

## Ruby trunk - Bug #12717

### Optional argument treated as kwarg

09/01/2016 02:36 PM - AMHOL (Andy Holland)

<b>Status:</b> Open	
<b>Priority:</b> Normal	
<b>Assignee:</b> matz (Yukihiro Matsumoto)	
<b>Target version:</b>	
<b>ruby -v:</b> 2.3.1	<b>Backport:</b> 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN

#### Description

When you define a method with an optional argument and keyword arguments (whether explicitly or with options splat) the defaulted argument can not take a hash argument, instead it is interpreted as keyword arguments:

```
class Foo
  def self.options(value = nil, **options)
    puts value.inspect
    puts options.inspect
  end

  def self.kwarg(value = nil, kw: nil)
    puts value.inspect
    puts kw.inspect
  end

  def self.splat(*args, kw: nil)
    puts args.inspect
    puts kw.inspect
  end
end
```

```
Foo.options({})
# nil
# {}
Foo.kwarg({})
# nil
# nil
Foo.splat({})
# []
# nil
```

```
Foo.options({ key: :value })
# nil
# {:key=>:value}
Foo.kwarg({ key: :value })
# ArgumentError: unknown keyword: key
Foo.splat({ key: :value })
# ArgumentError: unknown keyword: key
```

I would expect the output to be:

```
Foo.options({})
# {}
# {}
Foo.kwarg({})
# {}
# nil
Foo.splat({})
# [{}]
```

```
Foo.options({ key: :value })
```

```
# {:key=>:value}
# {}
Foo.kwarg({ key: :value })
# {:key=>:value}
# nil
Foo.splat({ key: :value })
# [{:key=>:value}]
# nil
```

#### Related issues:

Related to Ruby trunk - Feature #14183: "Real" keyword argument	Open
Has duplicate Ruby trunk - Bug #13336: Default Parameters don't work	Closed

#### History

##### #1 - 12/14/2017 07:24 AM - hsbt (Hiroshi SHIBATA)

- Related to Feature #14183: "Real" keyword argument added

##### #2 - 09/05/2018 03:22 PM - marcandre (Marc-Andre Lafortune)

I believe this is as designed.

As I stated previously (<https://bugs.ruby-lang.org/issues/11967#note-3>), my understanding is that:

- after all mandatory unnamed arguments are filled
- if the last remaining argument is hash-like
- and all its keys are symbols
- and the method called uses keyword arguments => then that parameter is used for keyword arguments.

I believe we should close this issue.

##### #3 - 09/05/2018 03:26 PM - marcandre (Marc-Andre Lafortune)

- Has duplicate Bug #13336: Default Parameters don't work added