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(* for 3-tuple from list of eight: 8 x 8 x 8 = 512;
+ 20 padding = 532 (c) Doug Youvan doug@youvan.com February 16,
2006; also see www.youvan.com and www.pseudocolor.com . YOU NEED
AT LEAST 256 MB RAM TO RUN THIS!; CLOSE ALL OTHER APPLICATIONS *)

name = Table[i, {i, 1, 10}];

For[loop = 1, loop ≤ 10, loop++,

  bckrow = .;
  bckcol = .;
  sum = .;
  gsum = .;

  bckrow = Table[{x, y}, {x, 1, 532}, {y, 1, 532}];
  bckcol = Table[{x, y}, {x, 1, 532}, {y, 1, 532}];

  bckrow[[All, All]] = {0.0, 0.0, 0.0};
  bckcol[[All, All]] = {0.0, 0.0, 0.0};
  tup = Tuples[{
    Random[Real, {(-1.0 + (loop / 400)), -0.25}, 4],
    Random[Real, {(-1.0 + (loop / 400)), -0.25}, 4],
    Random[Real, {(0 + (loop / 100)), 1.0}, 4],
    Random[Real, {(0 + (loop / 100)), 1.0}, 4],
    Random[Real, {(1.0 - (loop / 100)), 0.0}, 4],
    Random[Real, {(1.0 - (loop / 100)), 0.0}, 4],
    Random[Real, {0.25, (1.0 - (loop / 400))}, 4],
    Random[Real, {0.25, (1.0 - (loop / 400))}, 4]},
    3];

  For[j = 1, j ≤ 512, j++, bckcol[[All, j]] = tup[[j]];
  For[i = 1, i ≤ 512, i++, bckrow[[i, All]] = tup[[i]];

  sum = bckrow + bckcol;

  For[i = 1, i ≤ 532, i++, For[j = 1, j ≤ 532, j++,
    If[(((0 > sum[[i, j, 1]]) || (sum[[i, j, 1]] > 1) ||
      (0 > sum[[i, j, 2]]) || (sum[[i, j, 2]] > 1) ||
      (0 > sum[[i, j, 3]]) || (sum[[i, j, 3]] > 1)),
      (sum[[i, j, 1]] = sum[[i, j, 2]] = sum[[i, j, 3]] = 0)]]];

  gsum = Graphics[RasterArray[Apply[RGBColor, sum, {2}]],
    AspectRatio → error, ImageSize → {532, 532}];
  (* intentional error to get image size and aspect ratio
  correct in both the displayed and exported images *)

  Show[gsum];

  Export["C:\\Documents and Settings\\Doug\\Desktop\\Mathematica\\Anticolor512\\" <>
    ToString[name[[loop]]] <> ".gif", gsum, "GIF", ImageSize → {532, 532}];
  (* Formats: gif, GIF, jpg, JPG, tif, TIFF *)

] (* This right bracket is attached to the beginning loop *)

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