

- Command-line arguments can now be read from files or standard input using @file or @- syntax. Please see [Section 3.1, “Basic Invocation”, page 4](#).
- **--rotate**: request page rotation
- **--newline-before-endstream**: ensure that a newline appears before every endstream keyword in the file; used to prevent qpdf from breaking PDF/A compliance on already compliant files.
- **--preserve-unreferenced**: preserve unreferenced objects in the input PDF
- **--split-pages**: break output into chunks with fixed numbers of pages
- **--verbose**: print the name of each output file that is created
- **--compress-streams** and **--decode-level** replace **--stream-data** for improving granularity of controlling compression and decompression of stream data. The **--stream-data** option will remain available.
- When running **qpdf --check** with other options, checks are always run first. This enables qpdf to perform its full recovery logic before outputting other information. This can be especially useful when manually recovering broken files, looking at qpdf's regenerated cross reference table, or other similar operations.
- Process **--pages** earlier so that other options like **--show-pages** or **--split-pages** can operate on the file after page splitting/merging has occurred.
- API Changes. All new API calls are documented in their respective classes' header files.
 - *QPDFObjectHandle::rotatePage*: apply rotation to a page object
 - *QPDFWriter::setNewlineBeforeEndstream*: force newline to appear before endstream
 - *QPDFWriter::setPreserveUnreferencedObjects*: preserve unreferenced objects that appear in the input PDF. The default behavior is to discard them.
 - New **Pipeline** types **PI_RunLength** and **PI_DCT** are available for developers who wish to produce or consume RunLength or DCT stream data directly. The *examples/pdf-create.cc* example illustrates their use.
 - *QPDFWriter::setCompressStreams* and *QPDFWriter::setDecodeLevel* methods control handling of different types of stream compression.
 - Add new C API functions *qpdf_set_compress_streams*, *qpdf_set_decode_level*, *qpdf_set_preserve_unreferenced_objects*, and *qpdf_set_newline_before_endstream* corresponding to the new **QPDFWriter** methods.

6.0.0: November 10, 2015

- Implement **--deterministic-id** command-line option and *QPDFWriter::setDeterministicID* as well as C API function *qpdf_set_deterministic_ID* for generating a deterministic ID for non-encrypted files. When this option is selected, the ID of the file depends on the contents of the output file, and not on transient items such as the timestamp or output file name.
- Make qpdf more tolerant of files whose xref table entries are not the correct length.

5.1.3: May 24, 2015

- Bug fix: fix-qdf was not properly handling files that contained object streams with more than 255 objects in them.