CLAIMS

1. A method of decoding video data, the method comprising:

determining that a current block of the video data is coded in palette mode;

performing operations defined in a palette mode coding syntax structure based on the current block being coded in the palette mode;

as part of performing the operations defined in the palette mode coding syntax structure:

determining, between single tree or dual tree partitioning, that the current block is coded with single tree partitioning enabled;

determining that the current block is coded in monochrome format; and

when the current block is coded with the single tree partitioning enabled and when the current block is coded in the monochrome format, determining that a number of color components used for palette mode decoding the current block is equal to one; and

palette mode decoding the current block based on the determined number of color components used for palette mode decoding the current block being equal to one.

2. The method of claim 1, wherein determining that the current block is coded in monochrome format comprises:

in response to determining that the current block is coded with single tree partitioning enabled, determining that the current block is coded in monochrome format.

3. The method of claim 1, wherein determining that the number of color components used for palette mode decoding is equal to one comprises:

in response to determining that the current block is coded with single tree partitioning enabled and in response to determining that the current block is coded in monochrome format, determining that the number of color components used for palette mode decoding is equal to one.

4. The method of claim 1, wherein the current block comprises a first block, the method further comprising:

determining that a second block is coded in palette mode;

determining, between single tree or dual tree partitioning, that the second block is coded with single tree partitioning enabled;

determining that the second block is not coded in monochrome format;

when the second block is coded with single tree partitioning enabled and when the second block is not coded in monochrome format, determining that a number of color components used for palette mode decoding the second block is equal to three; and

palette mode decoding the second block based on the determined number of color components used for palette mode decoding the second block being equal to three.

5. The method of claim 1, wherein palette mode decoding the current block comprises palette mode decoding the current block based on a palette mode table only for luma component.

6. The method of claim 5, wherein palette mode decoding the current block based on the palette mode table comprises:

receiving an index into the palette mode table for a sample in the current block; and

assigning the sample in the current block a luminance value based on the index into the palette mode table.

7. A device for decoding video data, the device comprising:

a memory configured to store the video data; and

processing circuitry coupled to the memory and configured to:

determine that a current block of the video data is coded in palette mode;

perform operations defined in a palette mode coding syntax structure based on the current block being coded in the palette mode;

as part of performing the operations defined in the palette mode coding syntax structure:

determine, between single tree or dual tree partitioning, that the current block is coded with single tree partitioning enabled;

determine that the current block is coded in monochrome format; and

when the current block is coded with the single tree partitioning enabled and when the current block is coded in the monochrome format, determine that a number of color components used for palette mode decoding the current block is equal to one; and

palette mode decode the current block based on the determined number of color components used for palette mode decoding the current block being equal to one.

8. The device of claim 7, wherein to determine that the current block is coded in monochrome format, the processing circuitry is configured to:

in response to determining that the current block is coded with single tree partitioning enabled, determine that the current block is coded in monochrome format.

9. The device of claim 7, wherein to determine that the number of color components used for palette mode decoding is equal to one, the processing circuitry is configured to:

in response to determining that the current block is coded with single tree partitioning enabled and in response to determining that the current block is coded in monochrome format, determine that the number of color components used for palette mode decoding is equal to one.

10. The device of claim 7, wherein the current block comprises a first block, and wherein the processing circuitry is configured to:

determine that a second block is coded in palette mode;

determine, between single tree or dual tree partitioning, that the second block is coded with single tree partitioning enabled;

determine that the second block is not coded in monochrome format;

when the second block is coded with single tree partitioning enabled and when the second block is not coded in monochrome format, determine that a number of color components used for palette mode decoding the second block is equal to three; and

palette mode decode the second block based on the determined number of color components used for palette mode decoding the second block being equal to three.

11. The device of claim 7, wherein to palette mode decode the current block, the processing circuitry is configured to palette mode decode the current block based on a palette mode table only for luma component.

12. The device of claim 11, wherein to palette mode decode the current block based on the palette mode table, the processing circuitry is configured to:

receive an index into the palette mode table for a sample in the current block; and

assign the sample in the current block a luminance value based on the index into the palette mode table.

13. The device of claim 7, further comprising a display configured to display decoded video data.

14. The device of claim 7, wherein the device comprises one or more of a camera, a computer, a mobile device, a broadcast receiver device, or a set-top box.

15. A computer-readable storage medium having stored thereon instructions that, when executed, cause one or more processors to:

determine that a current block of the video data is coded in palette mode;

perform operations defined in a palette mode coding syntax structure based on the current block being coded in the palette mode;

as part of performing the operations defined in the palette mode coding syntax structure:

determine, between single tree or dual tree partitioning, that the current block is coded with single tree partitioning enabled;

determine that the current block is coded in monochrome format; and

when the current block is coded with the single tree partitioning enabled and when the current block is coded in the monochrome format, determine that a number of color components used for palette mode decoding the current block is equal to one; and

palette mode decode the current block based on the determined number of color components used for palette mode decoding the current block being equal to one.

16. A device for decoding video data, the device comprising:

means for determining that a current block of the video data is coded in palette mode;

means for performing operations defined in a palette mode coding syntax structure based on the current block being coded in the palette mode, wherein the means for performing the operations defined in the palette mode coding syntax structure comprises:

means for determining, between single tree or dual tree partitioning, that the current block is coded with single tree partitioning enabled;

means for determining that the current block is coded in monochrome format; and

means for determining that a number of color components used for palette mode decoding the current block is equal to one when the current block is coded with the single tree partitioning enabled and when the current block is coded in the monochrome format; and

means for palette mode decoding the current block based on the determined number of color components used for palette mode decoding the current block being equal to one.

17. The device of claim 16, wherein the means for determining that the current block is coded in monochrome format comprises:

means for determining that the current block is coded in monochrome format in response to determining that the current block is coded with single tree partitioning enabled.

18. The device of claim 16, wherein the means for determining that the number of color components used for palette mode decoding is equal to one comprises:

means for determining that the number of color components used for palette mode decoding is equal to one in response to determining that the current block is coded with single tree partitioning enabled and in response to determining that the current block is coded in monochrome format.

19. The device of claim 16, wherein the current block comprises a first block, the device further comprising:

means for determining that a second block is coded in palette mode;

means for determining, between single tree or dual tree partitioning, that the second block is coded with single tree partitioning enabled;

means for determining that the second block is not coded in monochrome format;

means for determining that a number of color components used for palette mode decoding the second block is equal to three when the second block is coded with single tree partitioning enabled and when the second block is not coded in monochrome format; and

means for palette mode decoding the second block based on the determined number of color components used for palette mode decoding the second block being equal to three.

20. The device of claim 16, wherein the means for palette mode decoding the current block comprises means for palette mode decoding the current block based on a palette mode table only for luma component.

21. The device of claim 20, wherein the means for palette mode decoding the current block based on the palette mode table comprises:

means for receiving an index into the palette mode table for a sample in the current block; and

means for assigning the sample in the current block a luminance value based on the index into the palette mode table.