

RUBY

bits

DSL PART 2

PRESS START

SPECIAL CASES

Tweet with just text

```
tweet_as 'markkendall' do  
  text 'This is a simple tweet'  
end
```



```
tweet_as 'markkendall', 'This is a simple tweet'
```



...this looks more natural

SPECIAL CASES

```
tweet_as 'markkendall', 'This is a simple tweet'
```



```
def tweet_as(user, &block)
  tweet = Tweet.new(user)
  tweet.instance_eval(&block)
  tweet.submit_to_twitter
end
```

old method

SPECIAL CASES

```
tweet_as 'markkendall', 'This is a simple tweet'
```



```
def tweet_as(user, text = nil, &block)
  tweet = Tweet.new(user)
  tweet.text(text) if text
  tweet.instance_eval(&block) if block_given?
  tweet.submit_to_twitter
end
```

..... optional text

..... optional block

SPECIAL CASES

```
tweet_as 'markkendall' do  
  mention 'codeschool'  
  text('I made a DSL!').hashtag('hooray').hashtag('ruby')  
  link 'http://codeschool.com'  
end
```

markkendall: @codeschool I made a DSL! #hooray #ruby <http://codeschool.com>

```
tweet_as 'markkendall', 'This is a simple tweet'
```

markkendall: This is a simple tweet

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ARRAY PARAMETERS

Let's allow for multiple mentions

```
tweet_as 'markkendall' do  
  mention 'codeschool'  
  mention 'envylabs'  
  text 'I made a DSL!'  
end
```



```
tweet_as 'markkendall' do  
  mention 'codeschool', 'envylabs'  
  text 'I made a DSL!'  
end
```



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ARRAY PARAMETERS

```
tweet_as 'markkendall' do
  mention 'codeschool', 'envylabs'
  text 'I made a DSL!'
end
```



```
def mention(user)
  @tweet << "@" + user
  self
end
```

old code

we want an array here

ARRAY PARAMETERS

```
tweet_as 'markkendall' do
  mention 'codeschool', 'envylabs'
  text 'I made a DSL!'
end
```



```
def mention(*users)
  users.each do |user|
    @tweet << "@" + user
  end
  self
end
```

puts all the parameters
into an array

DYNAMIC METHODS

Let's add support for tweet annotations

```
tweet_as 'markkendall' do
  mention 'codeschool', 'envylabs'
  text 'I made a DSL!'
  hashtag 'hooray'
  hashtag 'ruby'
  link 'http://codeschool.com'
  lat 28.415833
  lng -81.298889
  keywords 'Ruby', 'DSL'
end
```

creates a hash:

```
{
  lat: 28.415833,
  lng: -81.298889,
  keywords: "Ruby, DSL"
}
```

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DYNAMIC METHODS

```
class Tweet
  def initialize(user)
    @user = user
    @tweet = []
  end

  def submit_to_twitter
    tweet_text = @tweet.join(' ')
    puts "#{@user}: #{tweet_text}"
  end
end
```

old code

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DYNAMIC METHODS

```
class Tweet
  def initialize(user)
    @user = user
    @tweet = []
    @annotations = {}
  end

  def submit_to_twitter
    tweet_text = @tweet.join(' ')
    puts "#{@user}: #{tweet_text}"
    puts @annotations.inspect unless @annotations.empty?
  end

  def method_missing(method, *args)
    @annotations[method] = args.join(", ")
  end
end
```

method params become
hash values

unknown method names
become hash keys

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DYNAMIC METHODS

```
tweet_as 'markkendall' do
  mention 'codeschool', 'envylabs'
  text 'I made a DSL!'
  hashtag 'hooray'
  hashtag 'ruby'
  link 'http://codeschool.com'
  lat 28.415833
  lng -81.298889
  keywords 'Ruby', 'DSL'
end
```

```
markkendall: @codeschool @envylabs I made a DSL! #hooray #ruby http://codeschool.com
{:lat=>"28.415833", :lng=>"-81.298889", :keywords=>"Ruby, DSL"}
```



ERROR HANDLING

Let's check to make sure the tweet isn't too long

```
def submit_to_twitter
  tweet_text = @tweet.join(' ')
  puts "#{@user}: #{tweet_text}"
  puts @annotations.inspect unless @annotations.empty?
end
```

old code

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ERROR HANDLING

```
def submit_to_twitter
  tweet_text = @tweet.join(' ')
  if tweet_text.length <= 140
    puts "#{@user}: #{tweet_text}"
    puts @annotations.inspect unless @annotations.empty?
  else
    raise "Your tweet is too long."
  end
end
```

raise an exception
with a descriptive message

ERROR HANDLING

```
tweet_as 'markkendall' do
  text "This tweet is way too long and Twitter won't know how to handle it \
because Twitter imposes a limit on the number of characters in a tweet and \
this is a run-on sentence."
  hashtag 'lol'
  hashtag 'twitter'
end
```

in `submit_to_twitter': Your tweet is too long. (RuntimeError)

