

What the sample files actually show

Live PlumeDocs website, Balanced setting. Measurements use the actual downloaded PDFs.

Sample	Before (bytes)	After (bytes)	Reduction	Render at 150 dpi
Scanned lecture	943,022	942,466	0.059%	Identical RGB pixels
Image-heavy poster	9,129,371	9,128,652	0.008%	Identical RGB pixels
Text document	2,648	1,999	24.51%	Identical RGB pixels
Extra: rewrapped poster	7,304,086	53,592	99.27%	Image pixels changed

Results and limits

The original scan and poster saved less than 0.1%. Their embedded image streams were unchanged. The text document saved 649 bytes, or 24.51%, from an already small file. All three original outputs preserved page geometry, extracted text and the rendered pixels in this check.

The extra poster experiment used the same image content and text with a reversible image-stream wrapper removed. That preparation was visually identical to the original, but it changed the file structure. Its 99.27% product-run reduction is a separate compatibility result, with raster smoothing and color changes. It is not a general savings promise.

Method: exact byte counts, PDF page/text/image inspection, and before/after RGB renders using Poppler at 150 dpi. The following pages show full-page views and matching detail crops at source scale. No input or downloaded PDF was edited during analysis.

Scope: three synthetic samples plus one declared compatibility variant. This maker-commissioned check is not an independent benchmark, security audit, OCR test or accessibility certification. Results may differ for other files, settings, viewers or print workflows.

Tested page: plumedocs.com/compress-pdf. The website setting and downloads were observed in the live workflow; this report does not test or certify upload/privacy behavior.

Scanned lecture: 0.059% smaller

One-page synthetic raster scan. Saved 556 bytes; the embedded JPEG stream is unchanged.

Before: 943,022 bytes

Original input - full page



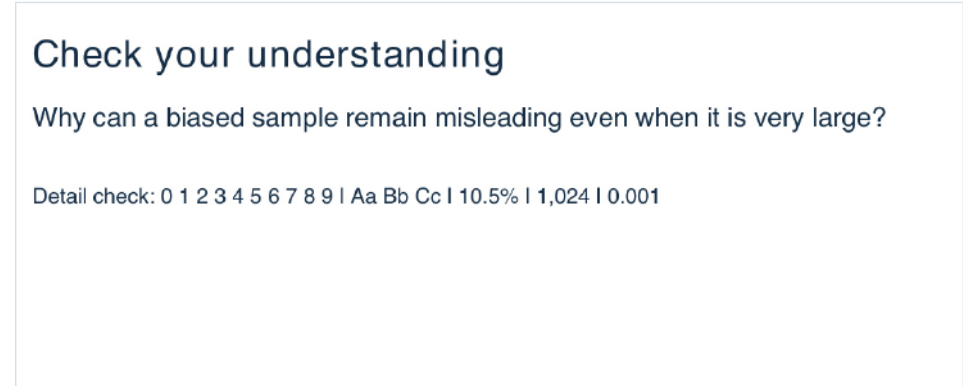
After: 942,466 bytes

Actual Balanced download - full page

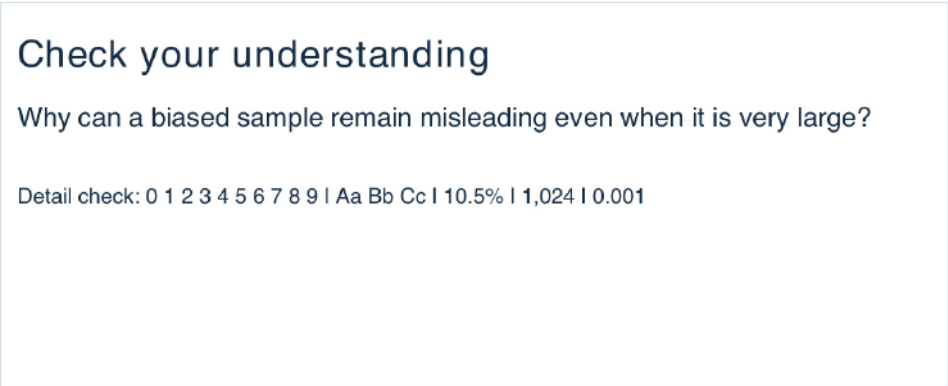


Rendered pixels match exactly. No extractable text layer exists in either file; OCR is not claimed.

Before detail - source scale, 150 dpi



After detail - same crop and scale



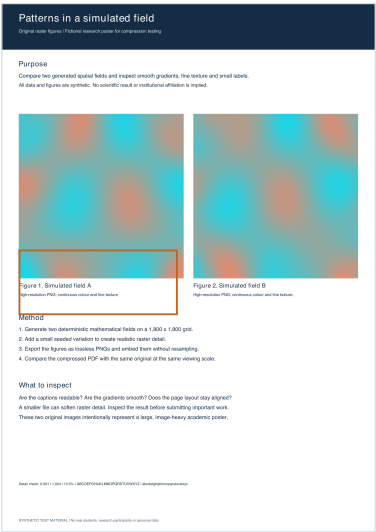
Files: 01-scanned-lecture.pdf / 01-scanned-lecture-balanced.pdf

Image-heavy poster: 0.008% smaller

One-page synthetic poster. Saved 719 bytes; both ASCII85 + Flate image streams are unchanged.

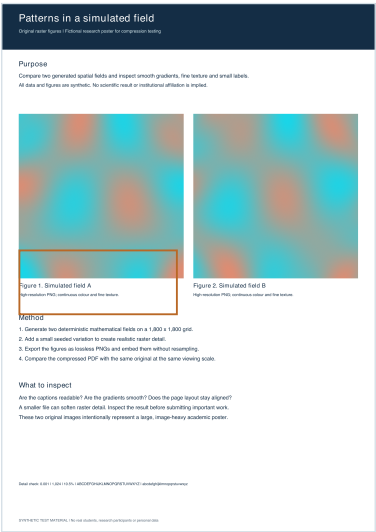
Before: 9,129,371 bytes

Original input - full page



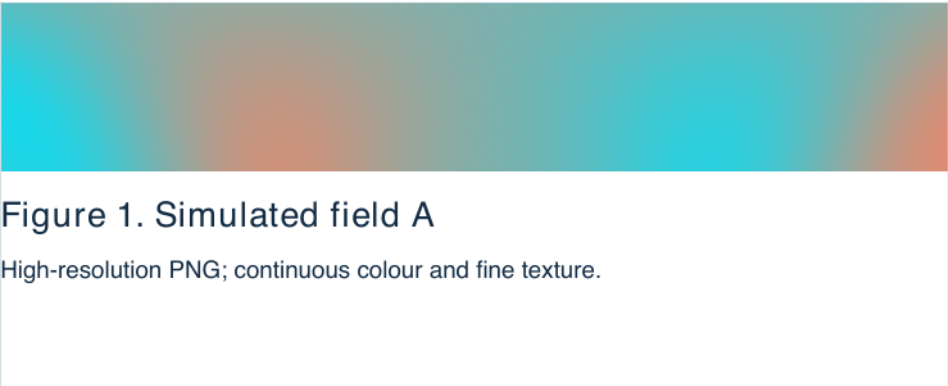
After: 9,128,652 bytes

Actual Balanced download - full page

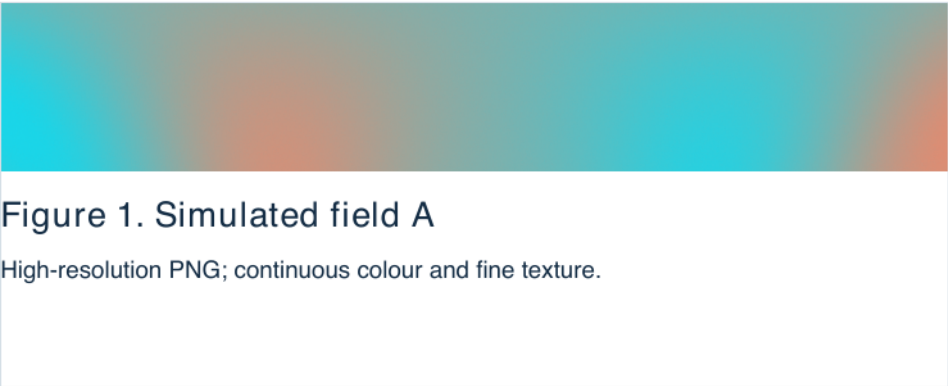


1,246 extracted characters preserved exactly. Rendered pixels match exactly at 150 dpi.

Before detail - source scale, 150 dpi



After detail - same crop and scale

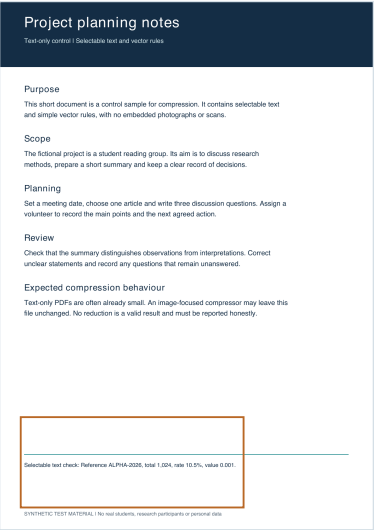


Text document: 24.51% smaller

One-page text-only control. Saved 649 bytes from a 2,648-byte input; there are no embedded images.

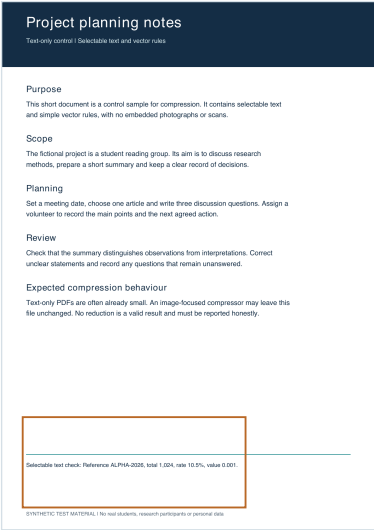
Before: 2,648 bytes

Original input - full page



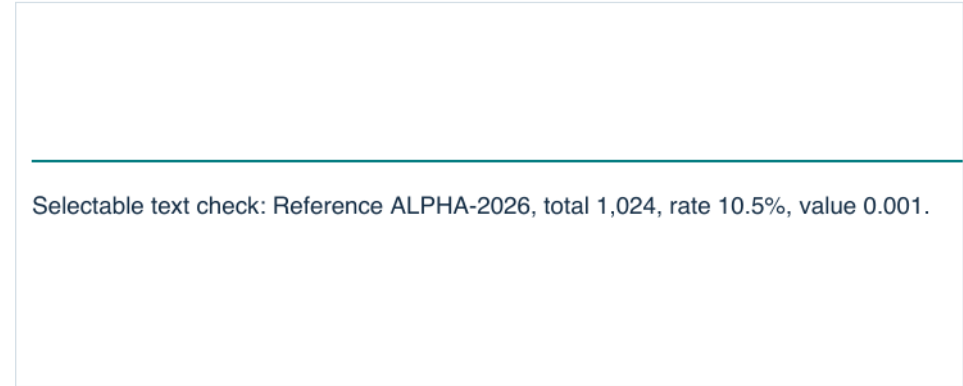
After: 1,999 bytes

Actual Balanced download - full page

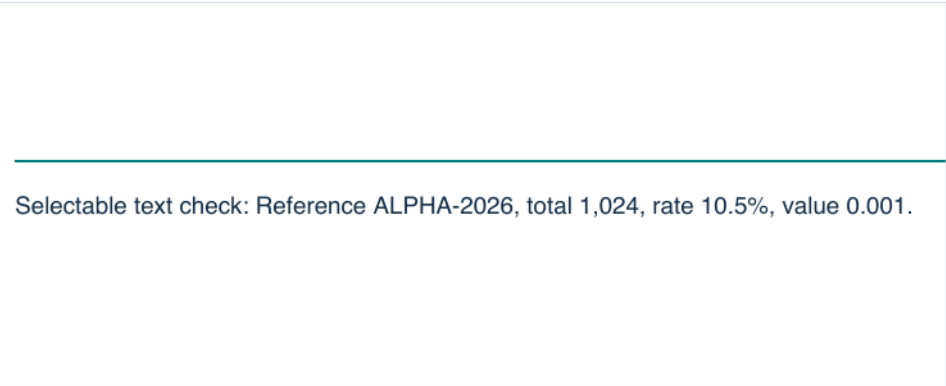


1,063 extracted characters preserved exactly. Page geometry and rendered pixels are unchanged.

Before detail - source scale, 150 dpi



After detail - same crop and scale



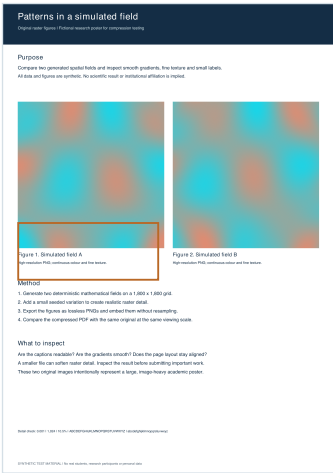
Files: 03-text-document.pdf / 03-text-document-balanced.pdf

Additional test: the same poster, rewrapped

Separate compatibility experiment. The variant input matches the original poster visually at 150 dpi.

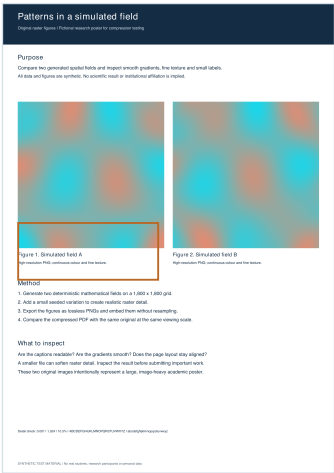
Variant input: 7,304,086 bytes

02-poster-single-filter.pdf



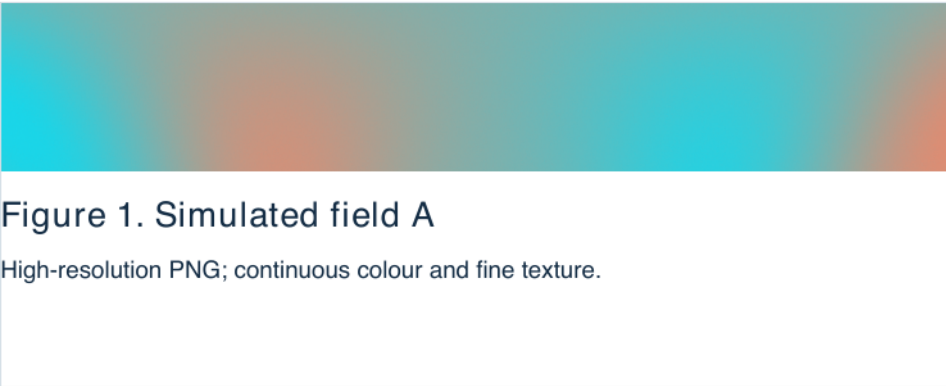
Balanced output: 53,592 bytes

02-poster-single-filter-balanced.pdf

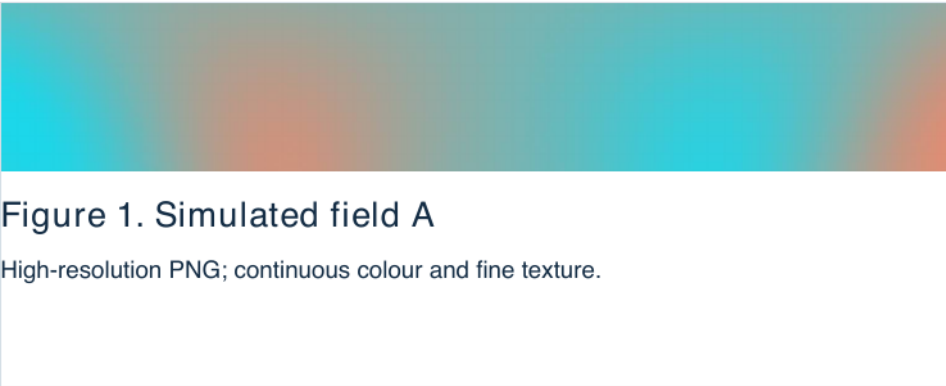


99.27% smaller. Raster images became JPEG and changed from 1,800 x 1,800 to 1,600 x 1,600 pixels. Extracted text and page geometry are preserved. Fine raster texture/color changes are visible; 26.91% of page pixels differ at 150 dpi. This output is not lossless.

Variant detail - source scale, 150 dpi



Output detail - subtle smoothing and color changes



Wrapper removal saved 19.99% before the product run. That preparation saving is excluded from the 99.27% result above.