CLAIMS

1. A method for processing video data, comprising:

determining, for a conversion between a current video block of a video and a bitstream of the video, a first prediction mode is enabled for the current video block, wherein in the first prediction mode, reconstructed samples of the current video block are represented by a set of representative color values, and the set of representative color values comprises at least one of 1) palette predictors, 2) escaped samples, or 3) palette information,

determining, for the current video block, a quantization parameter associated with the current video block,

deriving the escaped samples based on a modified value of the quantization parameter; and

performing the conversion at least based on the modified value of the quantization parameter,

wherein one escaped sample of the escaped samples is derived further based on a level scale chosen from a list of {40,45,51,57,64,72}, and an index of the chosen level scale in the list is determined based on the modified value of the quantization parameter, and

wherein the modified value of the quantization parameter is equal to Max (QpPrimeTsMin, Qp), where Qp denotes the quantization parameter, and where QpPrimeTsMin specifies a minimum allowed quantization parameter for transform skip mode and is determined based on a value of a first syntax element included in the bitstream.

2. The method of claim 1, wherein the modified value of the quantization parameter is derived based on a clip function.

3. The method of claim 1 or 2, wherein the modified value of the quantization parameter and a quantization parameter applied in a transform skip mode has a same value limiting.

4. The method of claim 3, wherein the modified value of the quantization parameter and the quantization parameter applied in a transform skip mode has the same minimum allowed value.

5. The method of any one of claims 1-4, wherein a first indication indicating whether to enable the first prediction mode for the first video block is signaled in the bitstream when a width and a height of the current video block being smaller than or equal to a first threshold, respectively.

6. The method of any one of claims 1-5, wherein a first indication indicating whether to enable the first prediction mode for the first video block is signaled in the bitstream when the prediction mode of the first video block is intra coded.

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

8. The method of any one of claims 1-6, wherein the conversion includes decoding the current video 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 video block of a video and a bitstream of the video, a first prediction mode is enabled for the current video block, wherein in the first prediction mode, reconstructed samples of the current video block are represented by a set of representative color values, and the set of representative color values comprises at least one of 1) palette predictors, 2) escaped samples, or 3) palette information,

determine, for the current video block, a quantization parameter associated with the current video block,

derive the escaped samples based on a modified value of the quantization parameter; and

perform the conversion at least based on the modified value of the quantization parameter,

wherein one escaped sample of the escaped samples is derived further based on a level scale chosen from a list of {40,45,51,57,64,72}, and an index of the chosen level scale in the list is determined based on the modified value of the quantization parameter, and

wherein the modified value of the quantization parameter is equal to Max (QpPrimeTsMin, Qp), where Qp denotes the quantization parameter, and where QpPrimeTsMin specifies a minimum allowed quantization parameter for transform skip mode and is determined based on a value of a first syntax element included in the bitstream.

10. The apparatus of claim 9, wherein the modified value of the quantization parameter is derived based on a clip function.

11. The apparatus of claim 9 or 10, wherein the modified value of the quantization parameter and a quantization parameter applied in a transform skip mode has a same value limiting.

12. The apparatus of claim 11, wherein the modified value of the quantization parameter and the quantization parameter applied in a transform skip mode has the same minimum allowed value.

13. The apparatus of any one of claims 9-12, wherein a first indication indicating whether to enable the first prediction mode for the first video block is signaled in the bitstream when a width and a height of the current video block being smaller than or equal to a first threshold, respectively.

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

determine, for a conversion between a current video block of a video and a bitstream of the video, a first prediction mode is enabled for the current video block, wherein in the first prediction mode, reconstructed samples of the current video block are represented by a set of representative color values, and the set of representative color values comprises at least one of 1) palette predictors, 2) escaped samples, or 3) palette information;

determine, for the current video block, a quantization parameter associated with the current video block;

derive the escaped samples based on a modified value of the quantization parameter; and

perform the conversion at least based on the modified value of the quantization parameter,

wherein one escaped sample of the escaped samples is derived further based on a level scale chosen from a list of {40,45,51,57,64,72}, and an index of the chosen level scale in the list is determined based on the modified value of the quantization parameter, and

wherein the modified value of the quantization parameter is equal to Max (QpPrimeTsMin, Qp), where Qp denotes the quantization parameter, and where QpPrimeTsMin specifies a minimum allowed quantization parameter for transform skip mode and is determined based on a value of a first syntax element included in the bitstream.

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

determining, for a current video block of a video, a first prediction mode is enabled for the current video block, wherein in the first prediction mode, reconstructed samples of the current video block are represented by a set of representative color values, and the set of representative color values comprises at least one of 1) palette predictors, 2) escaped samples, or 3) palette information;

determining, for the current video block, a quantization parameter associated with the current video block;

deriving the escaped samples based on a modified value of the quantization parameter; and

generating the bitstream from the current video block at least based on the modified value of the quantization parameter,

wherein one escaped sample of the escaped samples is derived further based on a level scale chosen from a list of {40,45,51,57,64,72}, and an index of the chosen level scale in the list is determined based on the modified value of the quantization parameter, and

wherein the modified value of the quantization parameter is equal to Max (QpPrimeTsMin, Qp), where Qp denotes the quantization parameter, and where QpPrimeTsMin specifies a minimum allowed quantization parameter for transform skip mode and is determined based on a value of a first syntax element included in the bitstream.