RubyによるRSSビューア
…を装った新添付ライブラリの宣伝

ただただし

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▶ このテーマのポイント

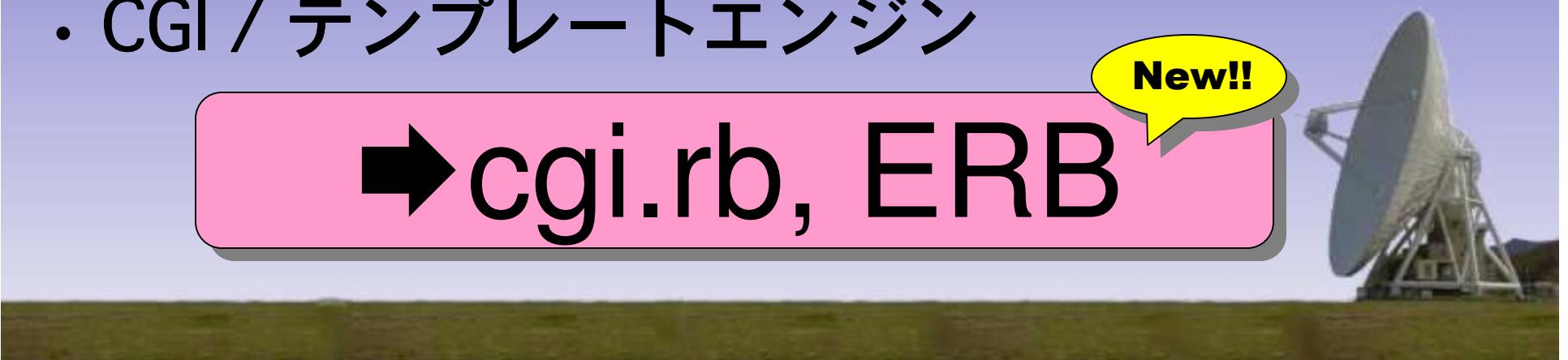- HTTPクライアント

  ➡net/http

- XML parser

  ➡REXML   **New!!**

- CGI / テンプレートエンジン

  ➡cgi.rb, ERB   **New!!**

▶ net/http

```ruby
require 'net/http'

class RSSViewer
  def initialize( proxy = ENV['HTTP_PROXY'] )
    if proxy then
      @proxy_host, @proxy_port = proxy.split( /:/, 2 )
    end
  end

  def get_rss( uri )
    Net::HTTP::Proxy( @proxy_host, @proxy_port ).
      get( URI::parse( uri ) )
  end
(略)
```

REXML(1)

```ruby
require 'rexml/document'

def rss2html( rss, tmpl )
  doc = REXML::Document::new( rss ).root
  @channels = doc.elements.to_a( '//channel' )
  @items = {}
  doc.elements.to_a( '//item' ).each do |item|
    @items[item.attributes['rdf:about']] =
        [item.elements['title'].text,
        item.elements['link'].text]
  end
  ERB::new( tmpl ).result( binding )
end
```

REXML(2)

```ruby
def each_channel
  @channels.each do |ch|
    yield ch.elements['title'].text,
      ch.elements['link'].text,
      ch.elements['items'].elements['rdf:Seq'].
        elements.to_a( 'rdf:li' )
  end
end

def each_item( items )
  items.each do |item|
    res = item.attributes['rdf:resource']
    yield @items[res]
  end
end
```

▶ ERB

```
require 'erb'
(略)
  print viewer.rss2html( rss, DATA.read )
(略)
__END__
(略)
% each_channel do |title, uri, items|
    <h2><a href="<%=uri%>"><%=title%></a></h2>
    <ul>
%   each_item( items ) do |title, uri|
      <li><a href="<%=uri%>"><%=title%></a></li>
%   end
    </ul>
% end
```

▶ rssライブラリを使うと...

```
(略)
uri = 'http://slashdot.jp/slashdot.rdf'
txt = Net::HTTP::get( URI::parse( uri ) )
rss = RSS::Parser.parse( txt, false )
print CGI::new.header( 'charset' => 'UTF-8' )
print ERB::new( DATA.read, nil, '%' ).result( binding )
__END__
(略)
<h2>
<a href="<%=rss.channel.link%>"><%=rss.channel.title%></a>
</h2>
<ul>
% rss.items.each do |item|
    <li><a href="<%= item.link %>"><%= item.title %></a></li>
% end
</ul>
</body>
</html>
```