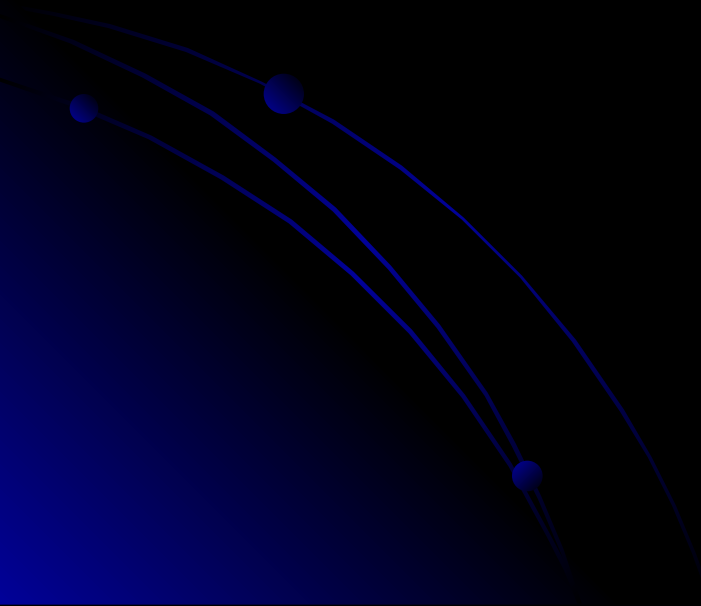


Databending: how to change pictures without graphic editors

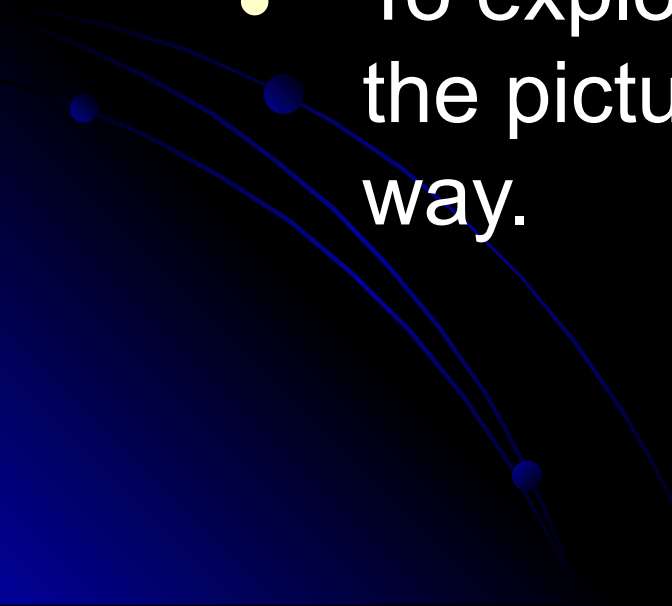
Made by Ulyanov Ivan,
USTU, RENGM-1-15 group

What is databending?

- Databending is a kind of glitch which uses text or sound editors to change images and videos.



The aims:

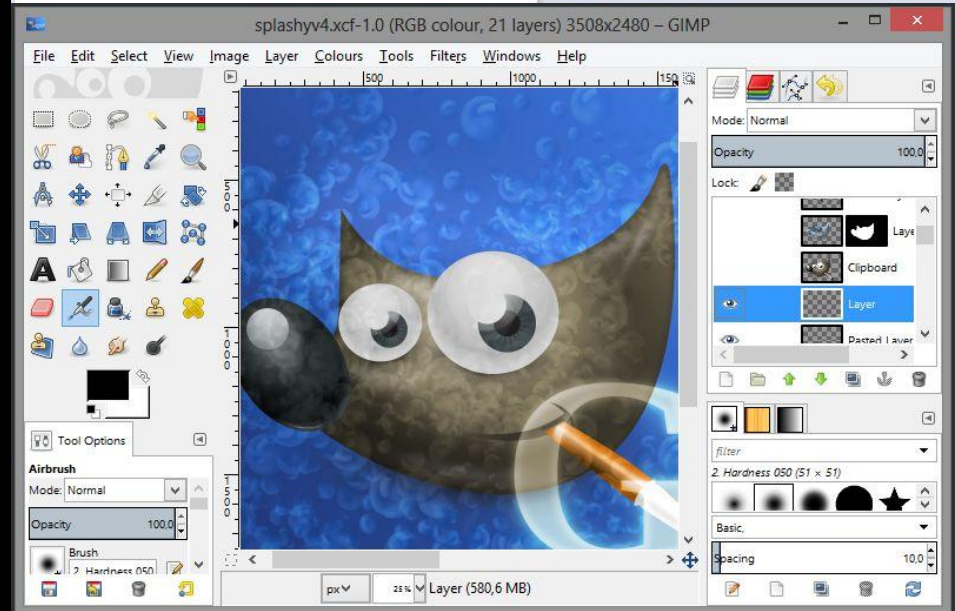
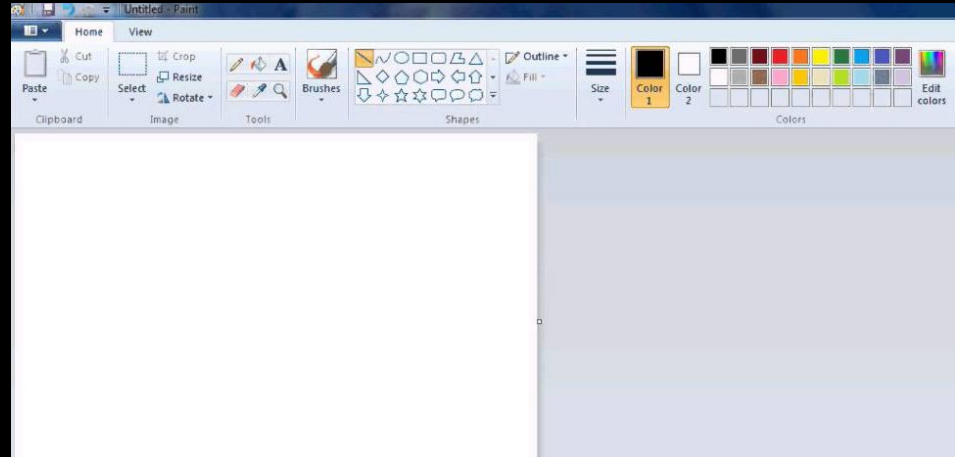
- To examine the possibilities of programs;
 - To find the changeable image formats;
 - To explore possible reasons why the pictures are changed in this way.
- 

Software

- Graphic editors:

- MS Paint

- GIMP 2.8



Software

- The programs we used:

- Wordpad



- Audacity



- notepad++



Formats that we used

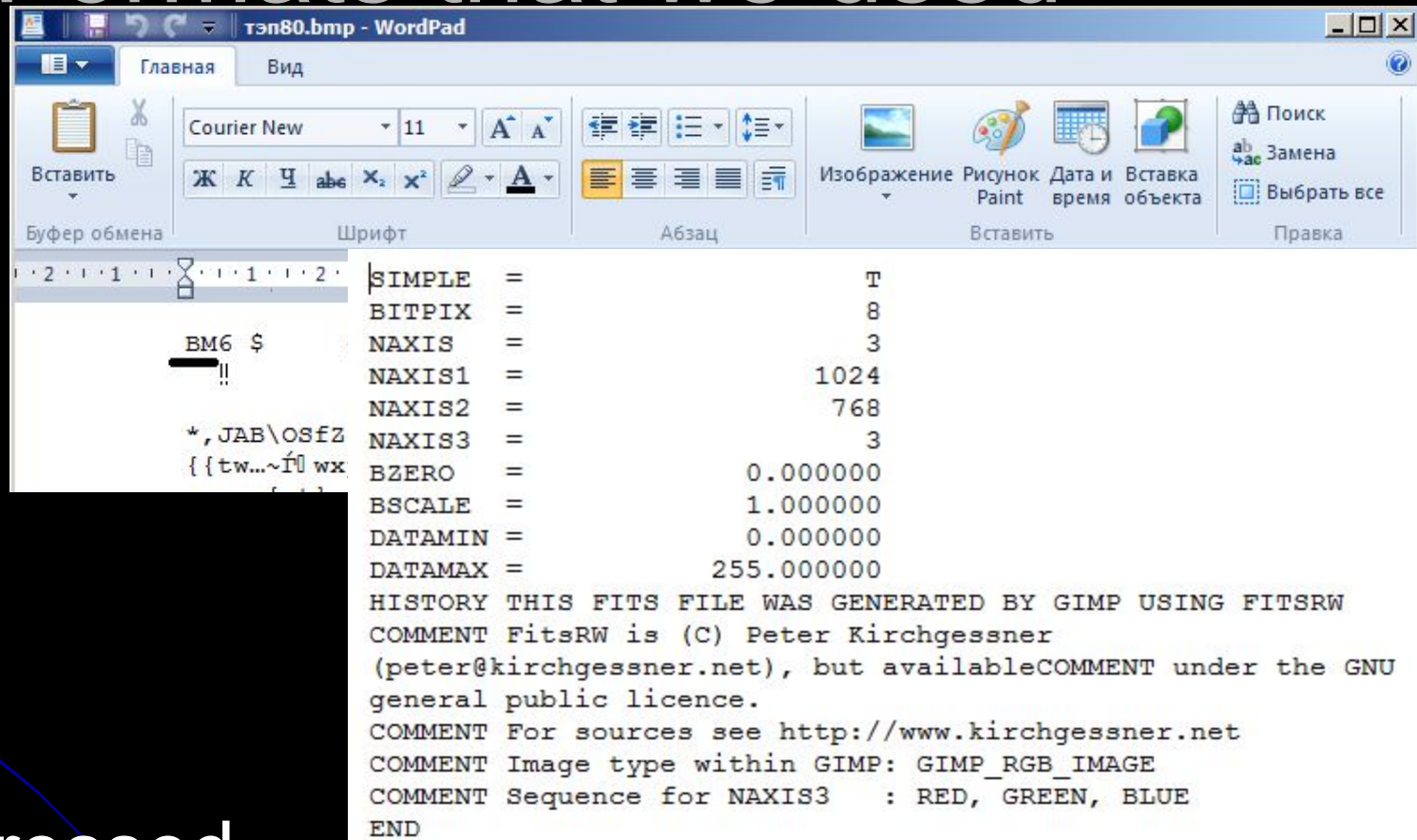
- BMP

- FIT

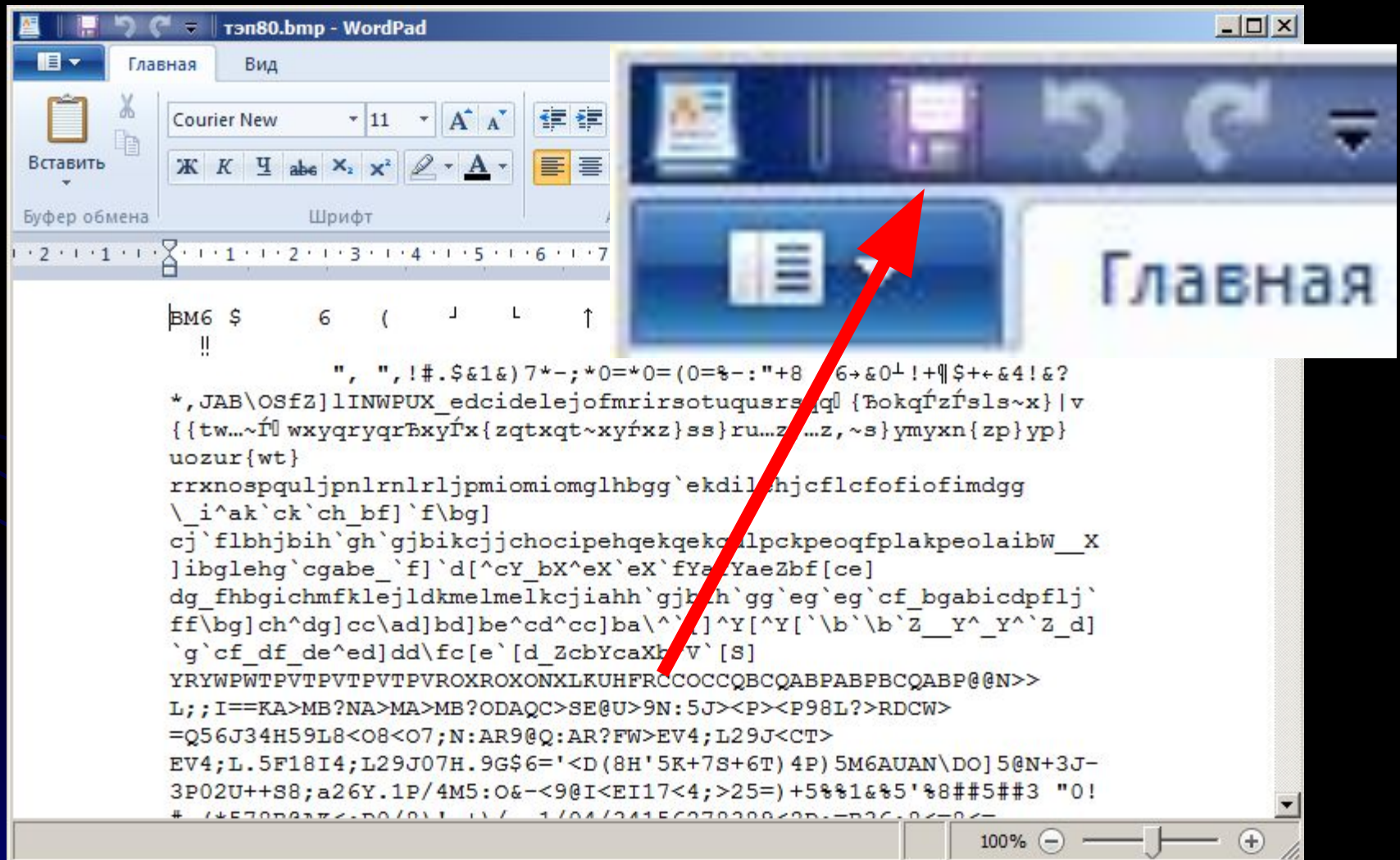
- Compressed

- JPG

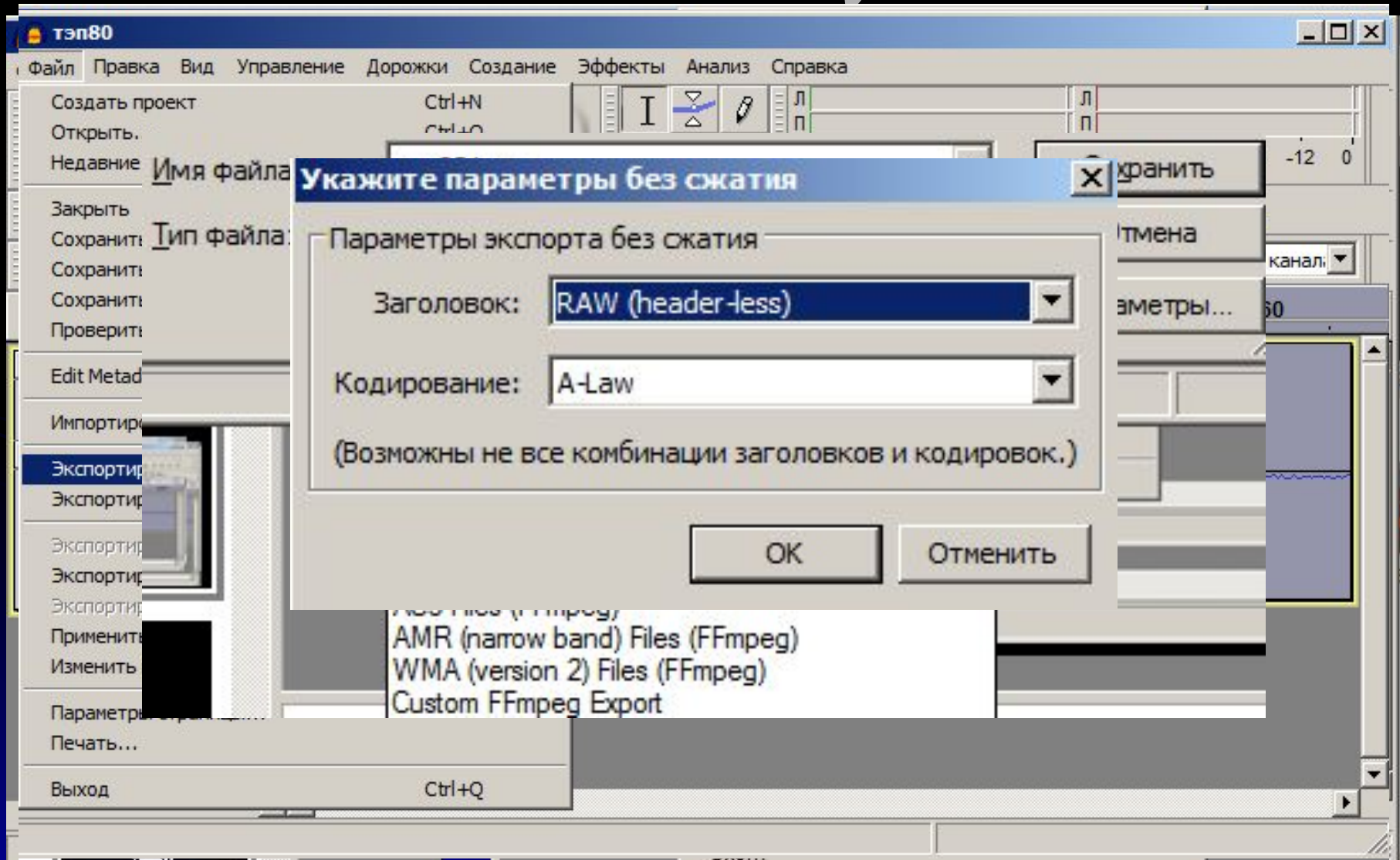
- PNG



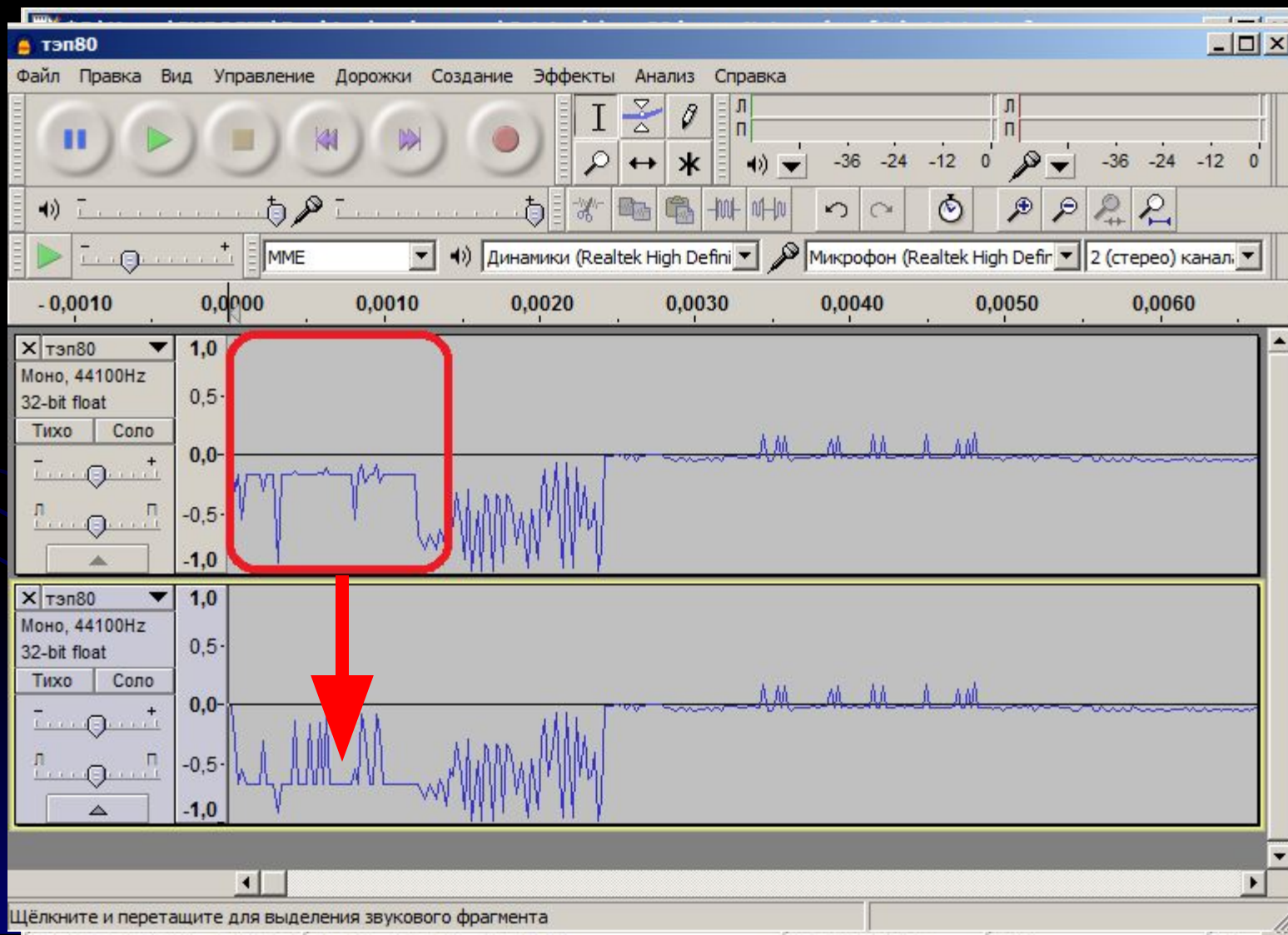
How to databend: Wordpad



How to databend: Audacity



How to databend: notepad++



The example



Results and reasons

- Wordpad





Results and reasons

- Wordpad





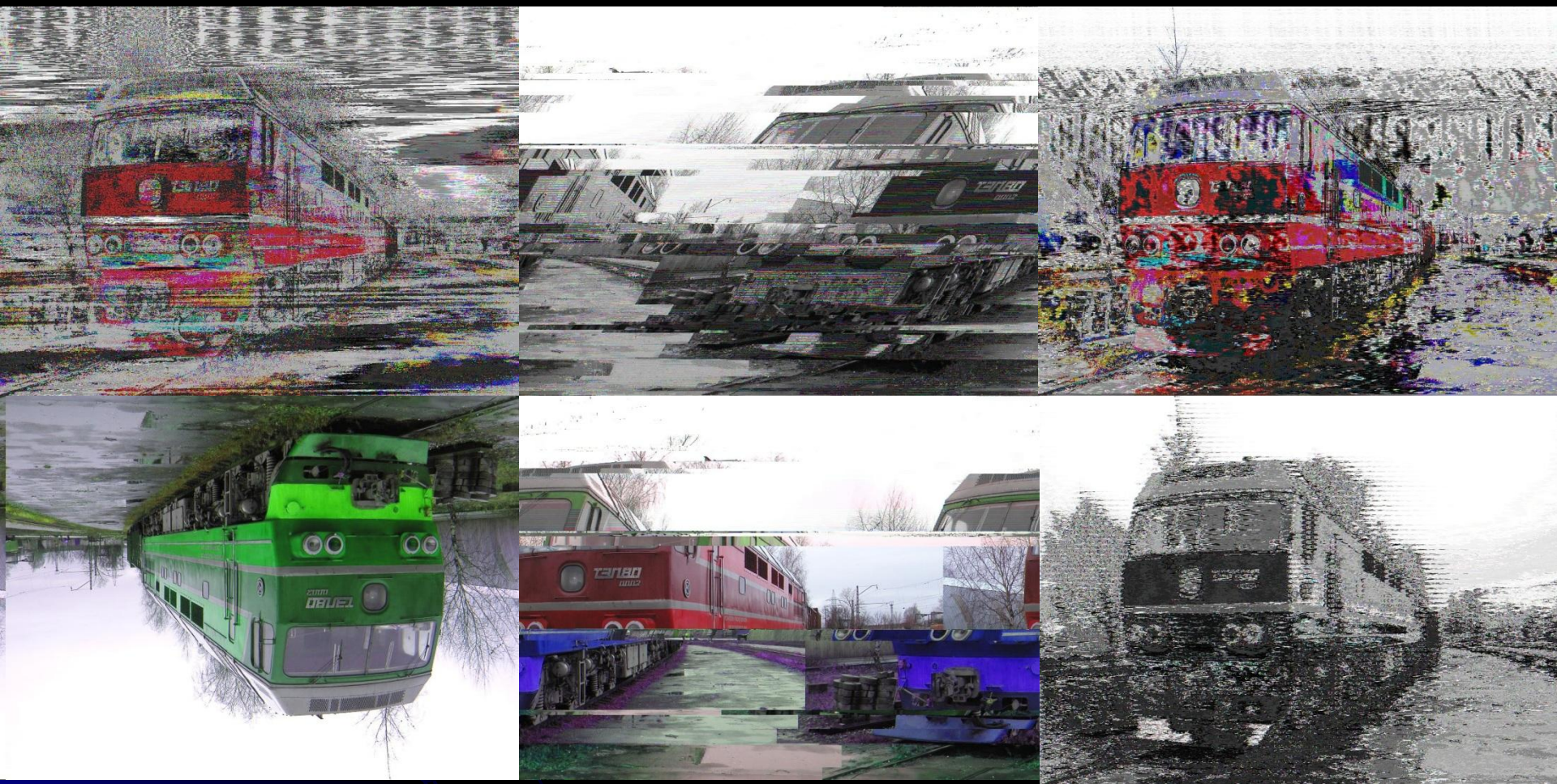
Results and reasons

- Audacity: BMP



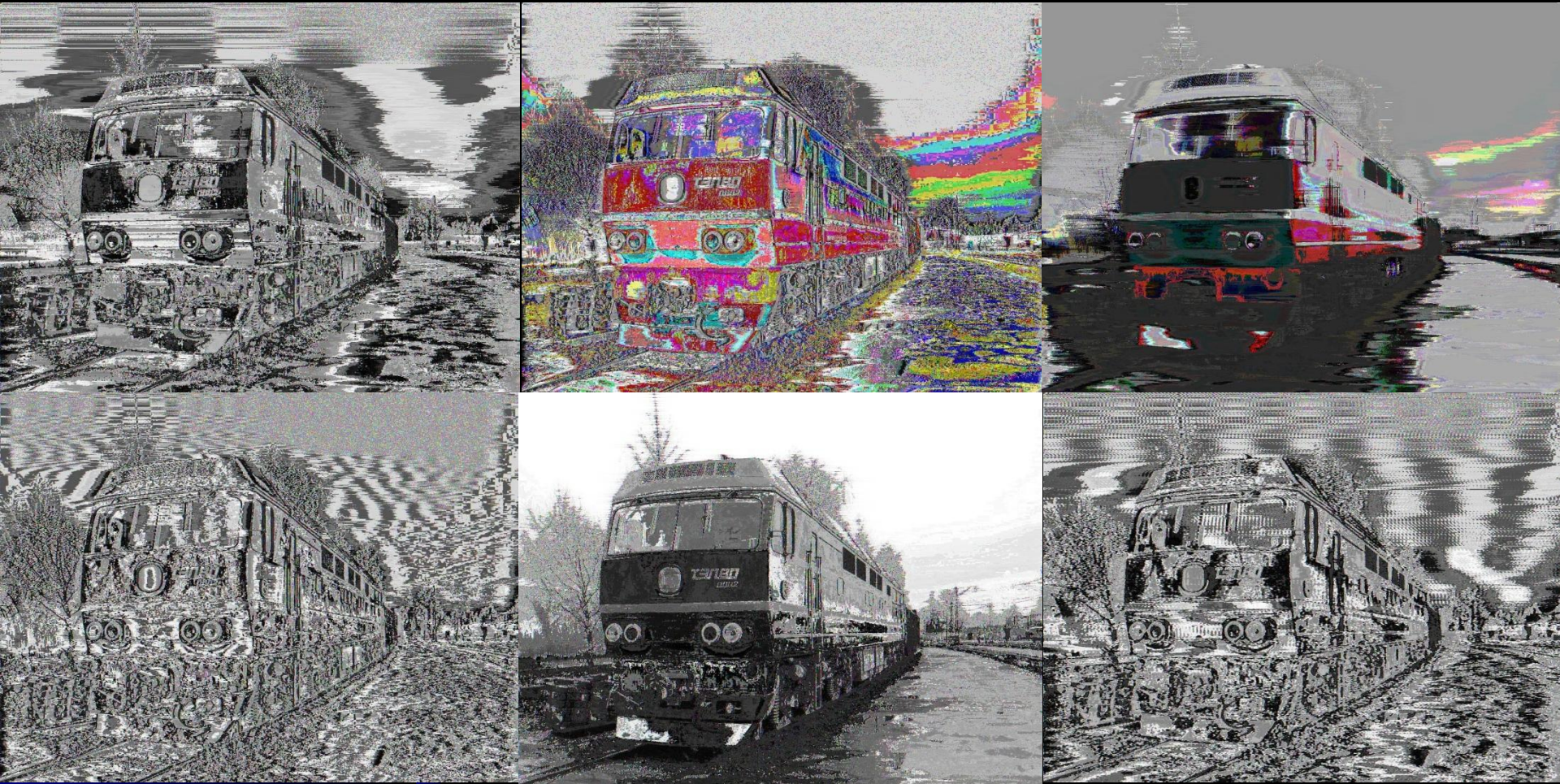
Results and reasons

- Audacity: BMP



Results and reasons

- Audacity: BMP. Equaliser



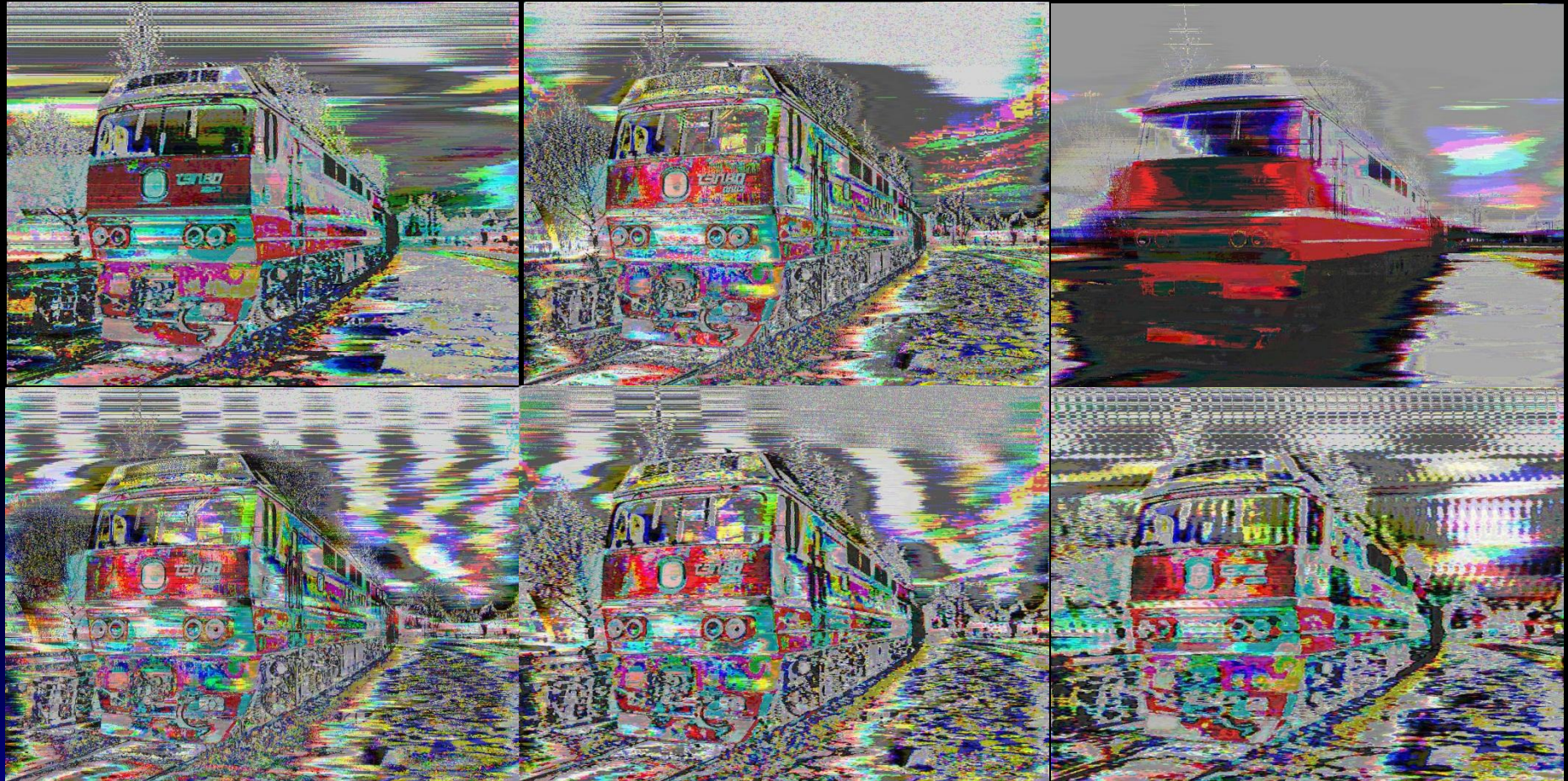
Results and reasons

- Audacity: FIT



Results and reasons

- Audacity: FIT, Equaliser



Results and reasons

- Audacity: JPG



Results and reasons

- **Audacity: PNG**



Results and reasons

- notepad++



Conclusions

- Uncompressed raster image files are the best for databending;
- The result is a little bit unpredictable, so you should have a copy of the original file;
- Text editors don't change the codes of the pixels, but they change other parts of the files like DIB headers which move the pixels;
- Sound editors can change every part of the file.
- .fit files are probably more colourful than .bmp's, but you should download GIMP to work with them.

Thanks for attention!

