

## Preferred File Formats

The choice of file format is of essential importance in order to ensure that the research data will remain usable in the future. 4TU.ResearchData therefore strongly encourages the use of standard, exchangeable or open file formats. For the preferred formats, 4TU.ResearchData guarantees that the research data will remain accessible and that they will be migrated or converted if necessary.

Preferred (sustainable) file formats that receive full preservation	
<b>Text</b>	Plain text, XML, HTML, PDF (PDF/A-1), JSON, PDB (Protein Data Bank), XYZ <i>(all formats should be encoded in UTF-8)</i>
<b>Spreadsheets</b>	CSV (Comma-separated values), Tab-delimited values.
<b>Images</b>	JPEG, TIFF, PNG, SVG
<b>Geospatial</b>	GML (Geographical Mark-up Language), KML (Keyhole Mark-up Language), ESRI Shapefile, Geo-referenced TIFF
<b>Numerical</b>	NetCDF, CSV, JSON
<b>Video</b>	<i>No sustainable format established</i>
<b>Audio</b>	Waveform Audio File Format (WAVE)
<b>Databases</b>	Delimited Flat File w/DDL
<b>Archives</b>	ZIP, TAR, GZIP, 7Z