CLAIMS

1. A method for decoding, applied to a decoder, the method comprising:

determining a prediction mode of a current block;

determining at least one context model according to the prediction mode of the current block;

decoding a bitstream according to the at least one context model to determine a bin string of the current block, wherein the bin string comprises at least one binary symbol;

performing inverse binarization processing on the bin string to determine a value of first syntax identification information; and

when the first syntax identification information indicates that the current block uses a first transform mode, determining a transform kernel of the current block, and performing inverse transform on transform coefficients of the current block according to the transform kernel to determine a residual block of the current block.

2. The method of claim 1, wherein the prediction mode of the current block comprises at least one of an inter prediction mode or an intra prediction mode, and the method further comprises:

determining that at least one context model corresponding to the inter prediction mode is different from at least one context model corresponding to the intra prediction mode.

3. The method of claim 2, wherein performing the inverse binarization processing on the bin string to determine the value of the first syntax identification information comprises:

when the prediction mode of the current block is at least one of the intra prediction mode or the inter prediction mode, performing the inverse binarization processing on the bin string based on a first mode to determine the value of the first syntax identification information.

4. The method of claim 2, wherein performing the inverse binarization processing on the bin string to determine the value of the first syntax identification information comprises:

when the prediction mode of the current block is the intra prediction mode, performing the inverse binarization processing on the bin string based on a first mode to determine the value of the first syntax identification information; or

when the prediction mode of the current block is the inter prediction mode, performing the inverse binarization processing on the bin string based on a second mode to determine the value of the first syntax identification information,

wherein the first mode is different from the second mode.

5. The method of claim 1, wherein decoding the bitstream according to the at least one context model to determine the bin string of the current block comprises:

when the prediction mode of the current block is an intra prediction mode, decoding the bitstream according to at least one first context model and a fixed-length decoding mode to determine a first bin string of the current block; or

when the prediction mode of the current block is an inter prediction mode, decoding the bitstream according to at least one second context model and a truncated unary code mode to determine a second bin string of the current block,

wherein the at least one first context model is different from the at least one second context model.

6. The method of claim 1, wherein determining the transform kernel of the current block comprises:

determining a transform kernel set of the current block; and

determining a transform kernel of the current block according to the transform kernel set and the value of the first syntax identification information, wherein when the current block uses the first transform mode, the value of the first syntax identification information further indicates a number of the transform kernel of the current block in the transform kernel set.

7. The method of any one of claims 1 to 6, further comprising:

when the first syntax identification information indicates that the current block does not use the first transform mode and the current block meets a use condition of a multiple transform selection mode, decoding the bitstream to determine a value of a second syntax identification information of the current block; and

when the second syntax identification information indicates that the current block uses the multiple transform selection mode, determining the transform kernel of the current block from a plurality of transform kernels, and performing inverse transform on the transform coefficients of the current block according to the transform kernel of the current block to determine the residual block of the current block.

8. The method of any one of claims 1 to 6, further comprising:

decoding the bitstream to determine quantization coefficients of the current block; and

performing inverse quantization on the quantization coefficients of the current block to

determine the transform coefficients of the current block.

9. The method of claim 8, wherein the method further comprises:

when a last non-zero coefficient position among the transform coefficients of the current block meets a preset condition, performing the operations of: decoding the bitstream according to the at least one context model to determine the bin string of the current block, and performing inverse binarization processing on the bin string to determine the value of the first syntax identification information.

10. The method of claim 9, wherein the last non-zero coefficient position among the transform coefficients of the current block meets the preset condition comprises:

when the prediction mode of the current block is an intra prediction mode, a last non-zero coefficient position of all colour components in the transform coefficients of the current block is greater than or equal to a first threshold; or

when the prediction mode of the current block is an inter prediction mode, a last non-zero coefficient position of a luma component in the transform coefficients of the current block is greater than or equal to the first threshold.

11. The method of claim 9, wherein the last non-zero coefficient position among the transform coefficients of the current block meets the preset condition comprises:

when the prediction mode of the current block is an intra prediction mode, a last non-zero coefficient position of all colour components in the transform coefficients of the current block is less than or equal to a second threshold; or

when the prediction mode of the current block is an inter prediction mode, a last non-zero coefficient position of a luma component in the transform coefficients of the current block is less than or equal to the second threshold.

12. A method for encoding, applied to an encoder, the method comprising:

determining a prediction mode of a current block;

determining at least one context model according to the prediction mode of the current block;

determining a value of first syntax identification information, and performing binarization processing on the value of the first syntax identification information to determine a bin string of the current block, wherein the bin string comprises at least one binary symbol; and

encoding at least one binary symbol in the bin string according to the at least one context model, and signalling obtained encoded bits in a bitstream.

13. The method of claim 12, wherein the prediction mode of the current block comprises at least one of an inter prediction mode or an intra prediction mode, and the method further comprises:

determining that at least one context model corresponding to the inter prediction mode is different from at least one context model corresponding to the intra prediction mode.

14. The method of claim 13, wherein performing binarization processing on the value of the first syntax identification information to determine the bin string of the current block comprises:

when the prediction mode of the current block is the intra prediction mode, performing binarization processing on the value of the first syntax identification information based on a first mode to determine a first bin string of the current block; or

when the prediction mode of the current block is the inter prediction mode, performing binarization processing on the value of the first syntax identification information based on a second mode to determine a second bin string of the current block,

wherein the first mode is different from the second mode.

15. A computer-readable storage medium, having a computer program and a bitstream stored thereon, wherein the computer program, when executed by a processor, enables the processor to perform the method of any one of claims 12 to 14 to generate the bitstream.