

Supporting backends in expl3

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What TeX doesn't do

- Colour
- Image inclusion
- Hyperlinks
- PDF constructs
- Tagging
- ...

The classical plain approach

```
Text  
\special{color push rgb 1 0 0}  
Hello world  
\special{color pop}  
Text  
\bye
```

Early LaTeX 2_ε: drivers.dtx

```
%<dvips,      >\ProvidesFile{dvips.def}
%<dvipsnames>\ProvidesFile{dvipsnam.def}
%<dvipdf,     >\ProvidesFile{dvipdf.def}
%<emtex,      >\ProvidesFile{emtex.def}
%<dviwin,     >\ProvidesFile{dviwin.def}
%<dvipsone,   >\ProvidesFile{dvipsone.def}
%<pctexps,    >\ProvidesFile{pctexps.def}
%<pctex32,    >\ProvidesFile{pctex32.def}
%<pctexwin,   >\ProvidesFile{pctexwin.def}
%<pctexhp,    >\ProvidesFile{pctexhp.def}
%<truetetex, >\ProvidesFile{truetetex.def}
%<tcidvi,    >\ProvidesFile{tcidvi.def}
...
```

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- ... but features were added mainly *via* pdfTeX

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- Clearer route for additions *via* GitHub

Coverage

Backends

- pdfTeX
- LuaTeX
- dvips
- dviPDFmx
- xdvipdfmx
- dvisvgm

Concepts

- Colour
- Image inclusion
- Box transformations
- Drawing
- Hyperlinks
- Tagging
- PDF structure