CLAIMS

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

generating, by one or more processors, a predictive palette including palette entries that indicate pixel values, the predictive palette including one or more palette entries from one or more previously coded blocks, the one or more previously coded blocks comprising one or more neighboring blocks of the current block, the one or more neighboring blocks comprising at least one spatially neighboring block or at least one neighboring block of the current block in a scan order for scanning the at least one neighboring block and the current block;

determining, by the one or more processors, which of the palette entries in the predictive palette are to be copied to a current palette for a current block of the video data stored to a memory, wherein determining the palette entries that are to be copied comprises coding one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette;

coding, by the one or more processors, one or more syntax elements indicating a number of new palette entries that are to be included in the current palette for the current block, wherein the new palette entries are not in the predictive palette;

coding, by the one or more processors, one or more syntax elements indicating a pixel value for each of the new palette entries to be included in the current palette;

calculating, by the one or more processors, a size of the current palette equal to the sum of a number of the copied palette entries and the number of the new palette entries;

generating, by the one or more processors, the current palette having the calculated size including the copied palette entries and the new palette entries; and

determining, by the one or more processors, index values for one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

2. The method of claim **1**, wherein the one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette comprise a binary vector including a flag for each of the palette entries in the predictive palette that indicates whether a respective palette entry is to be copied to the current palette.

3. The method of claim **1**, wherein the one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette comprise a losslessly compressed version of a binary vector, wherein an uncompressed version of the binary vector includes a flag for each of the palette entries in the predictive palette that indicates whether a respective palette entry is to be copied to the current palette.

4. The method of claim **1**, wherein the one or more syntax elements indicating the number of the new palette entries that are to be included in the current palette are coded using at least one of unary codes, truncated unary codes, Exponential-Golomb codes, or Golomb-Rice codes.

5. The method of claim **1**, wherein generating the current palette including the copied palette entries and the new palette entries comprises concatenating the copied palette entries and the new palette entries.

6. The method of claim **1**, wherein the current block comprises one of a first block in a slice of the video data or a leftmost block of the slice or a picture of the video data, the method further comprising disabling copying of palette entries in the predictive palette to the current palette for the current block.

7. The method of claim **1**, wherein determining the index values for the one or more pixel values of the current block comprises:

coding one or more syntax elements indicating whether each of the pixel values of the current block has a corresponding pixel value in the current palette;

coding one or more syntax elements indicating the index values for the one or more pixel values of the current block that have corresponding pixel values in the current palette; and

coding one or more syntax elements indicating the pixel values for the one or more pixel values of the current block that do not have a corresponding pixel value in the current palette.

8. The method of claim **1**, wherein determining the index values for the one or more pixel values of the current block comprises:

coding one or more syntax elements indicating the index values for the one or more pixel values of the current block, wherein the index values identify corresponding pixel values in the current palette as prediction pixel values; and

coding one or more syntax elements indicating residual values between the one or more pixel values of the current block and the identified prediction pixel values in the current palette.

9. The method of claim **1**, wherein the method of coding video data comprises a method of decoding video data, the method comprising:

decoding the one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette;

decoding the one or more syntax elements indicating the number of the new palette entries that are to be included in the current palette;

decoding the one or more syntax elements indicating the pixel value for each of the new palette entries;

generating the current palette including the copied palette entries and the new palette entries; and

decoding one or more syntax elements indicating the index values for the one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

10. The method of claim **1**, wherein the method of coding video data comprises a method of encoding video data, the method comprising:

generating the current palette including the copied palette entries and the new palette entries;

encoding the one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette;

encoding the one or more syntax elements indicating the number of the new palette entries that are to be included in the current palette;

encoding the one or more syntax elements indicating the pixel value for each of the new palette entries; and

encoding one or more syntax elements indicating the index values for the one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

11. An apparatus for coding video data, the apparatus comprising:

a memory storing video data; and

one or more processors configured to:

generate a predictive palette including palette entries that indicate pixel values, the predictive palette including one or more palette entries from one or more previously coded blocks, the one or more previously coded blocks comprising one or more neighboring blocks of the current block, the one or more neighboring blocks comprising at least one

spatially neighboring block or at least one neighboring block of the current block in a scan order for scanning the at least one neighboring block and the current block;

determine which of the palette entries in the predictive palette are to be copied to a current palette for a current block of the video data, wherein the one or more processors are configured to code one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette;

code one or more syntax elements indicating a number of new palette entries that are to be included in the current palette for the current block, wherein the new palette entries are not in the predictive palette;

code one or more syntax elements indicating a pixel value for each of the new palette entries to be included in the current palette;

calculate a size of the current palette equal to the sum of a number of the copied palette entries and the number of the new palette entries;

generate the current palette having the calculated size including the copied palette entries and the new palette entries; and

determine index values for one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

12. The apparatus of claim **11**, wherein the one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette comprise a binary vector including a flag for each of the palette entries in the predictive palette that indicates

whether a respective palette entry is to be copied to the current palette.

13. The apparatus of claim **11**, wherein the one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette comprise a losslessly compressed version of a binary vector, wherein the uncompressed version of the binary vector includes a flag for each of the palette entries in the predictive palette that indicates whether a respective palette entry is to be copied to the current palette.

14. The apparatus of claim **11**, wherein the one or more syntax elements indicating the number of the new palette entries that are to be included in the current palette are coded using at least one of unary codes, truncated unary codes, Exponential-Golomb codes, or Golomb-Rice codes.

15. The apparatus of claim **11**, wherein the processors are configured to concatenate the copied palette entries and the new palette entries to generate the current palette.

16. The apparatus of claim **11**, wherein the current block comprises one of a first block in a slice of the video data or a leftmost block of the slice or a picture of the video data, and wherein the processors are configured to disable copying of palette entries in the predictive palette to the current palette for the current block.

17. The apparatus of claim **11**, wherein the processors are configured to:

code one or more syntax elements indicating whether each of the pixel values of the current block has a corresponding pixel value in the current palette;

code one or more syntax elements indicating the index values for the one or more pixel values of the current block that have corresponding pixel values in the current palette; and

code one or more syntax elements indicating the pixel values for the one or more pixel values of the current block that do not have a corresponding pixel value in the current palette.

18. The apparatus of claim **11**, wherein the processors are configured to:

code one or more syntax elements indicating the index values for the one or more pixel values of the current block, wherein the index values identify corresponding pixel values in the current palette as prediction pixel values; and

code one or more syntax elements indicating residual values between the one or more pixel values of the current block and the identified prediction pixel values in the current palette.

19. The apparatus of claim **11**, wherein the apparatus comprises a video decoding device for decoding video data, and wherein the processors are configured to:

decode the one or more syntax elements indicating whether each of the one or more of the palette entries in the predictive palette is to be copied to the current palette;

decode the one or more syntax elements indicating the number of the new palette entries that are to be included in the current palette;

decode the one or more syntax elements indicating a pixel value for each of the new palette entries;

generate the current palette including the copied palette entries and the new palette entries; and

decode one or more syntax elements indicating the index values for the one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

20. The apparatus of claim **11**, wherein the apparatus comprises a video encoding device for encoding video data, and wherein the processors are configured to:

generate the current palette including the copied palette entries and the new palette entries;

encode the one or more syntax elements indicating whether each of the one or more of the palette entries in the predictive palette is to be copied to the current palette;

encode the one or more syntax elements indicating the number of the new palette entries that are to be included in the current palette;

encode the one or more syntax elements indicating a pixel value for each of the new palette entries; and

encode one or more syntax elements indicating the index values for the one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

21. An apparatus for coding video data, the apparatus comprising:

means for generating a predictive palette including palette entries that indicate pixel values, the predictive palette including one or more palette entries from one or more previously coded blocks, the one or more previously coded blocks comprising one or more neighboring blocks of the current block, the one or more neighboring blocks comprising at least one spatially neighboring block or at least one neighboring block of the

current block in a scan order for scanning the at least one neighboring block and the current block;

means for determining which of the palette entries in the predictive palette are to be copied to a current palette for a current block of the video data, wherein the means for determining the palette entries that are to be copied comprise means for coding one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette;

means for coding one or more syntax elements indicating a number of new palette entries that are to be included in the current palette for the current block, wherein the new palette entries are not in the predictive palette;

means for coding one or more syntax elements indicating a pixel value for each of the new palette entries to be included in the current palette;

means for calculating a size of the current palette equal to the sum of a number of the copied palette entries and the number of the new palette entries;

means for generating the current palette having the calculated size including the copied palette entries and the new palette entries; and

means for determining index values for one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.

22. A non-transitory computer-readable medium storing instructions thereon that, when executed, cause one or more processors to:

generate a predictive palette including palette entries that indicate pixel values, the predictive palette including one or more palette entries from one or more previously coded blocks, the one or more previously coded blocks comprising one or more neighboring blocks of the current block, the one or more neighboring blocks comprising at least one spatially neighboring block or at least one neighboring block of the current block in a scan order for scanning the at least one neighboring block and the current block;

determine which of the palette entries in the predictive palette are to be copied to a current palette for a current block of the video data, wherein the instructions cause the one or more processors to code one or more syntax elements indicating whether each of the palette entries in the predictive palette is to be copied to the current palette;

code one or more syntax elements indicating a number of new palette entries that are to be included in the current palette for the current block, wherein the new palette entries are not in the predictive palette;

code one or more syntax elements indicating a pixel value for each of the new palette entries to be included in the current palette;

calculate a size of the current palette equal to the sum of a number of the copied palette entries and the number of the new palette entries;

generate the current palette including the copied palette entries and the new palette entries; and

determine index values for one or more pixel values of the current block that identify the palette entries in the current palette used to represent the pixel values of the current block.