Image processing

Bmp 🡪 ASCII

What it is

What is BMP

1. What is a BMP
   1. BMP aka DIB
   2. Device independent bitmap
   3. Uncompresses
   4. Significantly larger than .png, .jpg or .gif
   5. Composed of
      1. BMP File Header – General info
      2. Bitmap Information – Stores detailed information about the bitmap image
      3. Color Palette – Stores definition fo the colors
      4. Store the actual image , pixel by pixel
   6. Stored bottom to top, right to left
2. Quantify picture
   1. RGB Values
   2. Pixel coordinates

2c. How to do BMP🡪ASCII

ASS-KEY Pr0n Demo !!! xD

Easily done—scopefailblog.com

Re-examine

Idea: Up scaling a BMP

Goals:

Use BMP 🡪 ASCII Knowledge to up scale

<Mosaic teaser>

How?

7 X 3 Example

How to fill empty pixels

🡪 Formulae

🡪 Edges (Special Case)

How to parallelize:

🡪 The Sequential Algorithm works along rows, so rows=masters

🡪 Main spawns all workers 1:1 with pixels

Future Opportunity and Extensibility

Mosaic 🡪 How?

Conclusion

Speed-Up (or lack thereof), efficiency