

Optional dependencies

Pandas has many optional dependencies that are only used for specific methods. For example, `pandas.read_hdf()` requires the `pytables` package, while `DataFrame.to_markdown()` requires the `tabulate` package. If the optional dependency is not installed, pandas will raise an `ImportError` when the method requiring that dependency is called.

	Dependency	Minimum Version	Notes
0	BeautifulSoup4	4.6.0	HTML parser for read_html (see note)
1	Jinja2		Conditional formatting with DataFrame.style
2	PyQt4		Clipboard I/O
3	PyQt5		Clipboard I/O
4	PyTables	3.4.2	HDF5-based reading / writing
5	SQLAlchemy	1.1.4	SQL support for databases other than sqlite
6	SciPy	0.19.0	Miscellaneous statistical functions
7	XlsxWriter	0.9.8	Excel writing
8	blosc		Compression for HDF5
9	fastparquet	0.3.2	Parquet reading / writing
0	gcsfs	0.2.2	Google Cloud Storage access
1	html5lib		HTML parser for read_html (see note)
2	lxml	3.8.0	HTML parser for read_html (see note)
3	matplotlib	2.2.2	Visualization
4	numba	0.46.0	Alternative execution engine for rolling operations
5	openpyxl	2.5.7	Reading / writing for xlsx files
6	pandas-gbq	0.8.0	Google Big Query access
7	psycopg2		PostgreSQL engine for sqlalchemy
8	pyarrow	0.12.0	Parquet, ORC (requires 0.13.0), and feather reading / writing
9	pymysql	0.7.11	MySQL engine for sqlalchemy
10	pyreadstat		SPSS files (.sav) reading
11	pytables	3.4.2	HDF5 reading / writing
12	pyxlsb	1.0.6	Reading for xlsb files
13	qtpy		Clipboard I/O
14	s3fs	0.3.0	Amazon S3 access
15	tabulate	0.8.3	Printing in Markdown-friendly format (see tabulate)
16	xarray	0.8.2	pandas-like API for N-dimensional data
17	xclip		Clipboard I/O on linux
18	xlrd	1.1.0	Excel reading
19	xlwt	1.2.0	Excel writing
20	xsel		Clipboard I/O on linux
21	zlib		Compression for HDF5

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