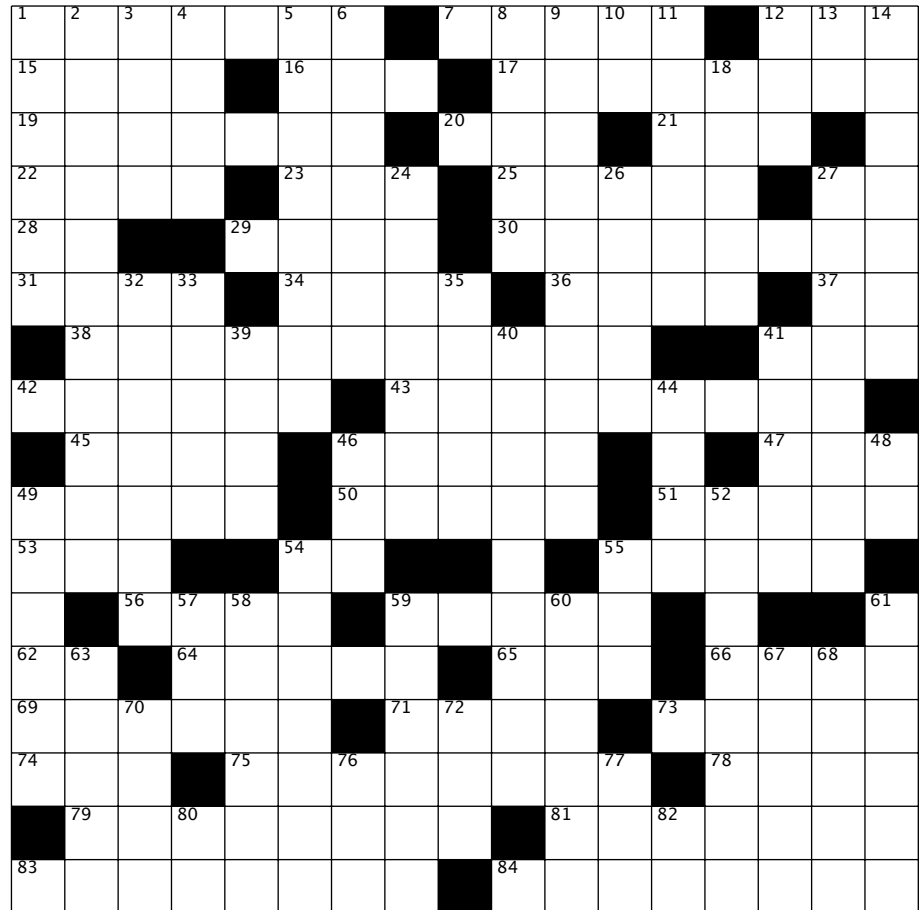


A fourth topology crossword puzzle Created by Jean Goubault-Larrecq

ACROSS

1. Some functor (Sec. 4.12.2)
7. Turn
12. Coach
15. Former oil brand
16. 100% proof
17. The book is one
19. Some colimit (Sec. 4.12.3)
20. leoh Ming of the pyramid entrance to the Louvre
21. Negation
22. Surjective
23. Christogram
25. Valuable thing
27. Crossroads of America, for short
28. A small amount of silicon?
29. Hit
30. One tended to?
31. Literary evenings
34. de Castro, posthumous queen of Portugal
36. Ten to the minus nine
37. Santa of New Mexico
38. Result of right adjoint to $_ \times X$ (Sec. 5.5.1)
41. Polite address
42. Express admiration
43. One-element set
45. QMet, for one (Fact 6.6.16)
46. Stanza
47. Receptacle
49. Records
50. Donkeys
51. Minotaur island
53. Quantifier, dual to exists
54. Zinc, to Mendeleev
55. In what place?
56. Jaguarundi
59. Topology that makes a compact pospace out of stably compact space (Sec. 9.1.2)
62. Gallium to the chemist
64. Judicial capital of Bolivia
65. Morphism with an inverse (Section 4.12)
66. ___ structure, wqo whose sobrification is not a wqo (Ex. 9.7.25)
69. Large ___, familiar phrase in Moore-Smith convergence (Def. 4.7.2)
71. Opposite of 69-across, to Dieudonne
73. Horse-drawn vehicle
74. ___ of the iceberg
75. In Q (Sec. 2.2)
78. This is just one, but there are many others in this puzzle
79. What opens do to points in T_2 spaces (Def. 4.1.12)



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|--|---|
| <ol style="list-style-type: none"> 81. Essential ingredients of open balls (Sec. 3.2) 83. Find one's DNA 84. Instrument preventing blood flow | <ol style="list-style-type: none"> 40. Katetov-Tong ___ Theorem (Ex. 6.3.21) 41. Dual to spatial (Chap. 8) 44. Engrave 46. Frank ___ Breugel, coinventor of Yoneda-completeness (Sec. 7.4) 48. Hoboken to Bronx dir. 49. Opposite to source (Sec. 4.12) 52. Quotients that inherit many properties of the original space (Sec. 4.10) 54. ___ Taylor, 12th president of the USA 55. Television doctor 57. Penguins' sch. 58. Kid 59. Small and attractive 60. One whose sobrification is a continuous dcpo (Corl. 8.3.44) 61. ___ Abe 63. Mediterranean purveyor of aromatic seeds 67. Shoelace tip 68. Egyptian corn 70. Complement of closed (Sec. 4.1) 72. Female production when hard, male when soft 76. Faucet 77. It reached the moon 80. Italian river 82. Negation |
|--|---|
- DOWN**
1. Remove from office
 2. Can be said of 53-across
 3. Short helper
 4. Ultimate Frisbee move
 5. Like an eagle
 6. Simplest alkane
 8. Directed and downward closed (Def. 5.1.45)
 9. Neighborhoods, to Bourbaki
 10. In the work cited
 11. "Turn on, ___, drop out", famous Tim Leary utterance
 12. Risk some money
 13. Successor to the LN, est. 1945
 14. Missile or jellyfish, e.g.
 18. Recurring musical phrase
 24. Faerie Queen author
 26. Whose objects form a set, as category (Sec. 4.12)
 27. Cannot be written $\{x_1, \dots, x_n\}$ for any n (Sec. 2.2)
 32. For ___
 33. Relish
 35. Mixes thoroughly
 39. Some causes for discontinuity, for short (Fig. 3.9 (d))