array.r

denis

2021-07-10

#!/usr/bin/r

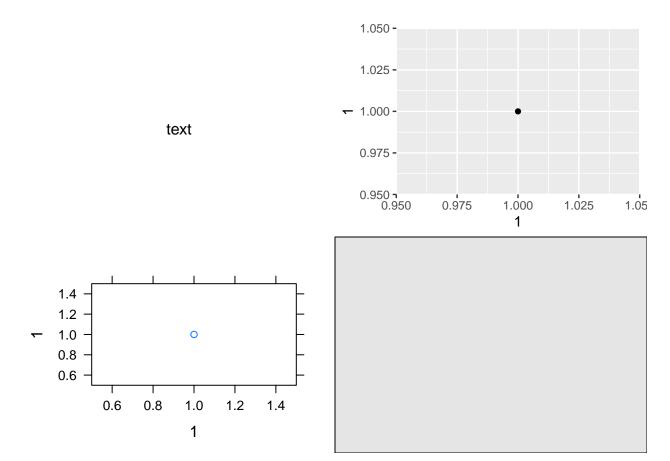
```
# Many of the operations covered in the rust few chapters, especially the
# transformations and factorization in Chapter 5, are important because of
# their use in solving systems of linear equations, which will be discussed in
# Chapter 6; in computing eigenvectors, eigenvalues, and singular values, which
# will be discussed in Chapter 7; and in the applications in Chapter 9.
x < -0:999
array(data = as.vector(x, mode = "any"), dim = length(x), dimnames = NULL)
##
      [1]
            0
                    2
                        3
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                1
##
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     [19]
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##
     [37]
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##
     [55]
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##
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                                                81
                                                    82
                                                                 85
     [73]
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                                    96
                                        97
                                            98
                                                99 100 101 102 103 104 105 106 107
##
    [109] 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
##
    [127] 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143
##
    [145] 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161
##
    [163] 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179
    [181] 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197
##
    [199] 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215
    [217] 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233
##
    [235] 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251
##
    [253] 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269
##
    [271] 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287
    [289] 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305
##
    [307] 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323
##
    [325] 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341
##
    [343] 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359
##
    [361] 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377
    [379] 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395
##
##
    [397] 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413
    [415] 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431
##
    [433] 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449
##
    [451] 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467
##
##
    [469] 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485
##
    [487] 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503
    [505] 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521
```

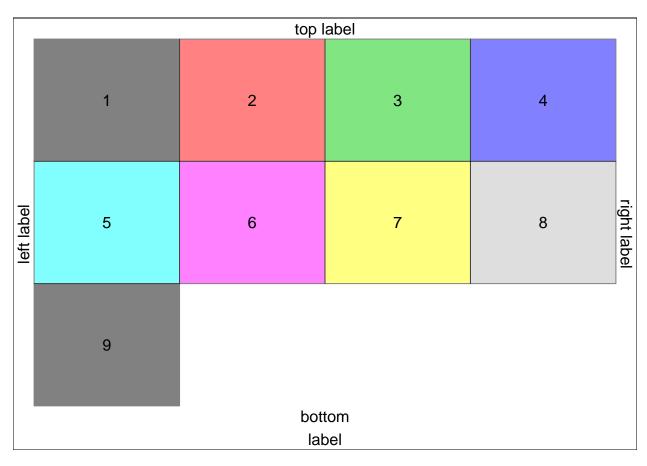
[523] 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539

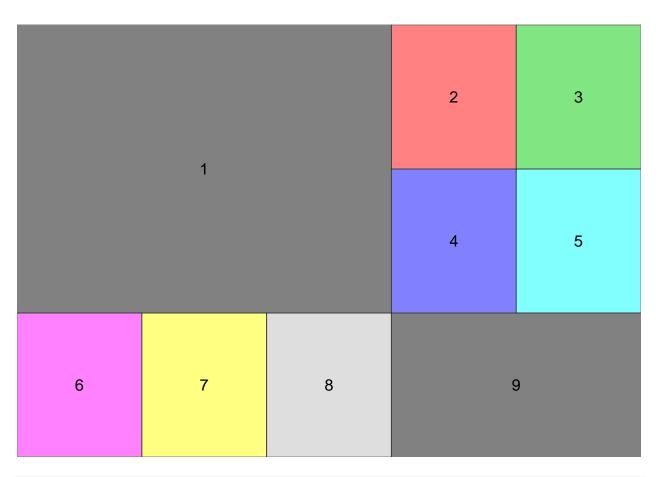
```
[541] 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557
##
    [559] 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575
    [577] 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593
    [595] 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611
    [613] 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629
    [631] 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647
##
    [649] 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665
    [667] 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683
##
    [685] 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701
##
    [703] 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719
    [721] 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737
    [739] 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755
##
    [757] 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773
   [775] 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791
   [793] 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809
##
    [811] 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827
##
    [829] 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845
##
    [847] 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863
   [865] 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881
##
    [883] 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899
##
   [901] 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917
   [919] 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935
   [937] 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953
##
    [955] 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971
   [973] 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989
   [991] 990 991 992 993 994 995 996 997 998 999
```

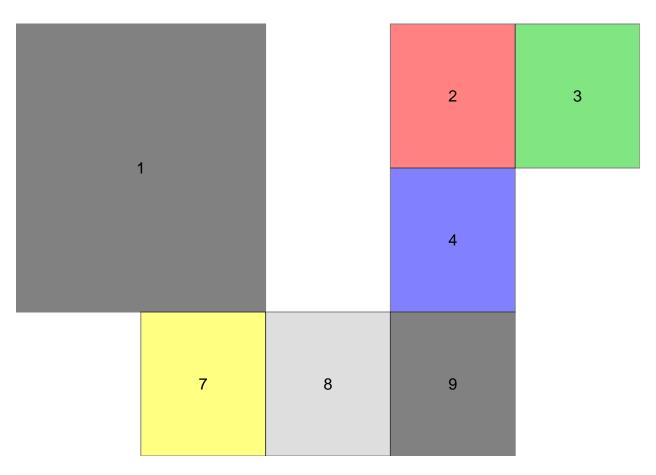
```
# Throughout the rust few chapters, we emphasize the facts that are import-
# tat in statistical applications. We also occasionally refer to relevant comps-
# national issues, although computational details are addressed specifically in
# Part III.
library(gridExtra)
library(grid)
library(ggplot2)
library(lattice)

p <- qplot(1,1)
p2 <- xyplot(1-1)
r <- rectGrob(gp=gpar(fill="grey90"))
t <- textGrob("text")
grid.arrange(t, p, p2, r, ncol=2)</pre>
```









```
# All cells are of equal size by default, but users may pass explicitly widths
# and/or heights in any valid grid units, or as relative numbers (interpreted
# as null),
grid.arrange(grobs=gs[1:3], ncol = 2, widths = 1:2, heights=unit(c(1,10), c("in", "mm")))
```

```
3
```

```
# Nested layouts with arrangeGrob
# The grid.arrange() function draws on the device; for more complex layouts, we
# may want to store the gable and combine it with other objects, e.g. forming
# nested layouts. To this end, use arrangeGrob(),
g1 <- arrangeGrob(grobs = gs, layout_matrix = t(lay))
g2 <- arrangeGrob(grobs = gs, layout_matrix = lay)
grid.arrange(g1, g2, ncol=2)</pre>
```

