What is claimed is:

1. A method comprising:

dividing, using a computer processor, a tile of color values into cells based on color variation within the tile;

determining a base color value for each non-empty cell; and

encoding each value using the base color value.

2. The method of claim 1 including defining a minimal box around a tile's color values, and splitting the box into cells.

3. The method of claim 2 including merging a pair of boxes that increase a total volume of the merged boxes by the least amount.

4. The method of claim 3 including merging the smallest box with a neighbor that gives the smallest volume compared to merging with any other neighbor and merging iteratively until the encoding cost falls below a threshold.

5. The method of claim 1 including encoding residuals for each value in a non-empty cell relative to the base color value for that cell.

6. The method of claim 1 including subtracting a minimum color value from all color values in a group to be encoded to form color value components for each channel.

7. The method of claim 5 including finding a largest color value component of each channel.

8. The method of claim 6 including transforming color encoding into a single integer cost using the largest component per channel.

9. The method of claim 1 including encoding all channels for a color space together.

10. The method of claim 1 including encoding without multiplication or division.

11. The method of claim 1 including assigning widths to a set of numbers so that division is implemented with a constant over said set.

12. The method of claim 1 including encoding multiple values of the same color component together.

13. One or more non-transitory computer readable media storing instructions executed by a processor to perform a sequence comprising:

dividing, using a computer processor, a tile of color values into cells based on color variation within the tile;

determining a base color value for each non-empty cell; and

encoding each value using the base color value.

14. The media of claim 13, said sequence including defining a minimal box around a tile's color values, and splitting the box into cells.

15. The media of claim 14, said sequence including merging a pair of boxes that increase a total volume of the merged boxes by the least amount.

16. The media of claim 15, said sequence including merging the smallest box with a neighbor that gives the smallest volume compared to merging with any other neighbor and merging iteratively until the encoding cost falls below a threshold.

17. The media of claim 13, said sequence including encoding residuals for each value in a non-empty cell relative to the base color value for that cell.

18. The media of claim 13, said sequence including encoding all channels for a color space together.

19. An apparatus comprising:

a processor to divide a tile of color values into cells based on color variation within the tile, determine a base color value for each non-empty cell, and encode each value using the base color value; and

a storage coupled to said processor.

20. The apparatus of claim 19, said processor to define a minimal box around a tile's color values, and splitting the box into cells.

21. The apparatus of claim 20, said processor to merge a pair of boxes that increase a total volume of the merged boxes by the least amount.

22. The apparatus of claim 21, said processor to merge the smallest box with a neighbor that gives the smallest volume compared to merging with any other neighbor and merging iteratively until the encoding cost falls below a threshold.

23. The apparatus of claim 19, said processor to encode residuals for each value in a non-empty cell relative to the base color value for that cell.

24. The apparatus of claim 19, said processor to encode all channels for a color space together.

25. The apparatus of claim 19, said processor to encode without multiplication or division.

What is claimed is:

1. A method comprising:

dividing, using a computer processor, a tile of color values into cells based on color variation within the tile;

determining a base color value for each non-empty cell; and

encoding each value using the base color value.

2. The method of claim 1 including defining a minimal box around a tile's color values, and splitting the box into cells.

3. The method of claim 2 including merging a pair of boxes that increase a total volume of the merged boxes by the least amount.

4. The method of claim 3 including merging the smallest box with a neighbor that gives the smallest volume compared to merging with any other neighbor and merging iteratively until the encoding cost falls below a threshold.

5. The method of claim 1 including encoding residuals for each value in a non-empty cell relative to the base color value for that cell.

6. The method of claim 1 including subtracting a minimum color value from all color values in a group to be encoded to form color value components for each channel.

7. The method of claim 5 including finding a largest color value component of each channel.

8. The method of claim 6 including transforming color encoding into a single integer cost using the largest component per channel.

9. The method of claim 1 including encoding all channels for a color space together.

10. The method of claim 1 including encoding without multiplication or division.

11. The method of claim 1 including assigning widths to a set of numbers so that division is implemented with a constant over said set.

12. The method of claim 1 including encoding multiple values of the same color component together.

13. One or more non-transitory computer readable media storing instructions executed by a processor to perform a sequence comprising:

dividing, using a computer processor, a tile of color values into cells based on color variation within the tile;

determining a base color value for each non-empty cell; and

encoding each value using the base color value.

14. The media of claim 13, said sequence including defining a minimal box around a tile's color values, and splitting the box into cells.

15. The media of claim 14, said sequence including merging a pair of boxes that increase a total volume of the merged boxes by the least amount.

16. The media of claim 15, said sequence including merging the smallest box with a neighbor that gives the smallest volume compared to merging with any other neighbor and merging iteratively until the encoding cost falls below a threshold.

17. The media of claim 13, said sequence including encoding residuals for each value in a non-empty cell relative to the base color value for that cell.

18. The media of claim 13, said sequence including encoding all channels for a color space together.

19. The media of claim 13, said sequence of including encoding without multiplication or division.

20. The media of claim 13, said sequence including assigning widths to a set of numbers so that division is implemented with a constant over said set.

21. The media of claim 13, said sequence including encoding multiple values of the same color component together.

22. An apparatus comprising:

a processor to divide a tile of color values into cells based on color variation within the tile, determine a base color value for each non-empty cell, and encode each value using the base color value; and

a storage coupled to said processor.

23. The apparatus of claim 22, said processor to define a minimal box around a tile's color values, and splitting the box into cells.

24. The apparatus of claim 23, said processor to merge a pair of boxes that increase a total volume of the merged boxes by the least amount.

25. The apparatus of claim 24, said processor to merge the smallest box with a neighbor that gives the smallest volume compared to merging with any other neighbor and merging iteratively until the encoding cost falls below a threshold.

26. The apparatus of claim 22, said processor to encode residuals for each value in a non-empty cell relative to the base color value for that cell.

27. The apparatus of claim 22, said processor to encode all channels for a color space together.

28. The apparatus of claim 22, said processor to encode without multiplication or division.

29. The apparatus of claim 22 including a battery.

30. The apparatus of claim 22 including firmware and a module to update said firmware.