CLAIMS

1. A method of video decoding, comprising:

identifying availability of one or more reference samples for a block to be decoded in a picture;

obtaining a set of intra prediction modes for said block, responsive to said availability of said one or more reference samples;

obtaining an intra prediction mode from said set of intra prediction modes; and

performing intra prediction for said block to be decoded to form a prediction block for said block, based on said intra prediction mode for said block.

2. The method of claim 1, wherein said availability of said one or more reference samples is identified based on a partitioning history for said block.

3. The method of claim 1, wherein said obtaining a set of intra prediction modes comprises:

obtaining a first set of intra prediction modes; and

adjusting said first set of intra prediction modes to said set of intra prediction modes responsive to said availability of said one or more reference samples.

4. The method of claim 3, wherein said first set of intra prediction modes is obtained based on an aspect ratio of said block.

5. The method of claim 4, wherein said set of intra prediction modes is obtained based on a different aspect ratio than said aspect ratio of said block.

6. The method of claim 5, wherein said different aspect ratio is half or twice of said aspect ratio of said block.

7. An apparatus for video decoding, comprising one or more processors, wherein said one or more processors are configured to:

identify availability of one or more reference samples for a block to be decoded in a picture;

obtain a set of intra prediction modes for said block, responsive to said availability of said one or more reference samples;

obtain an intra prediction mode from said set of intra prediction modes; and

perform intra prediction for said block to be decoded to form a prediction block for said block, based on said intra prediction mode for said block.

8. The apparatus of claim 7, wherein said availability of said one or more reference samples is identified based on a partitioning history for said block.

9. The apparatus of claim 7, wherein said one or more processors are configured to obtain a set of intra prediction modes by:

obtaining a first set of intra prediction modes; and

adjusting said first set of intra prediction modes to said set of intra prediction modes responsive to said availability of said one or more reference samples.

10. The apparatus of claim 9, wherein said first set of intra prediction modes is obtained based on an aspect ratio of said block.

11. A method of video encoding, comprising:

identifying availability of one or more reference samples for a block to be encoded in a picture;

obtaining a set of intra prediction modes for said block, responsive to said availability of said one or more reference samples;

selecting an intra prediction mode from said set of intra prediction modes; and

performing intra prediction for said block to be encoded to form a prediction block for said block, based on said intra prediction mode for said block.

12. The method of claim 11, wherein said availability of said one or more reference samples is identified based on a partitioning history for said block.

13. The method of claim 11, wherein said obtaining a set of intra prediction modes comprises:

obtaining a first set of intra prediction modes; and

adjusting said first set of intra prediction modes to said set of intra prediction modes responsive to said availability of said one or more reference samples.

14. The method of claim 13, wherein said first set of intra prediction modes is obtained based on an aspect ratio of said block.

15. The method of claim 14, wherein said set of intra prediction modes is obtained based on a different aspect ratio than said aspect ratio of said block.

16. The method of claim 15, wherein said different aspect ratio is half or twice of said aspect ratio of said block.

17. An apparatus for video encoding, comprising one or more processors, wherein said one or more processors are configured to:

identify availability of one or more reference samples for a block to be encoded in a picture;

obtain a set of intra prediction modes for said block, responsive to said availability of said one or more reference samples;

select an intra prediction mode from said set of intra prediction modes; and

perform intra prediction for said block to be encoded to form a prediction block for said block, based on said intra prediction mode for said block.

18. The apparatus of claim 17, wherein said availability of said one or more reference samples is identified based on a partitioning history for said block.

19. The apparatus of claim 17, wherein said one or more processors are configured to obtain a set of intra prediction modes by:

obtaining a first set of intra prediction modes; and

adjusting said first set of intra prediction modes to said set of intra prediction modes responsive to said availability of said one or more reference samples.

20. The apparatus of claim 19, wherein said first set of intra prediction modes is obtained based on an aspect ratio of said block.