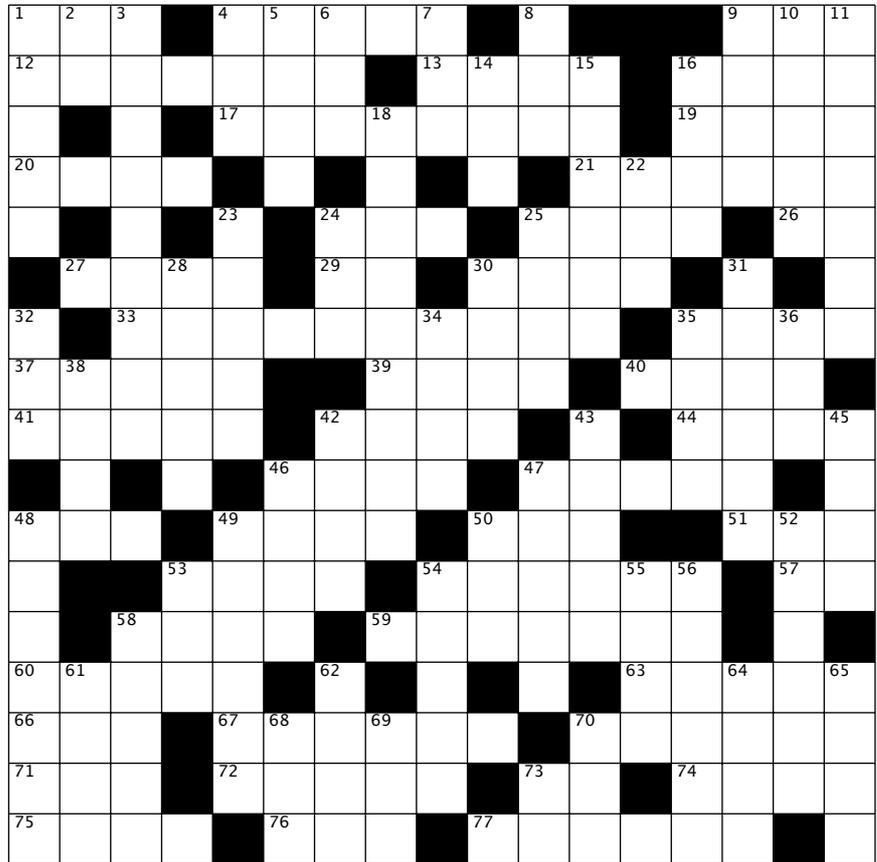


A first topology crossword puzzle Created by Jean Goubault-Larrecq

ACROSS

1. Continuous surjective map, in Top.
4. Heine-__: criterion for compactness (Prop. 3.3.7)
9. A category with application and curriffication (Sec. 5.5.3)
12. Feature of a subset that meets every non-empty open (Def. 4.1.29)
13. Favorite dog, for surfers?
16. A discontinuity... but not in topology
17. Every subset is open (Example 4.1.15)
19. __ 51
20. One who is left adjoint (Sec. 5.5.2)
21. Where closed sets can be separated (Def. 4.1.22)
24. Greatest lower bound
25. Eccentric
26. Titanium
27. Stick it in your ear
29. Small duration
30. Finished
33. Directed families of such deflations are needed in bifinite domains (Def. 9.6.8)
35. Pealed
37. Number of deadly sins
39. Not any
40. __-dimensional: Stone spaces, or ultrametric spaces, e.g. (Ex. 4.1.34)
41. What one needs to solve an exercise
42. A lot
44. Easter favorites
46. The Zariski topology of its spectrum is spectral (Ex. 9.5.38)
47. A family of subsets, closed under unions of chains (Prop. 6.3.17)
48. Contains elements
49. A quick way of losing weight?
50. Doctor, time lord
51. 2000 or 2240 pounds avoirdupois
53. Bourbaki-__, a fixed point existence theorem (Thm. 2.3.1)
54. __-Urysohn extension theorem (Ex. 6.3.23)
57. English-speaking country
58. A computer scientist's tool to deal with nails?
59. Insertion theorem, first part (Ex. 6.3.21)
60. Element of a space
63. They are complete according to Cauchy, but not according to Scott
66. Linux Kernel in a Nutshell
67. __ continuous: assumption in first Arzela-Ascoli-Kelley theorem (Thm. 5.4.38)
70. Published once a year
71. Before, to the poet
72. __'s theorem: a complete lattice is completely distributive iff prime-continuous (Ex. 8.3.16)



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73. Kansas Auntie
 74. Hausdorff
 75. Lightly cooked
 76. Young child
 77. Form of vocal music
- DOWN**
1. Build
 2. Sch. class
 3. The topological spaces with this property are the continuous complete lattices (Ex. 9.3.9)
 4. Tender
 5. Of the ear
 6. Royal Yacht Squadron
 7. One of the two main classes of routing protocols used in packet switching networks
 8. Strongly rhythmical, as in jazz
 9. Underground storage organ present in plants
 10. Deception
 11. Useless activity in Newcastle?
 14. Stroke affectionately
 15. Renter
 16. Queen of Scots
 18. X is __ iff compact-open and Isbell coincide on $[X \rightarrow S]$ (Ex. 5.4.12)
 22. First after 40-across
 23. Complements of closed
 24. Mischievous child
 25. Domain
 28. Downward-closed and directed (Def. 5.1.45)
 30. Refuse access to
 31. One end of a morphism (Sec. 4.12)
 32. Next-to-last, to Greeks
 34. Second part of 59-across
 35. Part of a movie
 36. Christmas drink
 38. In a graph (Sec. 4.12)
 42. Haze
 43. Author of theorem in 3-down
 45. Everything but the kitchen __
 46. Assign a standard to
 47. Aardman studios' Shaun, e.g.
 48. Part of a subnet (Def. 4.7.24)
 49. Upward-closed, and closed under finite infs (Def. 8.1.9)
 50. Mental sharpness
 52. Ban
 53. Aim of player alpha in the strong Choquet game (Sec. 7.6.1)
 54. Score
 55. __'s Lemma: in inductive posets, maximal elements exist (Thm. 2.4.2)
 56. Things that happen
 58. With more opens (Sec. 4.1.1)
 61. Gumbo
 62. Biggest little city in the World
 64. Car
 65. __ but sure
 68. Large tank
 69. Central to Moore-Smith convergence (Def. 4.7.2)
 70. So __: me too
 73. Queen Elizabeth