PaperWare.org



133 line nordic design custom search syntax.

## searches.txt

YouTube	(yt)	https://www.youtube.com/results?search_query=michael+jackson
Bing	(bi)	http://www.bing.com/search?q=michael+jackson&qs=n&form=QBLH&sp=-1&pq=michael+jackson≻=8-15
PowerShell Tutorials	(ps)	do powershell tutorial yt
Thunderstruck AC/DC	(ac)	do thunderstruck yt
YouTube Podcast Search Default Search		do podcast yt do bi
My First Custom Parser My First Script		my_custom_parser.py test.txt

Open In Chrome tab (chr) chrome.py Open in Firefox tab (fox) fox.py

```
# Do 3.5 (January 6 2017)
# What's New: Debugging parse_search_url()
# Next Action: Decide where to list -> str regarding piping
import re, sys, importlib
def modules():
      file_lines = [line.rstrip() for line in open('searches.txt')]
return(file_lines)
def build_command_dict():
     c_dict = {}
search_file_lines = modules()
      for search_line in search_file_lines:
            search_line = search_line.rstrip()
m = re.search('\(([a-zA_Z0_9]+)\)', search_line)
# parse searches.txt line for command variable: "- cmd -"
           if m:
    do_command = m.group(1)
    command_name = search_line.split(" (")[0]
    search_url = search_line.split(" ")[-1]
                                                                                         # get do command from match above
# get command name from first part of " - " split
# get search URL from last part of " - " split
                  c_dict[do_command] = (command_name, search_url) # add to result dictionary
      return(c_dict)
command_dict = build_command_dict()
{\tt def\ parse\_command\_string(do\_command\_string):}
      do_search_terms = do_command_string.split(" ")
do_commands = build_command_dict()
     new_search_terms = []
      do_commands_found = []
for element in do_search_terms:
            if element in do_commands:
    do_commands_found.append(element)
            else:
                  new_search_terms.append(element)
      result_dict = {}
result_dict['search_terms'] = new_search_terms
result_dict['commands'] = do_commands_found
      return(result_dict)
def parse_search_url(url_string, search_term):
      url_string = url_string.lstrip()
      link_match = re.search('http', url_string)  # test for search URL
do_match = re.search('^do ', url_string)  # test for do command
variable_match = re.search('\s\_\s', url_string)  # test for variable character _
parser_match = re.search('\s\_\s', url_string)  # test for custom_parser.py
script_match = re.search('[a-zA-Z]\.txt', url_string)  # test for script_file.txt
      if script_match:
            result = parse script(url string)
            return(result)
            custom_parser_name = url_string[:-3]
            result = use_custom_parser(custom_parser_name, search_term)
            return(result)
      if variable_match:
            padded_search_term = " " + search_term + " "
url_string = url_string.replace(" __ ", padded_search_term)
            m = re.search('([Mm]ichael(.+?)[Jj]ackson)', url_string)
if m:
                  match_string = m.group(1)
separating_char = m.group(2)
                  new_search_term = search_term.replace(' ', separating_char)
new_string = url_string.replace(match_string, new_search_term)
                  return(new_string)
      if do_match:
            m = re.search('do (.+?$)', url_string)
string_without_do = m.group(1)
                                                                                 # remove 'do ' part of string
            result = launch(string_without_do)
            return(result[0])
     else:
    print("url_string didn't get categorized by any filter, in parse_search_url(): " + url_string)
```

```
def launch(do string):
     commands = command_dict
elements = parse_command_string(do_string)
search_terms = elements['search_terms']
command_terms = elements['commands']
search_string = ""
     for word in search_terms:
    search_string += word + " "
     search_string = search_string.rstrip()
     result_list = []
     if command_terms == []:
    command_terms.append('oo')
           try: last_command = command_terms.pop(\theta)
                                                                           # get first argument command
           except:
last_command = 'oo'
           try:
    url = commands[last_command][-1]
                                                                            # use URL corresponding to last_command from commands dict
           except:
print("Bad command?")
           result = parse_search_url(url, search_string)  # put search term(s) from do_string result_list.append(result)  # into search URL from searches.txxt
def argv_to_string():
     arg_list = sys.argv[1:]
     arg_string = ""
for arg in arg_list:
    arg_string += arg + " "
     arg_string2 = arg_string.rstrip()
     return arg_string2
def use_custom_parser(parser_module_name, arg_string):
     custom_parser = importlib.import_module(parser_module_name)
result = custom_parser.run(arg_string)
     return(result)
def printify(result_passed):
     for item in result_passed:
    print(item)
def parse_script(filename):
     f = open(filename)
lines = f.readlines()
     result_list = []
for line in lines:
    strip_line = line.rstrip()
    do_result = launch(strip_line)
    result_list.append(do_result[0])
     return(result_list)
def parse_pipe(do_string):
     elements = do_string.split(",")
result = ""
           do_string_build = result + elements.pop(0)
result = launch(do_string_build)[0]
     return(result)
def go(do_string):
     pipe_match = re.search('\,', do_string)
     if pipe_match:
           result = parse_pipe(do_string)
return(result)
           e:
    result = launch(do_string)
    return(result)
if __name__ == '__main__':
     arg_string = argv_to_string()
     result = go(arg_string)
     if isinstance(result, list):
    result = printify(result)
else:
    print(result)
```