

133 line nordic design custom search syntax.

## searches.txt

YouTube
Bing (yt) https://www.youtube.com/results?search\_query=michael+jackson
http://www.bing.com/search?q=michael+jackson&qs=n&form=QBLH&sp=-1&pq=michael+jackson&sc=8-15

PowerShell Tutorials
Thunderstruck AC/DC (ps) do powershell tutorial yt
do thunderstruck yt

YouTube Podcast Search
Default Search (pod) do \_\_ podcast yt
do \_\_ bi

My First Custom Parser
My First Script (scr) test.txt
Second Waltz Parser (prs) parser.py

Open In Chrome tab
Open in Firefox tab (chr) chrome.py
(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 -"
                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()
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()
     if script_match:
          result = parse_script(url_string)
          return(result)
     if parser_match:
          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])
          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')
      while command_terms:
            try:
    last_command = command_terms.pop(0)
                                                                               # 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?")
            \begin{tabular}{ll} result = parse\_search\_url(url, search\_string) & \# put search term(s) from do\_string \\ result\_list.append(result) & \# into search URL from searches.txxt \\ \end{tabular}
      return(result_list)
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
{\tt 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 = ""
      while elements:
            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)
            result = parse_pipe(do_string)
return(result)
      else:
    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)
```