libCbg

Develop Docs

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```
cbg_codec::api* cbg1_enc_default

( int height,
  int width,
  int color_depth,
  unsigned char/BYTE *raw_pixel_buffer)
```

- Encode to cbg image format by pixels in raw pixel buffer and use height, width and depth you pass. Write the cbg bit stream (include "CompressedBG___" magic bytes and all file header information.) in a bitstream buffer.
- libcbg will return a "cbg_codec::api*" type struct pointer. Change to P15 to read more about this struct.
- libcbg will use default key (0x31676263 or "cbg1") and write default encoder information ("bylibcbg").
- libcbg will use default huffman coding settings(multithreads).

- 0x1: Height or width are wrong. (negative or zero).
 - Tips: check height and width and pass a correct num.
- 0x2: Wrong or not support color depth.
 - Tips: check color depth and pass a correct num.

```
cbg_codec::api* cbg1_enc_advanced

( int height,
  int width,
  int color_depth,
  unsigned int/DWORD key,
  char *encoder_information,
  bool huffman_coding_settings,
  unsigned char/BYTE *raw pixel buffer )
```

- Encode to cbg image format by pixels in raw pixel buffer and use height, width, depth and key you pass. Write the cbg bit stream(include "CompressedBG___" magic bytes and all file header information.) in a bitstream buffer.
- libcbg will return a "cbg_codec::api*" type struct pointer. Change to P15 to read more about this struct.
- libcbg will write encoder information you pass.
- libcbg will use singlethread if the huffman coding settings is false,
 and will use multithreads if it is true.

Tips: libcbg will not use less memory if you use singlethread coding.

Maybe support in next version? (maybe).

Error codes:

0x1: Height or width are wrong.(negative or zero).

Tips: check height and width and pass a correct num.

• 0x1: Wrong or not support color depth.

Tips: check color depth and pass a correct num.

Warning codes:

0x101: Encoder information is too long(Out of 8 bytes).

Tips: libcbg will only be use first 8 bytes character.

```
int cbg1_encToFile_default
( int height,
  int width,
  int color_depth,
  unsigned char/BYTE *raw_pixel_buffer,
  char *filename)
```

- Encode to cbg image format by pixels in raw pixel buffer and use height, width and depth you pass. Write the cbg bit stream (include "CompressedBG___" magic bytes and all file header information.) in bit stream buffer. Write the bit stream in a file you designated and only return a successed code(0x0).
- libcbg will use default key (0x31676263 or "cbg1") and write default encoder information ("bylibcbg").
- libcbg will use default huffman coding settings(multithreads).

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int cbg1_encToFile_advanced
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  int width,
  int color_depth,
  unsigned int/DWORD key,
  char *encoder_information,
  bool huffman_coding_settings,
  unsigned char/BYTE *raw_pixel_buffer,
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Tips: libcbg will only be use first 8 bytes character.

```
cbg_codec::api* cbg1_get_trans_pixel

( int height,
  int width,
  int color_depth,
  unsigned char/BYTE *raw_pixel_buffer)
```

- Transform the pixels from raw pixel buffer to cbg format used pixels.
 Use height, width and depth you pass. Write the transformed pixel stream in a bitstream buffer.
- libcbg will return a "cbg_codec::api*" type struct pointer. Change to P15 to read more about this struct.

- 0x1: Height or width are wrong.(negative or zero).
 - Tips: check height and width and pass a correct num.
- 0x2: Wrong or not support color depth.
 - Tips: check color depth and pass a correct num.

```
cbg_codec::api* cbg1_get_huffman_stream
( int height,
  int width,
  int color_depth,
  unsigned char/BYTE *raw_pixel_buffer)
```

- Encode the pixels to cbg format style huffman coding(cbg format is using a special huffman tree). Use height, width and depth you pass.
 Write the huffman coding bit stream in a bitstream buffer.
- libcbg will return a "cbg_codec::api*" type struct pointer. Change to P15 to read more about this struct.
- libcbg will use default huffman coding settings(multithreads).

- 0x1: Height or width are wrong. (negative or zero).
 - Tips: check height and width and pass a correct num.
- 0x2: Wrong or not support color depth.
 - Tips: check color depth and pass a correct num.

```
cbg_codec::api*
{
    unsigned long long buffersize;
    unsigned char buffer[];
}
• unsigned long long buffersize;
    The size of this buffer.
```

• unsigned char buffer[];

The binary stream buffer pointer. Size of this buffer is recorded in "unsigned long long buffersize".