CLAIMS

1. A method for video data coding with a palette mode, the method comprising:

determining, based on a palette table reuse indicator, that a current coding unit is coded in a palette table reuse mode;

based on the determining, generating a palette table associated with the current coding unit by copying entries in a palette table predictor; and

palette coding the current coding unit using the palette table.

2. The method of claim 1, wherein the palette table associated with the current coding unit containing one or more color indices, a color index corresponding to a color in the current coding unit.

3. The method of claim 1, wherein the palette table predictor comprises a palette table associated with a previous coding unit, the palette table associated with the previous coding unit containing one or more color indices, a color index corresponding to a color in the previous coding unit.

4. The method of claim 1, further comprising:

determining, based on a second palette table reuse indicator associated with a second coding unit, that the second coding unit is not coded in the palette table reuse mode;

extracting a second palette table associated with the second coding unit; and

decoding the second coding unit using the second palette table.

5. The method of claim 1, further comprising:

creating a palette index map that maps one or more pixels of the current coding unit to a color index in the palette table associated with the current coding unit; and

generating palette index map prediction data that indicates values in the palette index map associated with at least some portions of the current coding unit.

6. The method of claim 1, further comprising:

generating the palette table predictor based at least in part on one or more color values in a previous coding unit; and

updating the one or more color values in the palette table predictor with one or more colors in the palette table.

7. The method of claim 1, wherein the palette table associated with the current coding unit containing one or more color indices, a color index corresponding to a color in the current coding unit, and method further comprises generating an index in the palette table at least by:

calculating a first cost of encoding the color associated with the at least one index using a color in the palette table predictor;

calculating a second cost of encoding the color associated with the at least one index as a new color in the palette table; and

selecting the smaller cost of the first cost and the second cost.

8. The method of claim 7, wherein the first cost and the second cost are calculated as a rate distortion cost.

9. A video coder for coding a video data with a palette mode, the video coder

comprising:

a processor configured to execute processor-executable instructions; and

a memory storing instructions that, when executed by the processor, cause the processor to:

determine, based on a palette table reuse indicator, that a current coding unit is coded in a palette table reuse mode;

based on the determining, generate a palette table associated with the current coding unit by copying entries in a palette table predictor; and

palette code the current coding unit using the palette table.

10. The video coder of claim 9, wherein the palette table associated with the current coding unit containing one or more color indices, a color index corresponding to a color in the current coding unit.

11. The video coder of claim 9, wherein the palette table predictor comprises a palette table associated with a previous coding unit, the palette table associated with the previous coding unit containing one or more color indices, a color index corresponding to a color in the previous coding unit.

12. The video coder of claim 9, wherein the memory stores further instructions for:

determining, based on a second palette table reuse indicator associated with a second coding unit, that the second coding unit is not coded in the palette table reuse mode;

extracting a second palette table associated with the second coding unit; and

decoding the second coding unit using the second palette table.

13. The video coder of claim 9, wherein the memory stores further instructions for:

creating a palette index map that maps one or more pixels of the current coding unit to a color index in the palette table associated with the current coding unit; and

generating palette index map prediction data that indicates values in the palette index map associated with at least some portions of the current coding unit.

14. The video coder of claim 9, wherein the memory stores further instructions for:

generating the palette table predictor based at least in part on one or more color values in a previous coding unit; and

updating the one or more color values in the palette table predictor with one or more colors in the palette table.

15. The video coder of claim 9, wherein the palette table associated with the current coding unit containing one or more color indices, a color index corresponding to a color in the current coding unit, and wherein the memory stores further instructions for generating an index in the palette table at least by:

calculating a first cost of encoding the color associated with the at least one index using a color in the palette table predictor;

calculating a second cost of encoding the color associated with the at least one index as a new color in the palette table; and

selecting the smaller cost of the first cost and the second cost.

CLAIMS

1. A method for video data coding with a palette mode, the method comprising:

generating a palette table predictor for a current coding unit based on a previous palette table associated with a previous coding unit and a previous palette table predicator associated with the previous coding unit;

predicting a palette table associated with the current coding unit based on the palette table predictor for the current coding unit; and

palette coding the current coding unit using the palette table associated with the current coding unit.

2. The method of claim 1, wherein generating the palette table predictor for the current coding unit further comprising:

merging the previous palette table associated with the previous coding unit and the previous palette table predicator associated with the previous coding unit.

3. The method of claim 2, wherein the merging is limited by a maximum palette predicator size.

4. The method of claim 1, wherein generating the palette table predictor for the current coding unit further comprising:

adding, to the palette table predictor for the current coding unit, a plurality of entries from the previous palette table associated with the previous coding unit.

5. The method of claim 4, wherein generating the palette table predictor for the current coding unit further comprising:

adding, to the palette table predictor for the current coding unit, at least one entry from the previous palette table predicator associated with the previous coding unit after the plurality of entries from the previous palette table associated with the previous coding unit.

6. The method of claim 5, wherein the at least one entry from the previous palette table predicator associated with the previous coding unit corresponds to a color that is not

represented in the previous palette table associated with the previous coding unit.

7. The method of claim 1, wherein the palette table associated with the current coding unit containing one or more color indices, a color index corresponding to a color in the current coding unit.

8. The method of claim 1, further comprising:

creating a palette index map that maps one or more pixels of the current coding unit to a color index in the palette table associated with the current coding unit; and

generating palette index map prediction data that indicates values in the palette index map associated with at least some portions of the current coding unit.

9. A video coder for coding a video data with a palette mode, the video coder comprising:

a processor configured to execute processor-executable instructions; and

a memory storing instructions that, when executed by the processor, cause the processor to:

generate a palette table predictor for a current coding unit based on a previous palette table associated with a previous coding unit and a previous palette table predicator associated with the previous coding unit;

predict a palette table associated with the current coding unit based on the palette table predictor for the current coding unit; and

palette code the current coding unit using the palette table associated with the current coding unit.

10. The video coder of claim 9, wherein generating the palette table predictor for the current coding unit further comprising:

merging the previous palette table associated with the previous coding unit and the previous palette table predicator associated with the previous coding unit.

11. The video coder of claim 10, wherein the merging is limited by a maximum palette predicator size.

12. The video coder of claim 9, wherein generating the palette table predictor for the current coding unit further comprising:

adding, to the palette table for the current coding unit, a plurality of entries from the previous palette table associated with the previous coding unit.

13. The video coder of claim 12, wherein generating the palette table predictor for the current coding unit further comprising:

adding, to the palette table predictor for the current coding unit, at least one entry from the previous palette table predicator associated with the previous coding unit after the plurality of entries from the previous palette table associated with the previous coding unit.

14. The video coder of claim 13, wherein the at least one entry from the previous palette table predicator associated with the previous coding unit corresponds to a color that is not represented in the previous palette table associated with the previous coding unit.

15. The video coder of claim 9, wherein the palette table associated with the current coding unit containing one or more color indices, a color index corresponding to a color in the current coding unit.

16. The video coder of claim 9, where the processor is further configured to:

create a palette index map that maps one or more pixels of the current coding unit to a color index in the palette table associated with the current coding unit; and

generate palette index map prediction data that indicates values in the palette index map associated with at least some portions of the current coding unit.