All files can be categorized into one of two file formats: text or binary.

When you write code, that is a text file.

An image file, on the other hand, is a binary file.

Binary files typically contain a sequence of bytes, or ordered groupings of eight bits.
Raster Graphics

Raster Graphics, also referred to as “bitmap” graphics, are binary files.

Raster graphics consist of a grid of picture elements, pixels, each of which contain color and brightness information.

Pixels can be changed individually or as a group with program algorithms.

This is contrast to vector graphics, which describe points and lines.
Web Formats

JPEG
“Joint Photographic Experts Group”

PNG
“Portable Network Graphics”

GIF
“Graphic Interchange Format”

WebP
Up-and-coming image format but not well supported yet
Photoshop was created in 1987 by Thomas Knoll, then a PhD student at the University of Michigan. It was originally called “Display.” Its purpose was to display and manipulate grayscale images scanned into a computer. Display was acquired by Adobe in 1988. It was released as Photoshop 1.0 for Macintosh in 1990. Layer support was introduced in version 3 (c. 1993).
Introduction to Web Design

Raster Graphics