

Syntaxanalyse von URL

Syntaxanalyse von URL mit die Grammatik

WWW = Σ URI

0 files,

N DBs

British Broadcasting Corporation

/

/radio/

/radio

/tv/

/weather/

/worldservice/news/

/worldservice/languages/

/worldservice/programmes/newshour.shtml

Deutsche Welle

/dw/0,,298,00.html

/dw/article/0,2144,3116297,00.html

/popups/popup_lupe/0,,1123341,00.html

/image/0,,1336753_1,00.jpg

British Broadcasting Corporation

/

/radio/

/radio

/tv/

/weather/

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/worldservice/programmes/newshour.shtml

British Broadcasting Corporation

/

[/radio/](#)

[/radio](#)

[/tv/](#)

[/weather/](#)

[/worldservice/news/](#)

[/worldservice/languages/](#)

[/worldservice/programmes/newshour.shtml](#)

Kontrollstrukturen

mit `if`?

~~Kontrollstrukturen~~

~~mit if?~~

split /\s+/?

~~/split/??/~~

Regulären
Ausdrücken?

BNF-Grammatik!

Ganz und Teil

```
uri          : home          eof
              | division     eof
              | section       eof
              | article       eof
```

Ganz und Teil

```
word      : /[a-z0-9_-]+/i
ext       : '.' /[a-z]+/
S         : m{/+}
eof       : /\Z/
```

Definition

```
home      : S
division  : S 'worldservice' S
           'languages' S(?)
           | S word S(?)
section   : division word S(?)
article   : section word ext
```

Definition

```
home      : S
division  : S 'worldservice' S
           'languages' S(?)
           | S word S(?)
section   : division word S(?)
article   : section word ext
```

Gebrauch

```
use Parse::RecDescent;
```

Gebrauch

```
use Parse::RecDescent;  
my $parser = new Parse::RecDescent($grammar);
```

Gebrauch

```
use Parse::RecDescent;  
my $parser = new Parse::RecDescent($grammar);  
  
my $parsed = $parser->uri($uri);
```

Gebrauch

```
use Parse::RecDescent;  
my $parser = new Parse::RecDescent($grammar);  
  
my $parsed = $parser->uri($uri);
```

Drei Zeilen

Aktion

```
section      : division word S(?) {  
              $::section = $item{word}  
            }
```

```
article     : section word ext {  
              $::article = $item{word}  
            }
```

Aktion

```
section      : division word S(?) {  
                $::section = $item{word}  
            }  
}
```

```
article      : section word ext {  
                $::article = $item{word}  
            }  
}
```

Variablen

```
uri      : home      eof {  
          $::type = 'home'  
        }  
  
        | division eof {  
          $::type = 'division'  
        }
```

Na endlich!

```
my $page = PageFactory($::type);
```

Wo?

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2008

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Nächstes Mal

Syntaxanalyse von URL

mit die

Grammatik von Perl 6

Beweis

$$\text{WWW} = \sum \text{URI}$$

```
#!/usr/bin/perl5.10
```

```
use feature 'say';
```

```
use strict;
```

```
$a = <>; # Eingabe 'URI'
```

```
chomp $a;
```

```
$b ^= ord for split //, $a;
```

```
s//(chr reverse split \/\/, $b)/e;
```

```
say $_ x length $a; # Ausgabe 'WWW'
```