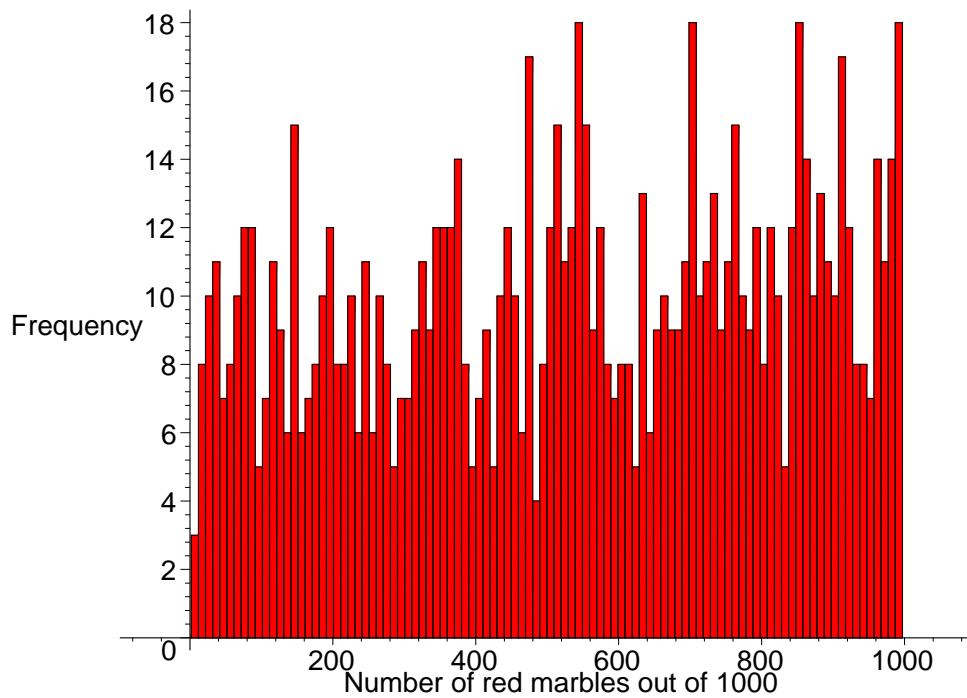


```
> with(stats):  
  with(stats[statplots]):  
The data in a list; 1000 trials were taken from the polyaurn3.pl Perl script.  
> data := [753, 561, 415, 28, 964, 63, 704, 82, 241, 766, 811,  
  900, 359, 960, 839, 597, 916, 2, 578, 790, 861, 689, 320,  
  631, 551, 881, 714, 455, 891, 703, 125, 546, 176, 881, 976,  
  432, 273, 448, 660, 230, 815, 566, 439, 56, 195, 410, 706,  
  973, 630, 370, 702, 982, 177, 491, 929, 610, 89, 305, 730,  
  476, 984, 440, 514, 90, 960, 959, 146, 917, 665, 689, 802,  
  375, 284, 762, 695, 381, 505, 848, 803, 371, 604, 141, 633,  
  859, 871, 708, 604, 140, 797, 289, 675, 850, 287, 392, 227,  
  714, 84, 171, 840, 947, 866, 496, 936, 767, 937, 220, 961,  
  758, 518, 226, 737, 760, 90, 881, 629, 927, 416, 54, 793,  
  195, 785, 556, 770, 307, 520, 597, 471, 856, 243, 818, 905,  
  113, 677, 864, 859, 349, 637, 232, 330, 800, 811, 992, 886,  
  254, 17, 673, 979, 367, 728, 249, 415, 900, 914, 454, 495,  
  270, 689, 192, 865, 527, 782, 143, 24, 65, 307, 332, 619,  
  871, 636, 533, 411, 507, 229, 245, 63, 767, 876, 70, 268,  
  408, 858, 961, 55, 553, 538, 981, 559, 656, 232, 963, 448,  
  795, 330, 574, 956, 790, 475, 996, 373, 513, 716, 968, 139,  
  579, 57, 641, 817, 104, 156, 799, 784, 549, 736, 784, 451,  
  943, 744, 794, 682, 870, 425, 592, 156, 841, 228, 327, 916,  
  479, 351, 163, 129, 699, 885, 733, 689, 635, 682, 437, 980,  
  736, 155, 126, 461, 439, 550, 513, 439, 158, 950, 143, 590,  
  543, 747, 378, 717, 631, 763, 792, 260, 964, 899, 525, 306,  
  281, 407, 370, 917, 36, 458, 664, 849, 855, 978, 503, 14,  
  975, 381, 476, 839, 707, 942, 761, 868, 25, 952, 206, 321,  
  382, 192, 835, 208, 79, 20, 760, 508, 574, 674, 81, 539, 506,  
  485, 901, 361, 922, 898, 915, 72, 959, 925, 501, 150, 925,  
  887, 475, 864, 523, 453, 606, 684, 197, 10, 601, 189, 211,  
  74, 208, 312, 399, 992, 726, 566, 200, 184, 148, 183, 16,  
  652, 181, 440, 319, 611, 702, 593, 739, 705, 46, 329, 770,  
  844, 853, 654, 150, 552, 412, 719, 375, 952, 142, 547, 842,  
  505, 807, 822, 783, 994, 268, 178, 519, 125, 551, 345, 80,  
  761, 76, 131, 893, 91, 465, 920, 730, 585, 327, 280, 531,  
  350, 670, 22, 299, 461, 78, 501, 862, 138, 47, 933, 551, 893,  
  585, 809, 531, 263, 997, 958, 809, 856, 971, 48, 690, 75,  
  992, 219, 609, 209, 184, 428, 268, 926, 960, 994, 427, 341,  
  274, 74, 151, 280, 924, 383, 442, 641, 621, 109, 867, 825,  
  912, 530, 751, 264, 264, 304, 549, 886, 995, 136, 895, 566,  
  812, 888, 854, 558, 866, 830, 203, 577, 370, 505, 224, 406,  
  543, 29, 545, 530, 71, 319, 413, 720, 445, 728, 204, 392,  
  338, 396, 375, 515, 820, 706, 112, 492, 959, 51, 979, 844,  
  701, 547, 509, 211, 848, 370, 738, 753, 192, 374, 142, 588,  
  875, 595, 356, 240, 330, 663, 500, 515, 370, 392, 345, 45,  
  188, 381, 615, 948, 821, 465, 349, 528, 844, 907, 250, 615,  
  997, 275, 718, 749, 490, 820, 422, 419, 568, 295, 569, 827,  
  32, 68, 790, 488, 57, 535, 624, 434, 883, 77, 728, 900, 101,  
  432, 886, 471, 82, 195, 336, 694, 638, 297, 769, 167, 578,
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```
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665, 655, 753, 979, 471, 214, 353, 13, 694, 356, 118, 183,
909, 238, 91, 443, 919, 679, 775, 904, 640, 61, 648, 235,
848, 754, 701, 538, 335, 849, 205, 74, 716, 517, 490, 521,
151, 200, 40, 911, 390, 112, 473, 344, 756, 195, 172, 733,
673, 809, 703, 511, 896, 371, 246, 365, 974, 633, 817, 382,
632, 913, 769, 14, 828, 870, 864, 892, 79, 123, 925, 995,
733, 862, 934, 856, 880, 813, 985, 320, 991, 742, 575, 662,
348, 118, 762, 946, 226, 553, 572, 952, 850, 88, 34, 632,
272, 658, 219, 370, 40, 271, 431, 487, 594, 92, 455, 449,
990, 890, 12, 445, 227, 896, 241, 524, 875, 607, 353, 601,
940, 19, 957, 853, 874, 376, 516, 484, 928, 116, 767, 361,
169, 269, 734, 914, 308, 502, 940, 797, 689, 996, 906, 807,
128, 464, 585, 549, 373, 405, 908, 995, 647, 4, 472, 969,
200, 159, 130, 46, 38, 250, 789, 495, 775, 208, 452, 911,
773, 544, 797, 106, 554, 848, 773, 741, 851, 364, 742, 34,
545, 143, 919, 968, 727, 656, 707, 613, 99, 175, 782, 447,
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679, 744, 554, 682, 142, 549, 471, 853, 682, 722, 673, 781,
635, 783, 569, 103, 938, 656, 763, 338, 584, 257, 470, 407,
722, 306, 318, 189, 878, 529, 297, 918, 222, 621, 322, 352,
757, 336, 823, 912, 461, 844, 359, 667, 478, 329, 700, 334,
104, 442, 967, 294, 93, 513, 26, 120, 910, 39, 187, 324, 234,
90, 111, 113, 893, 661, 146, 880, 40, 262, 401, 538, 514,
667, 715, 253, 628, 979, 445, 778, 826, 452, 242, 926, 672,
535, 662, 435, 969, 37, 241, 211, 82, 554, 138, 313, 367, 23,
513, 773, 402, 66, 618, 211, 553, 288, 555, 455, 888, 185,
817, 702, 688, 584, 863, 524, 121, 814, 844, 703, 323, 970,
806, 358, 91, 579, 157, 997, 700, 746, 341, 541, 374, 345,
319, 836, 459, 273, 514, 294, 265, 473, 745, 414, 853, 983,
946, 841, 249, 992, 55, 373, 540, 174, 613, 548, 63, 433,
960, 842, 353, 258, 26, 343, 887, 781, 576, 529, 97, 799, 58,
720, 427, 643, 358, 730, 935, 712, 912, 762, 387, 722, 35,
581, 165, 537, 377, 695, 734, 474, 498, 990, 563, 144]:
```

The histogram function displays the frequency of each value. The number of red balls is charted along the x-axis. The number of times this many red marbles was drawn is plotted on the y-axis. There is no correlation in the data (the next graph demonstrates this further).

```
> histogram(data, area=count, numbars=100, labels=["Number of
red marbles out of 1000", "Frequency"], color=red);
```



The previous plot had unconstrained axes (they weren't related to one another). Notice further that there is no correlation in the data from the next graph.

```
> histogram(data, area=count, numbars=100, labels=["Number of  
red marbles out of 1000", "Frequency"], color=red,  
scaling=constrained);
```

