

Abstract

There are two parts to this presentation. In the first part Tom Price will describe a bundle of \LaTeX files designed to build PDF/UA accessible documents from \LaTeX sources using a pdf \LaTeX engine. The bundle takes full advantage of the capabilities of the pdfx.sty and tpdf.sty packages while requiring minimal effort on the part of document authors.

Next, Ross Moore, author of pdfx.sty and tpdf.sty, will discuss how tagging can be achieved within a diagram created using tikz.sty package methods. It is becoming increasingly common to encounter images built this way, so it will be necessary to tag the information in these, so that it becomes accessible to readers with visual disabilities. Ross will demonstrate some promising first steps in this direction; in particular for a 'SWOT analysis' diagram.

The CRDbundle of files

Building accessible Northeast Fisheries Science Center Reference Documents

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The CRDbundle of files

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Center **R**eference **D**ocuments

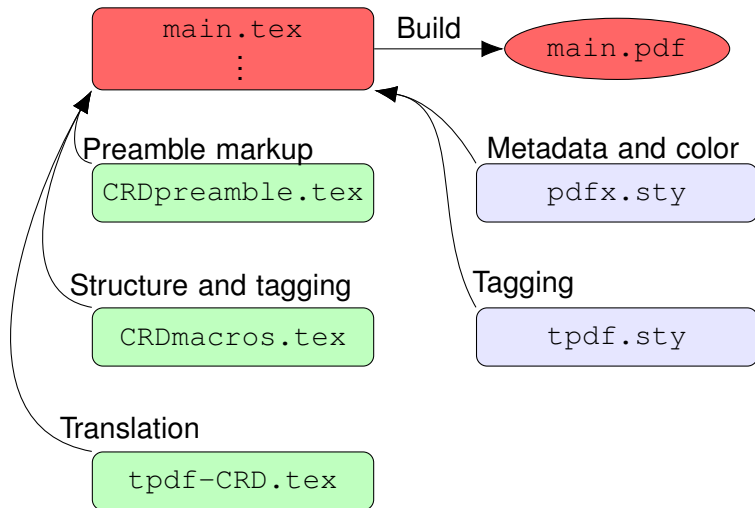
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Goals of the bundle

- ▶ *Build* PDF/UA accessible *Northeast Fisheries Science Center Reference Documents* (CRDs) satisfying **N**ational **O**ceanic and **A**tmospheric **A**dministration (NOAA) publications guidelines.
- ▶ *Minimize* the author input required to build accessible documents.
- ▶ *Eliminate* post-processing accessibility requirements.

Bundle work flow



Sample markup in the template

Metadata and authors

```
\begin{filecontents*}{\jobname.xmlpdata}
  \Title{}%
  \Author{}%
  \Subject{}%
  \Keywords{}%
  \CreatorTool{}%
\end{filecontents*}

...
\Cut{authors}{% Cuts author commands
  \CRDauthor{}, %
  \CRDauthor{}, %
and
  \CRDauthor{} %
} % End Cut
```

Sample CRDpreamble.tex markup

To tag or not to tag

```
1  \ifnotagging% Do not tag this document.
2    \usepackage[a-3u, pdf17, noerr]{pdfx}
3    \usepackage[notags]{tpdf}
4  \else% Tag this document.
5    \usepackage[\pdfxopts]{pdfx}
6    \usepackage{tpdf}
7    \input{tpdf.tex-CRD.tex}% Translate CRD
   macros for tpdf.sty
8  \fi
9  \input{CRDmacros.tex}% Input macros that
   provide for structure and tagging
```

An environment in the CRDmacros.tex file

Format author list for cover page

```
1  \begin{CRDauthors}
2  \sffamily\fontsize{14}{17}\selectfont{
3  \begin{center}
4  by %
5  \Paste{authors}
6  \end{center}
7  \end{CRDauthors}\par
8  \newenvironment{CRDauthorsCover}{%
9  \renewcommand\footnote[2][]{\relax}%
10 \renewcommand\mpfootnotemark{\relax}%
11 \makeatletter
12 \let\author\@CRDauthor
13 \makeatother
14 } % End first argument of CRDauthors
15 { %\end{minipage}
16 } % End second argument of CRDauthors
```


Example of tpdf-CRD.sty markup

```
% \CRDciteas command used in the series page
\let\LTX@CRDciteas\CRDciteas
...
\def\TPDF@CRDciteas #1#2#3#4{%
  \begingroup
  ...
  \endgroup
}
\let\CRDciteas\TPDF@CRDciteas
```

Observations

Included the package `listings.sty`

for marking up \LaTeX

Defined the command

```
\newcommand\TPdfSty{\CRDcodefile{\linline+tpdf.sty+}}
```

- ▶ Typesets `tpdf.sty`
- ▶ The `\CRDcodefile{...}` command simplifies tagging

Surprised by URL font

```
\urlstyle{tt}
```

Tagging considerations improved

The organization, structure, and quality of my \LaTeX markup

Acknowledgements and references

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Reference list

1. Radhakrishnan C, Thanh HT, Moore R, Selinger P. 2015. Generating PDF/X-and PDF/A-compliant PDFs with pdfTEX-pdfx.sty . Maintainer: Ross Moore, TUGboat TUG 2015 proceedings 36 (2): 136– 142.
2. Moore, R. 2018. Authoring accessible 'Tagged PDF' documents using LATEX. TUGboat, 39(2), 148. See the video at <https://www.youtube.com/watch?v=mPBtkCsChJw> (Date accessed: July 16, 2020)
3. Moore, R. 2020. Tagging with LATEX — Part 1: author considerations. TUG 2020 Online. Preprint: July 14, 2020. <https://tug.org/tug2020/preprints/Moore-Musings.pdf> (Date accessed: July 23, 2020)

Thank You!