intro to steganography

[obligatory joke about how it sounds like stegosaurus]

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crypto - hiding information

steganography - hiding information AND hiding the fact that you hid information

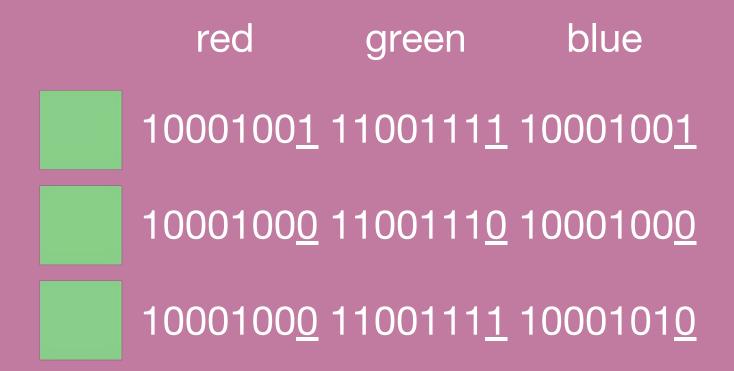
usually done in audio and image files

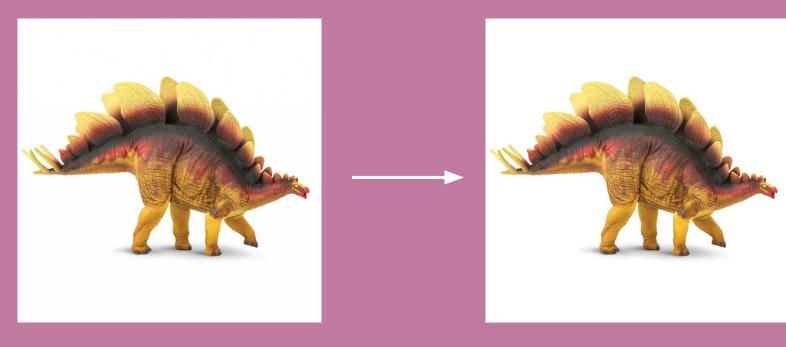
least significant bits

one common tactic (with images) is to use least significant bit (or LSB)

embed the message in the least *x* significant bits of the image

the more bits you use, the more obvious it is that you are hiding a message



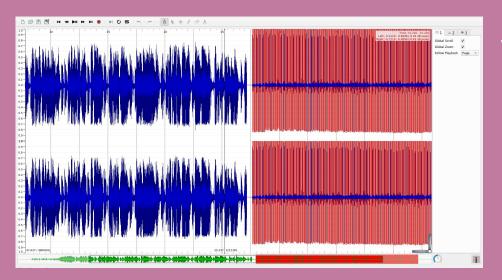


original steg

spectrograms

used to hide text or images in audio files that can only be seen by looking at the spectrogram

you can use a tool like Sonic Visualizer or Audacity (both work on win, *nix, mac) to view the spectrogram



waveform (default)

pane > add spectrogram

spectrogram



other handy tools

strings <file> - shows all strings in that file

xxd <file> - shows a hexdump of that file

binwalk <file> - find embedded files and executable code in binaries