
Subject: Re: relative path from one absolute path to another?
Posted by born.in.sssr@gmail.co on Tue, 08 Aug 2006 21:22:23 GMT
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Thank you all!

Here is my function, which is closer to greg michael idea but also uses some interesting constructs from JD Smith:

```
;+
; NAME:
; FILE_RELPATH
; PURPOSE:
; Relative path from one absolute path to another
; CALLING SEQUENCE:
; rel_path = FILE_RELPATH(file, source_path)
; INPUTS:
; file, source_path: absolute path names
; if source_path is not given, then the current directory is
; taken as the source_path
; OUTPUTS:
; Relative path from source_path to file
; RESTRICTIONS:
; file and source_path should be reachable by file system
; MODIFICATION HISTORY:
; 08/2006 Maxim [Yossarian] Neumann
;-
```

```
function FILE_RELPATH, file, source
  sep = path_sep()
  if n_elements(source) eq 0 then source = '.'
  to = strsplit(file_search(file, /FULLY_QUALIFY_PATH), sep, /EXTRACT)
  from = strsplit(file_search(source, /FULLY_QUALIFY_PATH), sep, /EXTRACT)
  n_to = n_elements(to) & n_from = n_elements(from)
  if n_from eq 1 && from[0] eq " then n_from=0
  ind = where(from ne to, cnt)
  same = cnt eq 0 ? n_from<n_to : ind[0]
  if same eq n_from then res = './' $
  else res = strjoin(replicate('..'+sep, n_from-same))
  if same ne n_to then res += strjoin(to[same:*], sep)
  return, res
end
```
