CLAIMS

What is claimed is:

1. A method of video processing, comprising:

determining, for a conversion between a current block of a video and a bitstream of the video, that a palette prediction mode is applied to the current block;

constructing, a current palette for the current block based on a predictor palette, wherein the current palette is used to derive reconstructed samples of the current block, and wherein the predictor palette comprises three color components;

performing the conversion based on the current palette; and

determining whether to update the predictor palette depending on a characteristic of the current block,

wherein the predictor palette is updated based on the current palette;

wherein the characteristic of the current block comprises a color component, a width and a height,

wherein when the current block at least satisfies that the width of the current block is no greater than a first threshold or the height of the current block is no greater than a second threshold, an updating process is disabled for the predictor palette,

wherein the updating process comprises: (1) inserting entries of the current palette, and (2) upon determining that the predictor palette is not full, inserting unreferenced entries for a previously coded block from the predictor palette;

wherein updating the predictor palette is allowed when the current block at least satisfies that the current block is a luma block and the current block has a size greater than 16, wherein the updating comprises a reset process; and

wherein when the current block is a luma block with a tree type of dual tree, palettes of different sizes are constructed for the current block and a chroma block corresponding to the current block.

2. The method of claim 1, wherein updating the predictor palette is disabled when a local dual tree is applied to the current block and the current block is a chroma block.

3. The method of claim 1, wherein updating the predictor palette is allowed when the width of the current block and the height of the current block are greater than a predefined threshold.

4. The method of claim 3, wherein the current block is a chroma block and the predefined threshold is 8.

5. The method of any one of claims 1 to 4, wherein updating the predictor palette is allowed when a local dual tree is applied to the current block and the current block is a luma block.

6. The method of any one of claims 1 to 5, wherein the predictor palette comprises three color components when a single tree is applied to the current block,

wherein the predictor palette comprises two chroma color components when a dual tree is applied to the current block and the current block is a chroma block, and

wherein the predictor palette comprises one color component when a dual tree is applied to the current block and the current block is a luma block.

7. The method of any one of claims 1 to 6, wherein the conversion includes encoding the current block into the bitstream.

8. The method of any one of claims 1 to 6, wherein the conversion includes decoding the current block from the bitstream.

9. An apparatus for processing video data comprising a processor and a non-transitory memory with instructions thereon, wherein the instructions upon execution by the processor, cause the processor to:

determine, for a conversion between a current block of a video and a bitstream of the video, that a palette prediction mode is applied to the current block;

construct, a current palette for the current block based on a predictor palette, wherein the current palette is used to derive reconstructed samples of the current block, and wherein the predictor palette comprises three color components;

perform the conversion based on the current palette; and

determine whether to update the predictor palette depending on a characteristic of the current block,

wherein the predictor palette is updated based on the current palette;

wherein the characteristic of the current block comprises a color component, a width and a height,

wherein when the current block at least satisfies that the width of the current block is no greater than a first threshold or the height of the current block is no greater than a second threshold, an updating process is disabled for the predictor palette,

wherein the updating process comprises: (1) inserting entries of the current palette, and (2) upon determining that the predictor palette is not full, inserting unreferenced entries for a previously coded block from the predictor palette;

wherein updating the predictor palette is allowed when the current block at least satisfies that the current block is a luma block and the current block has a size greater than 16, wherein the updating comprises a reset process; and

wherein when the current block is a luma block with a tree type of dual tree, palettes of different sizes are constructed for the current block and a chroma block corresponding to the current block.

10. The apparatus of claim 9, wherein updating the predictor palette is disabled when a local dual tree is applied to the current block and the current block is a chroma block.

11. The apparatus of claim 9, wherein updating the predictor palette is allowed when the width of the current block and the height of the current block are greater than a predefined threshold.

12. The apparatus of claim 11, wherein the current block is a chroma block and the predefined threshold is 8.

13. A non-transitory computer-readable storage medium storing instructions that cause a processor to:

determine, for a conversion between a current block of a video and a bitstream of the video, that a palette prediction mode is applied to the current block;

construct, a current palette for the current block based on a predictor palette, wherein the current palette is used to derive reconstructed samples of the current block, and wherein the predictor palette comprises three color components;

perform the conversion based on the current palette; and

determine whether to update the predictor palette depending on a characteristic of the current block,

wherein the predictor palette is updated based on the current palette;

wherein the characteristic of the current block comprises a color component, a width and a height,

wherein when the current block at least satisfies that the width of the current block is no greater than a first threshold or the height of the current block is no greater than a second threshold, an updating process is disabled for the predictor palette,

wherein the updating process comprises: (1) inserting entries of the current palette, and (2) upon determining that the predictor palette is not full, inserting unreferenced entries for a previously coded block from the predictor palette;

wherein updating the predictor palette is allowed when the current block at least satisfies that the current block is a luma block and the current block has a size greater than 16, wherein the updating comprises a reset process; and

wherein when the current block is a luma block with a tree type of dual tree, palettes of different sizes are constructed for the current block and a chroma block corresponding to the current block.

14. A non-transitory computer-readable recording medium storing a bitstream of a video which is generated by a method performed by a video processing apparatus, wherein the method comprises:

determining, for a current block of the video, that a palette prediction mode is applied to the current block;

constructing, a current palette for the current block based on a predictor palette, wherein the current palette is used to derive reconstructed samples of the current block, and wherein the predictor palette comprises three color components;

generating the bitstream based on the current palette; and

determining whether to update the predictor palette depending on a characteristic of the current block,

wherein the predictor palette is updated based on the current palette;

wherein the characteristic of the current block comprises a color component, a width and a height,

wherein when the current block at least satisfies that the width of the current block is no greater than a first threshold or the height of the current block is no greater than a second threshold, an updating process is disabled for the predictor palette,

wherein the updating process comprises: (1) inserting entries of the current palette, and (2) upon determining that the predictor palette is not full, inserting unreferenced entries for a previously coded block from the predictor palette;

wherein updating the predictor palette is allowed when the current block at least satisfies that the current block is a luma block and the current block has a size greater than 16, wherein the updating comprises a reset process; and

wherein when the current block is a luma block with a tree type of dual tree, palettes of different sizes are constructed for the current block and a chroma block corresponding to the current block.