CLAIMS

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

determining a context for an affine linear weighted intra prediction (ALWIP) syntax element, wherein the ALWIP syntax element indicates whether a current block of the video data is coded with ALWIP,

wherein based on an above neighbor block being in a different coding tree unit (CTU) from the current block, the above neighbor block is determined to be unavailable for determining the context, a value of an ALWIP syntax element for the above neighbor block is used for determining the context;

wherein the above neighbor block being an above neighbor of the current block, wherein the context for the ALWIP syntax element identifies probabilities of a bin having particular values;

coding the ALWIP syntax element based on the context;

performing a Most-Probable Mode (MPM) derivation process that derives one or more MPMs for the current block, wherein the current block is not coded using ALWIP, performing the MPM derivation process comprises:

determining that a neighboring block of the current block is an ALWIP-coded neighboring block; and

based on the neighboring block being an ALWIP-coded neighboring block:

including an intra prediction mode corresponding to a value as one of the one or more MPMs, wherein the value of the intra prediction mode to be included is the same or different from the determined value of the intra-prediction mode; and

coding the current block based on one of the MPMs for the current block.

2. The method of claim 1, wherein the intra prediction mode corresponding to a default value is a planar mode.

3. The method of claim 1, wherein the current block is a first block, a second block of the video data is a chroma block coded with a Direct Mode (DM) mode, and the method further comprises:

determining whether a collocated luma block is coded with ALWIP, the collocated luma block being collocated with the second block; and

based on the collocated luma block being coded with ALWIP:

determining that a value of an intra prediction mode of the collocated luma block is a default value; and

coding the second block using an intra prediction mode corresponding to the default value.

4. The method of claim 3, wherein the intra prediction mode corresponding to the default value is a planar mode.

5. The method of claim 1, wherein, if a width of the current block is larger than two times a height of the current block or the height is larger than two times the width, a value of three is determined as the context for the ALWIP syntax element.

6. The method of claim 1, wherein a video coding standard imposes a constraint that disables ALWIP for blocks that have a width less than a threshold width or a height less than a threshold height.

7. The method of claim 6, wherein the threshold width is 8 and the threshold height is 8.

8. The method of claim 1, wherein coding the current block comprises decoding the current block.

9. The method of claim 8, further comprising displaying a picture that includes the current block.

10. The method of claim 1, wherein coding the current block comprises encoding the current block.

11. The method of claim 10, further comprising capturing a picture that includes the current block.

12. A device for coding video data, the device comprising:

means for determining a context for an affine linear weighted intra prediction (ALWIP) syntax element, wherein the ALWIP syntax element indicates whether a current block of the video data is coded with ALWIP,

wherein based on an above neighbor block being in a different coding tree unit (CTU) from the current block, the above neighbor block is determined to be unavailable for determining the context, a value of an ALWIP syntax element for the above neighbor block is used for determining the context;

wherein the above neighbor block being an above neighbor of the current block, wherein the context for the ALWIP syntax element identifies probabilities of a bin having particular values;

means for coding the ALWIP syntax element based on the context

means for performing a Most-Probable Mode (MPM) derivation process that derives one or more MPMs for the current block, wherein the current block is not coded using ALWIP, the means for performing the MPM derivation process comprises:

means for determining that a neighboring block of the current block is an ALWIP-coded neighboring block; and

means for including, based on the neighboring block being an ALWIP-coded neighboring block, an intra prediction mode corresponding to a value as one of the one or more MPMs, wherein the value of the intra prediction mode to be included is the same or different from the determined value of the intra-prediction mode; and

means for coding the current block based on one of the MPMs for the current block.

13. The device of claim 12, wherein the intra prediction mode corresponding to a default value is a planar mode.

14. The device of claim 12 or claim 13 further comprising means for performing the method of any of claims 3-11.

15. A computer-readable storage medium having stored thereon instructions that, when executed, cause one or more processors to perform the method of any of claims 1 to 11.