
Alias of a Mapping in YAML?

- &hello
    Meat: pork
    Starch: potato
- banana
- *hello
```

Ruby

```
Alias of a Mapping in Ruby?

hello = { 'Meat' => 'pork', 'Starch' => 'potato' }
[
  hello,
  'banana',
  hello
]
```

Documents

Trailing Document Separator

Brief

You can separate YAML documents with a string of three dashes.

Yaml

```
Trailing Document Separator in YAML?

- foo: 1
  bar: 2
  ---
  more: stuff
```

Ruby

```
Trailing Document Separator in Ruby?
[ { 'foo' => 1, 'bar' => 2 } ]
```

Leading Document Separator

You can explicity give an opening document separator to your YAML stream.

Yaml

```
Leading Document Separator in YAML?

---
- foo: 1
  bar: 2
---
more: stuff
```

Ruby

```
Leading Document Separator in Ruby?

[ { 'foo' => 1, 'bar' => 2 } ]
```

YAML Header

Brief

The opening separator can contain directives to the YAML parser, such as the version number.

Yaml

```
YAML Header in YAML?

--- %YAML:1.0
foo: 1
bar: 2
```

Ruby

```
YAML Header in Ruby?

y = Stream.new
y.add( { 'foo' => 1, 'bar' => 2 } )
```

Red Herring Document Separator

Brief

Separators included in blocks or strings are treated as blocks or strings, as the document separator should have no indentation preceding it.

```
Red Herring Document Separator in YAML?

foo: |
---
```

```
Red Herring Document Separator in Ruby?

{ 'foo' => "---\n" }
```

Multiple Document Separators in Block

Brief

This technique allows you to embed other YAML documents within literal blocks.

Yaml

```
Multiple Document Separators in Block in YAML?

foo: |
    ---
    foo: bar
    ---
    yo: baz
bar: |
    fooness
```

Ruby

```
Multiple Document Separators in Block in Ruby?

{
  'foo' => "---\nfoo: bar\n---\nyo: baz\n",
  'bar' => "fooness\n"
}
```

YAML For Ruby

Symbols

Brief

Ruby Symbols can be simply serialized using the !ruby/symbol transfer method, or the abbreviated !ruby/sym.

```
simple symbol: !ruby/symbol Simple
shortcut syntax: !ruby/sym Simple
symbols in seqs:
- !ruby/symbol ValOne
- !ruby/symbol ValTwo
- !ruby/symbol ValThree
symbols in maps:
- !ruby/symbol MapKey: !ruby/symbol MapValue
```

```
Symbols in Ruby?

{ 'simple symbol' => :Simple,
   'shortcut syntax' => :Simple,
   'symbols in seqs' => [ :ValOne, :ValTwo, :ValThree ],
   'symbols in maps' => [ { :MapKey => :MapValue } ]
}
```

Ranges

Brief

Ranges are serialized with the !ruby/range type family.

Yaml

```
normal range: !ruby/range 10..20
exclusive range: !ruby/range 11...20
negative range: !ruby/range -1..-5
? !ruby/range 0..40
: range as a map key
```

Ruby

```
Ranges in Ruby?

{ 'normal range' => (10..20),
  'exclusive range' => (11...20),
  'negative range' => (-1..-5),
  (0..40) => 'range as a map key'
}
```

Regexps

Brief

Regexps may be serialized to YAML, both its syntax and any modifiers.

Yaml

```
Regexps in YAML?

case-insensitive: !ruby/regexp "/George McFly/i"

complex: !ruby/regexp "/\A\"((?:[^\"]|\\\")+)\"/"

simple: !ruby/regexp '/a.b/'
```

Ruby

```
Regexps in Ruby?
{ 'simple' => /a.b/, 'complex' => /\A"((?:[^"]|\")+)"/,
   'case-insensitive' => /George McFly/i }
```

Perl Regexps

Brief

Regexps may also be imported from serialized Perl.

Yaml

```
Perl Regexps in YAML?

--- !perl/regexp:
REGEXP: "R[Uu][Bb][Yy]$"
MODIFIERS: i
```

Ruby

```
Perl Regexps in Ruby?

/R[Uu][Bb][Yy]$/i
```

Struct class

Brief

The Ruby Struct class is registered as a YAML builtin type through Ruby, so it can safely be serialized. To use it, first make sure you define your Struct with Struct::new. Then, you are able to serialize with Struct#to_yaml and unserialize from a YAML stream.

```
Struct class in YAML?
--- !ruby/struct:BookStruct
```

```
author: Yukihiro Matsumoto
title: Ruby in a Nutshell
year: 2002
isbn: 0-596-00214-9
```

```
book_struct = Struct::new( "BookStruct", :author, :title,
    :year, :isbn )
book_struct.new( "Yukihiro Matsumoto", "Ruby in a
Nutshell", 2002, "0-596-00214-9" )
```

Nested Structs

Brief

As with other YAML builtins, you may nest the Struct inside of other Structs or other data types.

Yaml

```
Nested Structs in YAML?
 - !ruby/struct:FoodStruct
   name: Nachos
   ingredients:
     - Mission Chips
     - !ruby/struct:FoodStruct
       name: Tostitos Nacho Cheese
       ingredients:
         - Milk and Enzymes
         - Jack Cheese
        - Some Volatile Chemicals
       taste: Angelic
     - Sour Cream
   taste: Zesty
 - !ruby/struct:FoodStruct
   name: Banana Cream Pie
   ingredients:
     - Bananas
     - Creamy Stuff
     - And Such
   taste: Puffy
```

```
Nested Structs in Ruby?

food_struct = Struct::new( "FoodStruct", :name,
:ingredients, :taste )
```

```
[
  food_struct.new( 'Nachos', [ 'Mission Chips',
     food_struct.new( 'Tostitos Nacho Cheese', [ 'Milk and
Enzymes', 'Jack Cheese', 'Some Volatile Chemicals' ],
  'Angelic' ),
     'Sour Cream' ], 'Zesty' ),
     food_struct.new( 'Banana Cream Pie', [ 'Bananas', 'Creamy
Stuff', 'And Such' ], 'Puffy' )
]
```

Objects

Brief

YAML has generic support for serializing objects from any class available in Ruby. If using the generic object serialization, no extra code is needed.

Yaml

```
Objects in YAML?

--- !ruby/object:YAML::Zoolander
name: Derek
look: Blue Steel
```

Ruby

```
class Zoolander
  attr_accessor :name, :look
  def initialize( look )
    @name = "Derek"
    @look = look
  end
  def ==( z )
    self.name == z.name and self.look == z.look
  end
end
Zoolander.new( "Blue Steel" )
```

Extending Kernel::Array

Brief

When extending the Array class, your instances of such a class will dump as YAML sequences, tagged with a class name.

```
--- !ruby/array:YAML::MyArray
- jacket
- sweater
- windbreaker
```

```
class MyArray < Kernel::Array; end
outerwear = MyArray.new
outerwear << 'jacket'
outerwear << 'sweater'
outerwear << 'windbreaker'
outerwear</pre>
```

Extending Kernel::Hash

Brief

When extending the Hash class, your instances of such a class will dump as YAML maps, tagged with a class name.

Yaml

```
Extending Kernel::Hash in YAML?

--- !ruby/hash:YAML::MyHash
Black Francis: Frank Black
Kim Deal: Breeders
Joey Santiago: Martinis
```

```
# Note that the @me attribute isn't dumped
# because the default to_yaml is trained
# to dump as a regular Hash.
class MyHash < Kernel::Hash
   attr_accessor :me
   def initialize
     @me = "Why"
   end
end
pixies = MyHash.new
pixies['Black Francis'] = 'Frank Black'
pixies['Kim Deal'] = 'Breeders'
pixies['Joey Santiago'] = 'Martinis'
pixies</pre>
```