

```
%PDF-1.6
%Ð   
3 0 obj << /Length 346 >>
stream BT
/F28 17.2154 Tf 149.102 665.282 Td [(WHY)-250(WE)-250(DO)-250(NO)40(T)-250
(A)55(CCEPT)-250(PDF)-250(FILES)]TJ 86.197 -21.918 Td [(FR)30(OM)-250(A)50(UTHORS)]
TJ/F29 11.9552 Tf 27.992 -28.891 Td [(V)129(olk)10(er)-250(R) 55(W)-250(Schaa)]
TJ -20.33 -13.948 Td [(GSI,-)-250(Darmstadt,-)-250(German)15(y)]TJ/F29 9.9626 Tf 60.172
-461.27 Td [(1)] TJ ET
endstream
endobj
2 0 obj << /Type /Page /Contents 3 0 R /Resources 1 0 R /
MediaBox [0 0 595.276 792.10] /Parent 6 0 R
>> endobj
1 0 obj << /Font << /F28 4 0 R /F29 5 0 R >> /ProcSet [ /PDF /Text ]
>> endobj
8 0 obj
[250 333 250 278 500 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921
722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
/ItalicAngle 0 /StemV 85 /XHeight 450
/CharSet (/D/G/I/R/S/V/W/a/c/comma/d/e/h/k/l/m/n/o/one/r/s/t/y)
/FontFile 12 0 R
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O/P 82/R/S
/T/U/V/W 89/Y 97/a 99/c/d/e 104/h 107/k/l/m/n/o 114/r/s/t 121/y]
>> endobj
4 0 obj << /Type /Font /Subtype /Type1
/BaseFont /Times-Bold
/FontDescriptor 11 0 R
/FirstChar 65 /LastChar 89
/Widths 9 0 R /Encoding 7 0 R
>> endobj
5 0 obj <<
/Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
/Widths 8 0 R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298E869B5538AEED2243D48B4>
<575106298E869B5538AEED2243D48B4>] >>
startxref 22978
%%EOF
```

Why We Do Not Accept Author-Generated PDFs

To ensure special settings like

```
>> endobj
7 0 obj << /Type /Encoding
```

To ensure special settings like

TJ -20.

722	34	
500	278	

endobj

```
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 77
```

```
/FontName /Times-Bold
```

```
/Flags 4 /FontBBox [-168 -341 1000 960]
```

```
/Ascent 690 /Capheight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 463
```

```
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
```

```

14 u obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 00000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [
```

Reasons for not accepting author PDFs

```
stream BT
/F28 17 3154 T5 140 183 655 283 T4 (HMM) 350 (HMT) 350 (D0) 350 (H0) 140 (T) 350
(A)55 (U)
TJ /F29
TJ -20
-461.27
endstream
endobj
2 0 obj
MediaBox [0 0 1000 1000]
>> endobj
1 0 obj
>> endobj
8 0 obj
[250 33
722 66
722 94
500 276]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
1 0 obj << /Type /Encoding
/ToUnicode 1 0 R >>
endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E869B5538AEED2243D48B4>
<575106298E869B5538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```

'R/S

To ensure special settings like

- Acrobat 7 compatibility (PDF 1.6)

Reasons for not accepting author PDFs

```
stream BT
/F28 17 3154 T5 140 183 655 283 T4 (HMM) 350 (HMT) 350 (D0) 350 (H0) 140 (T) 350
(A)55 (U)
TJ /F29
TJ -20
-461.27
endstream
endobj
2 0 obj
MediaBox [0 0 1000 1000]
>> endobj
1 0 obj
>> endobj
8 0 obj
[250 33
722 66
722 94
500 276]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
1 0 obj << /Type /Encoding
>> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E8B69B5538AEED2243D48B4>
<575106298E8B69B5538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```

/R/5

To ensure special settings like

- Acrobat 7 compatibility (PDF 1.6)
- Images Downsampled to 300/1200 dpi (color/monochrome)

Reasons for not accepting author PDFs

To ensure special settings like

- Acrobat 7 compatibility (PDF 1.6)
- Images Downsampled to 300/1200 dpi (color/monochrome)
- Font embedding for all fonts (even for the 35 of the Core Font Set).

```
stream BT
/F28 17 3154 T5 140 183 655 383 T4 (HMM) 350 (HMM) 350 (HMM) 350 (HMM) 350
(A)550
TJ/F28
TJ -20
-461.27
endstream
endobj
2 0 obj
MediaBox [0 0 1000 1000]
>> endobj
1 0 obj
>> endobj
8 0 obj
[250 33
722 66
722 94
500 276
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
1 0 obj << /Type /Encoding
/R/S
```

```
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298EB869B5538AEED2243D48B4>
<575106298EB869B5538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```

Reasons for not accepting author PDFs

```
stream BT
/F28 17 3154 T5 140 183 655 383 T4 (HMM) 350 (HMT) 350 (D0) 350 (H0) 140 (T) 350
```

```
>> endobj
1 0 obj << /Type /Encoding
```

To ensure special settings like

/R/5

- Acrobat 7 compatibility (PDF 1.6)
- Images Downsampled to 300/1200 dpi (color/monochrome)
- Font embedding for all fonts (even for the 35 of the Core Font Set).
- Ensure JACoW paper size.

```
(A)550
TJ/F28
TJ -20
-461.27
endstream
endobj
2 0 obj
<> endobj
1 0 obj
<> endobj
8 0 obj
[250 33
722 66
722 94
500 276
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298EB869B5538AEED2243D48B4>
<575106298EB869B5538AEED2243D48B4>] >>
startxref 22978
%%EOF
```

Sustainability

```
stream BT
/F28 17 3154 Tf 140 183 655 283 Td (HWP) 350 (WP) 350 (DP) 350 (NP) 140 (T) 350
(A) 55 (
TJ /F29
TJ -20.
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descent
```

```
>> endobj
3 0 obj << /Type /Encoding
'R/5

1'00')
40.12))

00000 n
00000 n
00000 n
00000 n
```

Reason behind these requirements

Sustainability

Reason behind these requirements

- JACoW wants to ensure PDF/A compatibility which is important for the digital preservation of electronic documents (long-term archival, sustainability).

```
stream BT
/F28 17 3154 T5 140 183 655 283 T4 (H4X) 350 (H4) 350 (D0) 350 (H0) 140 (T) 350
(A)55 (0
TJ/F29
TJ -20.
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descent
```

```
>> endobj
```

```
7 0 obj << /Type /Encoding
```

/R/5

(1'00')
40.12))

00000 n
00000 n
00000 n
00000 n

Sustainability

Reason behind these requirements

- JACoW wants to ensure PDF/A compatibility which is important for the digital preservation of electronic documents (long-term archival, sustainability).
- PDF/A differs from PDF by omitting features which are ill-suited to long-term archiving, such as font linking (as opposed to font embedding).

```
stream BT
/F28 17 3154 T5 140 183 655 283 T4 (HMM) 350 (MM) 350 (DD) 350 (NO) 10 (T) 350
(A)55 (O
TJ /F29
TJ -20.
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descent
```

```
>> endobj
7 0 obj << /Type /Encoding
```

/R/5

(1'00')
40.12))

00000 n
00000 n
00000 n
00000 n

Sustainability

Reason behind these requirements

- JACoW wants to ensure PDF/A compatibility which is important for the digital preservation of electronic documents (long-term archival, sustainability).
- PDF/A differs from PDF by omitting features which are ill-suited to long-term archiving, such as font linking (as opposed to font embedding).
- Key elements to PDF/A compatibility are:
 - Audio and video content are forbidden.
 - JavaScript and executable file launches are forbidden.
 - **All** fonts must be embedded. This also applies to the PostScript standard fonts such as Times/Helvetica/etc (Basic 35).
 - Encryption is forbidden.
 - External content references are forbidden (no links!).
 - ...

```
stream BT
/F28 17 3154 T5 140 183 655 383 T4 (HMM) 350 (H) 350 (D) 350 (H) 140 (T) 350
(A)55 (
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBc
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontF1
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descent
```

```
>> endobj
3 0 obj << /Type /Encoding
'R/5

(1'00')
40.12))

00000 n
00000 n
00000 n
00000 n
```

Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17 3154 Tf 140 183 655 283 Td (HWP) 350 (WP) 350 (DP) 350 (NP) (T) 350
(A)55 (
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags 4
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
3 0 obj << /Type /Encoding
'R/S

(1'00')
40.12))

00000 n
00000 n
00000 n
00000 n

startxref 22978
%%EOF
```

How do we ensure these settings starting from the PS?

Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17 3154 Tf 140 183 655 283 Td (H40X) 350(0W) 350(0H) 350(0L)0(0T) 350
(A)55(0
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags 4
/Ascent 678 /CapHeight 651
/Descent -216
startxref 22978
%%EOF
```

How do we ensure these settings starting from the PS?

- We set the PDF version=1.6 when distilling the PS
or
when the PDF Optimizer is run.

'R/5

(1'00')
40.12))

00000 n
00000 n
00000 n
00000 n

Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17 3154 Tf 140 183 655 283 Td (HAW) 350 (W) 350 (D) 350 (H) 140 (T) 350
(A)55 (O
TJ /F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBc
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontF1
>> endc
12 0 ob
/Type /
/FontNa
/Flags 4
/Ascent 678 /CapHeight 651
/Descent -216
startxref 22978
%%EOF
```

How do we ensure these settings starting from the PS?

- We set the PDF version=1.6 when distilling the PS
or
when the PDF Optimizer is run.
- Images are downsampled when distilling the PS
or
when the PDF Optimizer is run.

'R/5

(1'00')
40.12))

00000 n
00000 n
00000 n
00000 n

How do we ensure these settings starting from the

'R/S

- (1'00')
(40.12))


```
startxref 22978
%%EOF
```

Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17 3154 T5 140 183 655 283 T4 (HMM) 350(WH) 350(DO) 350(HO)40(T) 350
(A)5510
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags 4
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
3 0 obj << /Type /Encoding
/R/5
```

How do we ensure these settings starting from the PS?

- We set the PDF version=1.6 when distilling the PS
or
when the PDF Optimizer is run.
- Images are downsampled when distilling the PS
or
when the PDF Optimizer is run.
- Fonts must be embedded in the PS, otherwise we cannot embed them as this is not foreseen by Acrobat Distiller.
 No chance to fix this in the current setup.

```
(1'00')
40.12))
```

```
00000 n
00000 n
00000 n
00000 n
```


```
startxref 22978
%%EOF
```


Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17 2154 75 140 183 655 283 74 (HMM) 350(WH) 350(DH) 350(HO)40(T) 350
(A)55(
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endo
1 0 obj
>> endo
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endo
12 0 ob
/Type /
/FontNa
/Flags 4
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
1 0 obj << /Type /Encoding
(R/S
```

How do we ensure these settings starting from the PS?

- We set the PDF version=1.6 when distilling the PS
or
when the PDF Optimizer is run.
- Images are downsampled when distilling the PS
or
when the PDF Optimizer is run.
- Fonts must be embedded in the PS, otherwise we cannot embed them as this is not foreseen by Acrobat Distiller.
 No chance to fix this in the current setup.
- JACoW paper size is enforced by executing the PitStop Action List
or
when the PDF Optimizer is run.

```
(1'00')
40.12))
```

```
00000 n
00000 n
00000 n
00000 n
```

```
startxref 22978
%%EOF
```

Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17.2154 Tf 149.102 665.282 Td [(WHY)-250(WE)-250(DO)-250(NO)40(T)-250
(A)55(CCEPT)-250(PDF)-250(FILES)]TJ 86.197 -21.918 Td [(FR)30(OM)-250(A)50(UTHORS)]
TJ/F29 11.9552 Tf 27.992 -28.891 Td [(V)129(olk)10(er)-250(R) 55(W)-250(Schaa)]
TJ -20.33 -13.948 Td [(GSI,)-250(Darmstadt,)-250(German)15(y)]TJ/F29 9.9626 Tf 60.172
-461.27 Td [(1)] TJ ET
endstream
endobj
2 0 obj << /Type /Page /Contents 3 0 R /Resources 1 0 R /
MediaBox [0 0 595.276 792.10] /Parent 6 0 R
>> endobj
1 0 obj << /Font << /F28 4 0 R /F29 5 0 R >> /ProcSet [ /PDF /Text ]
>> endobj
8 0 obj
[250 333 250 278 500 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921
722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O/P 82/R/S
/T/U/V/W 89/Y 97/a 99/c/d/e 104/h 107/k/l/m/n/o 114/r/s/t 121/y]
>> endobj
4 0 obj << /Type /Font /Subtype /Type1
/BaseFont /Times-Bold
/FontDescriptor 11 0 R
/FirstChar 65 /LastChar 89
/Widths 9 0 R /Encoding 7 0 R
>> endobj
5 0 obj <<
/Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
/Widths 8 0 R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E869B538AEED2243D48B4>
<575106298E869B538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```

Ensuring the JACoW and PDF/A settings

```
stream BT
/F28 17 3154 75 140 183 655 283 34 (HMM) 350(HM) 350(DO) 350(HO)40(T) 350
```

The following options can be guaranteed using PDF Optimizer on a PDF file

- PDF version compatibility
- Downsampling
- JACoW paper size

```
(A)550
TJ/F29
TJ -20
-461.2
endstream
endobj
2 0 obj
MediaBox
>> endobj
1 0 obj
>> endobj
8 0 obj
[250 330
```

```
722 667 607 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
```

```
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
```

```
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
```

```
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
```

```
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
```

```
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
```

```
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
```

```
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
/Widths 0 0 R /Encoding 7 0 R
```

```
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
```

```
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
```

```
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
```

```
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
```

```
xref
0 16
```

```
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
```

```
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
```

```
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E869B538AEED2243D48B4>
```

```
<575106298E869B538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```


The following options can be guaranteed using PDF Optimizer on a PDF file

- PDF version compatibility
- Downsampling
- JACoW paper size

Only on PS files with the correct font setup (JACoW PS Printer)

- Font Embedding

Do we fulfill PDF/A standard for our conferences?

Not embedding fonts means that we do not produce our PDFs according to PDF/A standards, which makes the portability and long-term archiving problematic or even questionable.

What about current conferences?

```
stream BT
/F28 17.2154 Tf 149.102 665.282 Td [(WHY)-250(WE)-250(DO)-250(NO)40(T)-250
(A)55(CCEPT)-250(PDF)-250(FILES)]TJ 86.197 -21.918 Td [(FR)30(OM)-250(A)50(UTHORS)]
TJ/F29 11.9552 Tf 27.992 -28.891 Td [(V)129(olk)10(er)-250(R) 55(W)-250(Schaa)]
TJ -20.33 -13.948 Td [(GSI,)-250(Darmstadt,)-250(German)15(y)]TJ/F29 9.9626 Tf 60.172
-461.27 Td [(1)] TJ ET
endstream
endobj
2 0 obj << /Type /Page /Contents 3 0 R /Resources 1 0 R /
MediaBox [ 0 0 595.276 792.10] /Parent 6 0 R
>> endobj
1 0 obj << /Font << /F28 4 0 R /F29 5 0 R >> /ProcSet [ /PDF /Text ]
>> endobj
8 0 obj
[250 333 250 278 500 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921
722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O/P 82/R/S
/T/U/V/W 89/Y 97/a 99/c/d/e 104/h 107/k/l/m/n/o 114/r/s/t 121/y]
>> endobj
4 0 obj << /Type /Font /Subtype /Type1
/BaseFont /Times-Bold
/FontDescriptor 11 0 R
/FirstChar 65 /LastChar 89
/Widths 9 0 R /Encoding 7 0 R
>> endobj
5 0 obj <<
/Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
/Widths 8 0 R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E8B69B538AEED2243D48B4>
<575106298E8B69B538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```


What about current conferences?

```
stream BT                                                    >> endobj
/F2R 17 3154 Tf 140 103 665 283 Td [ /WAV 350 /WFI 350 /D0 350 /H0140 /T1 350 7 0 obj << /Type /Encoding
```

The number of papers which do not have fonts embedded

- IPAC2011 had 515 out of 1245 papers, that means 41.4 %.

But that's much better than all other conferences before, i. e.

- EPAC2008 had 830 papers out of 1229, that's 67.5%.

Why better?

We can see that since Raphael published the JACoW PS driver/printer the numbers are getting better.

or

Has the overall quality of the source/PS files delivered by authors grown so much worse that editors have to do a lot more re-generating PS files (number of initial ● dots?).

```
12 0 obj
<<
  /Type /FontDescriptor
  /FontName /TimesRoman
  /Flags 4 /FontBBox [-168 -281 1000 924]
  /Ascent 678 /CapHeight 651
  /Descent -216
  /FontFile2
  >>
endobj
```

```
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298EB869B5538AEED2243D4BB4>
<575106298EB869B5538AEED2243D4BB4>] >>
startxref 22978
%%EOF
```


What about current conferences?

```
stream BT
/F28 17.2154 Tf 149.102 665.282 Td [(WHY)-250(WE)-250(DO)-250(NO)40(T)-250
(A)55(CCEPT)-250(PDF)-250(FILES)]TJ 86.197 -21.918 Td [(FR)30(OM)-250(A)50(UTHORS)]
TJ/F29 11.9552 Tf 27.992 -28.891 Td [(V)129(olK)10(er)-250(R) 55(W)-250(Schaa)]
TJ -20.33 -13.948 Td [(GSI,)-250(Darmstadt,)-250(German)15(y)]TJ/F29 9.9626 Tf 60.172
-461.27 Td [(1)] TJ ET
endstream
endobj
2 0 obj << /Type /Page /Contents 3 0 R /Resources 1 0 R /
MediaBox [0 0 595.276 792.10] /Parent 6 0 R
>> endobj
1 0 obj << /Font << /F28 4 0 R /F29 5 0 R >> /ProcSet [ /PDF /Text ]
>> endobj
8 0 obj
[250 333 250 278 500 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921
722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O/P 82/R/S
/T/U/V/W 89/Y 97/a 99/c/d/e 104/h 107/k/l/m/n/o 114/r/s/t 121/y]
>> endobj
4 0 obj << /Type /Font /Subtype /Type1
/BaseFont /Times-Bold
/FontDescriptor 11 0 R
/FirstChar 65 /LastChar 89
/Widths 9 0 R /Encoding 7 0 R
>> endobj
5 0 obj <<
/Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
/Widths 8 0 R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E8B69B5538AEED2243D48B4>
<575106298E8B69B5538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```


What about current conferences?

So what do we see?

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.

```
stream BT
/F28 17 3154 75 140 183 655 283 74 114001 350/001 350/001 350/001/01 350
(A)550
TJ/F29
TJ -20.
-461.27
endstream
endobj
2 0 obj
<<
MediaBox [0 0 1000 1000]
/Type /Catalog
>>
endobj
1 0 obj
<<
/Type /Page
>>
endobj
8 0 obj
<<
/Type /Page
>>
endobj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
<<
/Type /Page
>>
endobj
667 722 722 1000 122 122]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
>> endobj
/R/S
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298EB869B5538AEED2243D48B4>
<575106298EB869B5538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.
- It is hard to enforce the usage of our PS printer.

What about current conferences?

So what do we see?

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.
- It is hard to enforce the usage of our PS printer.
- IPAC2011 had 871 papers produced on Windows (70.0 %), where the use of the JACoW PS printer would be possible.

```
stream BT
/F28 17 3154 75 140 183 655 283 74 (HMM) 350 (MM) 350 (DD) 350 (NO) 140 (T) 350
(A)55 (O)
TJ /F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722 722 1000 122 122]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298E8B69B5538AEED2243D4BB4>
<575106298E8B69B5538AEED2243D4BB4> ] >>
startxref 22978
%%EOF
```

'R/S

What about current conferences?

```
stream BT
/F28 17 3154 75 140 183 655 283 74 (MMX) 350(MM) 350(DO) 350(HO)10(T) 350
```

```
(A)55(
TJ/F29
TJ -20.
-461.27
endstre
endobj
2 0 obj
<> endc
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722 722 1000 122 122]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
```

R/S

So what do we see?

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.
- It is hard to enforce the usage of our PS printer.
- IPAC2011 had 871 papers produced on Windows (70.0 %), where the use of the JACoW PS printer would be possible.
- What about the 223 Mac, 145 Linux, 12 Unix papers (30.0 %)?

```
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [ <575106298EB869B5538AEED2243D48B4>
<575106298EB869B5538AEED2243D48B4> ] >>
startxref 22978
%%EOF
```

What about current conferences?

So what do we see?

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.
- It is hard to enforce the usage of our PS printer.
- IPAC2011 had 871 papers produced on Windows (70.0 %), where the use of the JACoW PS printer would be possible.
- What about the 223 Mac, 145 Linux, 12 Unix papers (30.0 %)?

What can we change?

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What can we change?

- not much?

```
stream BT
/F28 17 3154 Tf 140 183 655 283 Td (HAWK) 350 (HAWK) 350 (HAWK) 350 (HAWK) Td
(A)55 (
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722 722 1000 122 122)
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent 670 /Copyright 021
/Descent -216
```

```
>> endobj
1 0 obj << /Type /Encoding
(R/S
1'00')
40.12))
00000 n
00000 n
00000 n
00000 n
%%EOF
```


So what do we see?

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.
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- IPAC2011 had 871 papers produced on Windows (70.0 %), where the use of the JACoW PS printer would be possible.
- What about the 223 Mac, 145 Linux, 12 Unix papers (30.0 %)?

- not much?
- I think we can! Yes!!

stream BT >> endobj

/F28 17 3154 Tc 140 103 665 383 Td (MM) 350(M) 350(0) 350(M)140(T) 350 7 0 obj << /Type /Encoding

(A)55(0

TJ/F29

TJ -20,

So what do we see?

'R/S

```
667 722 7'Z 1000 1Z 1Z] >> endobj
endobj 15 0 obj <<
```

(1'00')
(40.12))


- I think we can! Yes!!
- I'm sure it might get much better if we accept PDF from authors!

What about current conferences?

So what do we see?

- People who deliver directly usable PostScript files AND have the fonts embedded is still too low.
- It is hard to enforce the usage of our PS printer.
- IPAC2011 had 871 papers produced on Windows (70.0 %), where the use of the JACoW PS printer would be possible.
- What about the 223 Mac, 145 Linux, 12 Unix papers (30.0 %)?

What can we change?

- not much?
 - I think we can! Yes!!
 - I'm sure it might get much better if we accept **PDF** from authors!
-  so let me change the title of my talk and justify my claim.

```
stream BT
/F28 17 3154 Tf 140 187 655 283 Td (HAWK) 350 (HAWK) 350 (HAWK) 350 (HAWK) Td
(A)55 (
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722 722 1000 122 122)
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontF
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent 670 /Copyright 021
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
(R/S
(1'00')
40.12))
00000 n
00000 n
00000 n
00000 n
%%EOF
```

Why Don't We Accept Author-Generated PDFs?

```
/ItalicAngle 0 /SmV 85 /XHeight 450
/CharSet (/D/G/I/R/S/V/W/a/c/comma/d/e/h/k/l/m/n/o/one/r/s/t/y)
/FontFile 12 0 R
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O P 82/R/S
```

```
%Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
Schaa R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
nenforschung mbH R
rmayn <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
Meeting,
xref
China
11
00000006535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
00000022316 00000 n 00000022482 00000 n 00000022649 00000 n 00000022143 00000 n
00000000608 00000 n 00000000937 00000 n 0000001055 00000 n 00000010072 00000 n
00000010338 00000 n 00000021862 00000 n 00000022706 00000 n 00000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298EB869B538AEED2243D4BB4>
<575106298EB869B538AEED2243D4BB4>] >>
startxref 22978
%%EOF
```

Reasoning pro author PDFs

```
stream BT
/F28 17.2154 Tf 149.102 665.282 Td [(WHY)-250(WE)-250(DO)-250(NO)40(T)-250
(A)55(CCEPT)-250(PDF)-250(FILES)]TJ 86.197 -21.918 Td [(FR)30(OM)-250(A)50(UTHORS)]
TJ/F29 11.9552 Tf 27.992 -28.891 Td [(V)129(olk)10(er)-250(R) 55(W)-250(Schaa)]
TJ -20.33 -13.948 Td [(GSI,)-250(Darmstadt,)-250(German)15(y)]TJ/F29 9.9626 Tf 60.172
-461.27 Td [(1)] TJ ET
endstream
endobj
2 0 obj << /Type /Page /Contents 3 0 R /Resources 1 0 R /
MediaBox [0 0 595.276 792.10] /Parent 6 0 R
>> endobj
1 0 obj << /Font << /F28 4 0 R /F29 5 0 R >> /ProcSet [ /PDF /Text ]
>> endobj
8 0 obj
[250 333 250 278 500 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921
722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O/P 82/R/S
/T/U/V/W 89/Y 97/a 99/c/d/e 104/h 107/k/l/m/n/o 114/r/s/t 121/y]
>> endobj
4 0 obj << /Type /Font /Subtype /Type1
/BaseFont /Times-Bold
/FontDescriptor 11 0 R
/FirstChar 65 /LastChar 89
/Widths 9 0 R /Encoding 7 0 R
>> endobj
5 0 obj <<
/Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
/Widths 8 0 R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [

```

Reasoning pro author PDFs

```
stream BT
/F28 17 2154 Tf 140 102 665 282 Td [(H8Y) 250(ME) 250(DO) 250(MO)40(T) 250
```

```
>> endobj
7 0 obj << /Type /Encoding
```

I've tested this approach since 2009 when I told \LaTeX people to upload their pdf \LaTeX generated PDFs as “Other supporting files”. What I found:

'R/S

```

0 obj
MediaBc
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 obj
/Length
/Type /
/FontName
/Flags
/Ascent 650 /CapHeight 650 /Descent -200 /XHeight 461
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216

```

```

0000000000 65535 f 00000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000001038 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298EB869B5538AEED2243D4BB4>]
<575106298EB869B5538AEED2243D4BB4>] >>
startxref 22978
%%EOF

```

Reasoning pro author PDFs

```
stream BT
/F28 17 3154 Tf 140 183 655 283 Td (HMM) 350 (MM) 350 (OO) 350 (NO) 400 (T) 350
(A)55 (O)55 (E)55 (S)55 (M)55 (Y)55 (I)55 (L)55 (J)55 (P)55 (R)55 (S)55 (T)55 (U)55 (V)55 (W)55 (X)55 (Z)55
TJ /F29
TJ -20
-461.25
endstream
endobj
2 0 obj
MediaBox [0 0 1000 1000]
>> endobj
1 0 obj
>> endobj
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 obj
/Length 1
/Type /Page
/FontName /TimesRoman
/Flags 4
/Ascent 650 /CapHeight 650 /Descent -200 /StemV 140 /XHeight 461
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
1 0 obj << /Type /Page
/Parent 1 0 R
/Resources <<
/Font <<
F28 12 0 R
F29 11 0 R
F30 13 0 R
F31 14 0 R
F32 15 0 R
F33 16 0 R
F34 17 0 R
F35 18 0 R
F36 19 0 R
F37 20 0 R
F38 21 0 R
F39 22 0 R
F40 23 0 R
F41 24 0 R
F42 25 0 R
F43 26 0 R
F44 27 0 R
F45 28 0 R
F46 29 0 R
F47 30 0 R
F48 31 0 R
F49 32 0 R
F50 33 0 R
F51 34 0 R
F52 35 0 R
F53 36 0 R
F54 37 0 R
F55 38 0 R
F56 39 0 R
F57 40 0 R
F58 41 0 R
F59 42 0 R
F60 43 0 R
F61 44 0 R
F62 45 0 R
F63 46 0 R
F64 47 0 R
F65 48 0 R
F66 49 0 R
F67 50 0 R
F68 51 0 R
F69 52 0 R
F70 53 0 R
F71 54 0 R
F72 55 0 R
F73 56 0 R
F74 57 0 R
F75 58 0 R
F76 59 0 R
F77 60 0 R
F78 61 0 R
F79 62 0 R
F80 63 0 R
F81 64 0 R
F82 65 0 R
F83 66 0 R
F84 67 0 R
F85 68 0 R
F86 69 0 R
F87 70 0 R
F88 71 0 R
F89 72 0 R
F90 73 0 R
F91 74 0 R
F92 75 0 R
F93 76 0 R
F94 77 0 R
F95 78 0 R
F96 79 0 R
F97 80 0 R
F98 81 0 R
F99 82 0 R
F100 83 0 R
F101 84 0 R
F102 85 0 R
F103 86 0 R
F104 87 0 R
F105 88 0 R
F106 89 0 R
F107 90 0 R
F108 91 0 R
F109 92 0 R
F110 93 0 R
F111 94 0 R
F112 95 0 R
F113 96 0 R
F114 97 0 R
F115 98 0 R
F116 99 0 R
F117 100 0 R
F118 101 0 R
F119 102 0 R
F120 103 0 R
F121 104 0 R
F122 105 0 R
F123 106 0 R
F124 107 0 R
F125 108 0 R
F126 109 0 R
F127 110 0 R
F128 111 0 R
F129 112 0 R
F130 113 0 R
F131 114 0 R
F132 115 0 R
F133 116 0 R
F134 117 0 R
F135 118 0 R
F136 119 0 R
F137 120 0 R
F138 121 0 R
F139 122 0 R
F140 123 0 R
F141 124 0 R
F142 125 0 R
F143 126 0 R
F144 127 0 R
F145 128 0 R
F146 129 0 R
F147 130 0 R
F148 131 0 R
F149 132 0 R
F150 133 0 R
F151 134 0 R
F152 135 0 R
F153 136 0 R
F154 137 0 R
F155 138 0 R
F156 139 0 R
F157 140 0 R
F158 141 0 R
F159 142 0 R
F160 143 0 R
F161 144 0 R
F162 145 0 R
F163 146 0 R
F164 147 0 R
F165 148 0 R
F166 149 0 R
F167 150 0 R
F168 151 0 R
F169 152 0 R
F170 153 0 R
F171 154 0 R
F172 155 0 R
F173 156 0 R
F174 157 0 R
F175 158 0 R
F176 159 0 R
F177 160 0 R
F178 161 0 R
F179 162 0 R
F180 163 0 R
F181 164 0 R
F182 165 0 R
F183 166 0 R
F184 167 0 R
F185 168 0 R
F186 169 0 R
F187 170 0 R
F188 171 0 R
F189 172 0 R
F190 173 0 R
F191 174 0 R
F192 175 0 R
F193 176 0 R
F194 177 0 R
F195 178 0 R
F196 179 0 R
F197 180 0 R
F198 181 0 R
F199 182 0 R
F200 183 0 R
F201 184 0 R
F202 185 0 R
F203 186 0 R
F204 187 0 R
F205 188 0 R
F206 189 0 R
F207 190 0 R
F208 191 0 R
F209 192 0 R
F210 193 0 R
F211 194 0 R
F212 195 0 R
F213 196 0 R
F214 197 0 R
F215 198 0 R
F216 199 0 R
F217 200 0 R
F218 201 0 R
F219 202 0 R
F220 203 0 R
F221 204 0 R
F222 205 0 R
F223 206 0 R
F224 207 0 R
F225 208 0 R
F226 209 0 R
F227 210 0 R
F228 211 0 R
F229 212 0 R
F230 213 0 R
F231 214 0 R
F232 215 0 R
F233 216 0 R
F234 217 0 R
F235 218 0 R
F236 219 0 R
F237 220 0 R
F238 221 0 R
F239 222 0 R
F240 223 0 R
F241 224 0 R
F242 225 0 R
F243 226 0 R
F244 227 0 R
F245 228 0 R
F246 229 0 R
F247 230 0 R
F248 231 0 R
F249 232 0 R
F250 233 0 R
F251 234 0 R
F252 235 0 R
F253 236 0 R
F254 237 0 R
F255 238 0 R
F256 239 0 R
F257 240 0 R
F258 241 0 R
F259 242 0 R
F260 243 0 R
F261 244 0 R
F262 245 0 R
F263 246 0 R
F264 247 0 R
F265 248 0 R
F266 249 0 R
F267 250 0 R
F268 251 0 R
F269 252 0 R
F270 253 0 R
F271 254 0 R
F272 255 0 R
F273 256 0 R
F274 257 0 R
F275 258 0 R
F276 259 0 R
F277 260 0 R
F278 261 0 R
F279 262 0 R
F280 263 0 R
F281 264 0 R
F282 265 0 R
F283 266 0 R
F284 267 0 R
F285 268 0 R
F286 269 0 R
F287 270 0 R
F288 271 0 R
F289 272 0 R
F290 273 0 R
F291 274 0 R
F292 275 0 R
F293 276 0 R
F294 277 0 R
F295 278 0 R
F296 279 0 R
F297 280 0 R
F298 281 0 R
F299 282 0 R
F300 283 0 R
F301 284 0 R
F302 285 0 R
F303 286 0 R
F304 287 0 R
F305 288 0 R
F306 289 0 R
F307 290 0 R
F308 291 0 R
F309 292 0 R
F310 293 0 R
F311 294 0 R
F312 295 0 R
F313 296 0 R
F314 297 0 R
F315 298 0 R
F316 299 0 R
F317 300 0 R
F318 301 0 R
F319 302 0 R
F320 303 0 R
F321 304 0 R
F322 305 0 R
F323 306 0 R
F324 307 0 R
F325 308 0 R
F326 309 0 R
F327 310 0 R
F328 311 0 R
F329 312 0 R
F330 313 0 R
F331 314 0 R
F332 315 0 R
F333 316 0 R
F334 317 0 R
F335 318 0 R
F336 319 0 R
F337 320 0 R
F338 321 0 R
F339 322 0 R
F340 323 0 R
F341 324 0 R
F342 325 0 R
F343 326 0 R
F344 327 0 R
F345 328 0 R
F346 329 0 R
F347 330 0 R
F348 331 0 R
F349 332 0 R
F350 333 0 R
F351 334 0 R
F352 335 0 R
F353 336 0 R
F354 337 0 R
F355 338 0 R
F356 339 0 R
F357 340 0 R
F358 341 0 R
F359 342 0 R
F360 343 0 R
F361 344 0 R
F362 345 0 R
F363 346 0 R
F364 347 0 R
F365 348 0 R
F366 349 0 R
F367 350 0 R
F368 351 0 R
F369 352 0 R
F370 353 0 R
F371 354 0 R
F372 355 0 R
F373 356 0 R
F374 357 0 R
F375 358 0 R
F376 359 0 R
F377 360 0 R
F378 361 0 R
F379 362 0 R
F380 363 0 R
F381 364 0 R
F382 365 0 R
F383 366 0 R
F384 367 0 R
F385 368 0 R
F386 369 0 R
F387 370 0 R
F388 371 0 R
F389 372 0 R
F390 373 0 R
F391 374 0 R
F392 375 0 R
F393 376 0 R
F394 377 0 R
F395 378 0 R
F396 379 0 R
F397 380 0 R
F398 381 0 R
F399 382 0 R
F400 383 0 R
F401 384 0 R
F402 385 0 R
F403 386 0 R
F404 387 0 R
F405 388 0 R
F406 389 0 R
F407 390 0 R
F408 391 0 R
F409 392 0 R
F410 393 0 R
F411 394 0 R
F412 395 0 R
F413 396 0 R
F414 397 0 R
F415 398 0 R
F416 399 0 R
F417 400 0 R
F418 401 0 R
F419 402 0 R
F420 403 0 R
F421 404 0 R
F422 405 0 R
F423 406 0 R
F424 407 0 R
F425 408 0 R
F426 409 0 R
F427 410 0 R
F428 411 0 R
F429 412 0 R
F430 413 0 R
F431 414 0 R
F432 415 0 R
F433 416 0 R
F434 417 0 R
F435 418 0 R
F436 419 0 R
F437 420 0 R
F438 421 0 R
F439 422 0 R
F440 423 0 R
F441 424 0 R
F442 425 0 R
F443 426 0 R
F444 427 0 R
F445 428 0 R
F446 429 0 R
F447 430 0 R
F448 431 0 R
F449 432 0 R
F450 433 0 R
F451 434 0 R
F452 435 0 R
F453 436 0 R
F454 437 0 R
F455 438 0 R
F456 439 0 R
F457 440 0 R
F458 441 0 R
F459 442 0 R
F460 443 0 R
F461 444 0 R
F462 445 0 R
F463 446 0 R
F464 447 0 R
F465 448 0 R
F466 449 0 R
F467 450 0 R
F468 451 0 R
F469 452 0 R
F470 453 0 R
F471 454 0 R
F472 455 0 R
F473 456 0 R
F474 457 0 R
F475 458 0 R
F476 459 0 R
F477 460 0 R
F478 461 0 R
F479 462 0 R
F480 463 0 R
F481 464 0 R
F482 465 0 R
F483 466 0 R
F484 467 0 R
F485 468 0 R
F486 469 0 R
F487 470 0 R
F488 471 0 R
F489 472 0 R
F490 473 0 R
F491 474 0 R
F492 475 0 R
F493 476 0 R
F494 477 0 R
F495 478 0 R
F496 479 0 R
F497 480 0 R
F498 481 0 R
F499 482 0 R
F500 483 0 R
F501 484 0 R
F502 485 0 R
F503 486 0 R
F504 487 0 R
F505 488 0 R
F506 489 0 R
F507 490 0 R
F508 491 0 R
F509 492 0 R
F510 493 0 R
F511 494 0 R
F512 495 0 R
F513 496 0 R
F514 497 0 R
F515 498 0 R
F516 499 0 R
F517 500 0 R
F518 501 0 R
F519 502 0 R
F520 503 0 R
F521 504 0 R
F522 505 0 R
F523 506 0 R
F524 507 0 R
F525 508 0 R
F526 509 0 R
F527 510 0 R
F528 511 0 R
F529 512 0 R
F530 513 0 R
F531 514 0 R
F532 515 0 R
F533 516 0 R
F534 517 0 R
F535 518 0 R
F536 519 0 R
F537 520 0 R
F538 521 0 R
F539 522 0 R
F540 523 0 R
F541 524 0 R
F542 525 0 R
F543 526 0 R
F544 527 0 R
F545 528 0 R
F546 529 0 R
F547 530 0 R
F548 531 0 R
F549 532 0 R
F550 533 0 R
F551 534 0 R
F552 535 0 R
F553 536 0 R
F554 537 0 R
F555 538 0 R
F556 539 0 R
F557 540 0 R
F558 541 0 R
F559 542 0 R
F560 543 0 R
F561 544 0 R
F562 545 0 R
F563 546 0 R
F564 547 0 R
F565 548 0 R
F566 549 0 R
F567 550 0 R
F568 551 0 R
F569 552 0 R
F570 553 0 R
F571 554 0 R
F572 555 0 R
F573 556 0 R
F574 557 0 R
F575 558 0 R
F576 559 0 R
F577 560 0 R
F578 561 0 R
F579 562 0 R
F580 563 0 R
F581 564 0 R
F582 565 0 R
F583 566 0 R
F584 567 0 R
F585 568 0 R
F586 569 0 R
F587 570 0 R
F588 571 0 R
F589 572 0 R
F590 573 0 R
F591 574 0 R
F592 575 0 R
F593 576 0 R
F594 577 0 R
F595 578 0 R
F596 579 0 R
F597 580 0 R
F598 581 0 R
F599 582 0 R
F600 583 0 R
F601 584 0 R
F602 585 0 R
F603 586 0 R
F604 587 0 R
F605 588 0 R
F606 589 0 R
F607 590 0 R
F608 591 0 R
F609 592 0 R
F610 593 0 R
F611 594 0 R
F612 595 0 R
F613 596 0 R
F614 597 0 R
F615 598 0 R
F616 599 0 R
F617 600 0 R
F618 601 0 R
F619 602 0 R
F620 603 0 R
F621 604 0 R
F622 605 0 R
F623 606 0 R
F624 607 0 R
F625 608 0 R
F626 609 0 R
F627 610 0 R
F628 611 0 R
F629 612 0 R
F630 613 0 R
F631 614 0 R
F632 615 0 R
F633 616 0 R
F634 617 0 R
F635 618 0 R
F636 619 0 R
F637 620 0 R
F638 621 0 R
F639 622 0 R
F640 623 0 R
F641 624 0 R
F642 625 0 R
F643 626 0 R
F644 627 0 R
F645 628 0 R
F646 629 0 R
F647 630 0 R
F648 631 0 R
F649 632 0 R
F650 633 0 R
F651 634 0 R
F652 635 0 R
F653 636 0 R
F654 637 0 R
F655 638 0 R
F656 639 0 R
F657 640 0 R
F658 641 0 R
F659 642 0 R
F660 643 0 R
F661 644 0 R
F662 645 0 R
F663 646 0 R
F664 647 0 R
F665 648 0 R
F666 649 0 R
F667 650 0 R
F668 651 0 R
F669 652 0 R
F670 653 0 R
F671 654 0 R
F672 655 0 R
F673 656 0 R
F674 657 0 R
F675 658 0 R
F676 659 0 R
F677 660 0 R
F678 661 0 R
F679 662 0 R
F680 663 0 R
F681 664 0 R
F682 665 0 R
F683 666 0 R
F684 667 0 R
F685 668 0 R
F686 669 0 R
F687 670 0 R
F688 671 0 R
F689 672 0 R
F690 673 0 R
F691 674 0 R
F692 675 0 R
F693 676 0 R
F694 677 0 R
F695 678 0 R
F696 679 0 R
F697 680 0 R
F698 681 0 R
F699 682 0 R
F700 683 0 R
F701 684 0 R
F702 685 0 R
F703 686 0 R
F704 687 0 R
F705 688 0 R
F706 689 0 R
F707 690 0 R
F708 691 0 R
F709 692 0 R
F710 693 0 R
F711 694 0 R
F712 695 0 R
F713 696 0 R
F714 697 0 R
F715 698 0 R
F716 699 0 R
F717 700 0 R
F718 701 0 R
F719 702 0 R
F720 703 0 R
F721 704 0 R
F722 705 0 R
F723 706 0 R
F724 707 0 R
F725 708 0 R
F726 709 0 R
F727 710 0 R
F728 711 0 R
F729 712 0 R
F730 713 0 R
F731 714 0 R
F732 715 0 R
F733 716 0 R
F734 717 0 R
F735 718 0 R
F736 719 0 R
F737 720 0 R
F738 721 0 R
F739 722 0 R
F740 723 0 R
F741 724 0 R
F742 725 0 R
F743 726 0 R
F744 727 0 R
F745 728 0 R
F746 729 0 R
F747 730 0 R
F748 731 0 R
F749 732 0 R
F750 733 0 R
F751 734 0 R
F752 735 0 R
F753 736 0 R
F754 737 0 R
F755 738 0 R
F756 739 0 R
F757 740 0 R
F758 741 0 R
F759 742 0 R
F760 743 0 R
F761 744 0 R
F762 745 0 R
F763 746 0 R
F764 747 0 R
F765 748 0 R
F766 749 0 R
F767 750 0 R
F768 751 0 R
F769 752 0 R
F770 753 0 R
F771 754 0 R
F772 755 0 R
F773 756 0 R
F774 757 0 R
F775 758 0 R
F776 759 0 R
F777 760 0 R
F778 761 0 R
F779 762 0 R
F780 763 0 R
F781 764 0 R
F782 765 0 R
F783 766 0 R
F784 767 0 R
F785 768 0 R
F786 769 0 R
F787 770 0 R
F788 771 0 R
F789 772 0 R
F790 773 0 R
F791 774 0 R
F792 775 0 R
F793 776 0 R
F794 777 0 R
F795 778 0 R
F796 779 0 R
F797 780 0 R
F798 781 0 R
F799 782 0 R
F800 783 0 R
F801 784 0 R
F802 785 0 R
F803 786 0 R
F804 787 0 R
F805 788 0 R
F806 789 0 R
F807 790 0 R
F808 791 0 R
F809 792 0 R
F810 793 0 R
F811 794 0 R
F812 795 0 R
F813 796 0 R
F814 797 0 R
F815 798 0 R
F816 799 0 R
F817 800 0 R
F818 801 0 R
F819 802 0 R
F820 803 0 R
F821 804 0 R
F822 805 0 R
F823 806 0 R
F824 807 0 R
F825 808 0 R
F826 809 0 R
F827 810 0 R
F828 811 0 R
F829 812 0 R
F830 813 0 R
F831 814 0 R
F832 815 0 R
F833 816 0 R
F834 817 0 R
F835 818 0 R
F836 819 0 R
F837 820 0 R
F838 821 0 R
F839 822 0 R
F840 823 0 R
F841 824 0 R
F842 825 0 R
F843 826 0 R
F844 827 0 R
F845 828 0 R
F846 829 0 R
F847 830 0 R
F848 831 0 R
F849 832 0 R
F850 833 0 R
F851 834 0 R
F852 835 0 R
F853 836 0 R
F854 837 0 R
F855 838 0 R
F856 839 0 R
F857 840 0 R
F858 841 0 R
F859 842 0 R
F860 843 0 R
F861 844 0 R
F862 845 0 R
F863 846 0 R
F864 847 0 R
F865 848 0 R
F866 849 0 R
F867 850 0 R
F868 851 0 R
F869 852 0 R
F870 853 0 R
F871 854 0 R
F872 855 0 R
F873 856 0 R
F874 857 0 R
F875 858 0 R
F876 859 0 R
F877 860 0 R
F878 861 0 R
F879 862 0 R
F880 863 0 R
F881 864 0 R
F882 865 0 R
F883 866 0 R
F884 867 0 R
F885 868 0 R
F886 869 0 R
F887 870 0 R
F888 871 0 R
F889 872 0 R
F890 873 0 R
F891 874 0 R
F892 875 0 R
F893 876 0 R
F894 877 0 R
F895 878 0 R
F896 879 0 R
F897 880 0 R
F898 881 0 R
F899 882 0 R
F900 883 0 R
F901 884 0 R
F902 885 0 R
F903 886 0 R
F904 887 0 R
F905 888 0 R
F906 889 0 R
F907 890 0 R
F908 891 0 R
F909 892 0 R
F910 893 0 R
F911 894 0 R
F912 895 0 R
F913 896 0 R
F914 897 0 R
F915 898 0 R
F916 899 0 R
F917 900 0 R
F918 901 0 R
F919 902 0 R
F920 903 0 R
F921 904 0 R
F922 905 0 R
F923 906 0 R
F924 907 0 R
F925 908 0 R
F926 909 0 R
F927 910 0 R
F928 911 0 R
F929 912 0 R
F930 913 0 R
F931 914 0 R
F932 915 0 R
F933 916 0 R
F934 917 0 R
F935 918 0 R
F936 919 0 R
F937 920 0 R
F938 921 0 R
F939 922 0 R
F940 923 0 R
F941 924 0 R
F942 925 0 R
F943 926 0 R
F944 927 0 R
F945 928 0 R
F946 929 0 R
F947 930 0 R
F948 931 0 R
F949 932 0 R
F950 933 0 R
F951 934 0 R
F952 935 0 R
F953 936 0 R
F954 937 0 R
F955 938 0 R
F956 939 0 R
F957 940 0 R
F958 941 0 R
F959 942 0 R
F960 943 0 R
F961 944 0 R
F962 945 0 R
F963 946 0 R
F964 947 0 R
F965 948 0 R
F966 949 0 R
F967 950 0 R
F968 951 0 R
F969 952 0 R
F970 953 0 R
F971 954 0 R
F972 955 0 R
F973 956 0 R
F974 957 0 R
F975 958 0 R
F976 959 0 R
F977 960 0 R
F978 961 0 R
F979 962 0 R
F980 963 0 R
F981 964 0 R
F982 965 0 R
F983 966 0 R
F984 967 0 R
F985 968 0 R
F986 969 0 R
F987 970 0 R
F988 971 0 R
F989 972 0 R
F990 973 0 R
F991 974 0 R
F992 975 0 R
F993 976 0 R
F994 977 0 R
F995 978 0 R
F996 979 0 R
F997 980 0 R
F998 981 0 R
F999 982 0 R
1000 983 0 R
1001 984 0 R
1002 985 0 R
1003 986 0 R
1004 987 0 R
1005 988 0 R
1006 989 0 R
1007 990 0 R
1008 991 0 R
1009 992 0 R
1010 993 0 R
1011 994 0 R
```


'R/S

when I told L^AT_EX people to
as “Other supporting files”.

papers with uploaded PDFs is
ers

pswrite which generates full page
generate PS.

DF, had them in the PS too,
ssary (but that doesn't

The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

```
stream
/F28 11
(A)55(0
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descen
```

R/S

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40.12))

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00000 n
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The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

- The first step is to export the PDF to PS (**save as**) using the following setting (preconfigured)

Preferences ⇒ Convert From PDF ⇒ PostScript ⇒ General ⇒
Font Inclusion ⇒ Embedded and Referenced Fonts

```
stream
/F28 11
(A)55(0
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontFi
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descen
```

R/S

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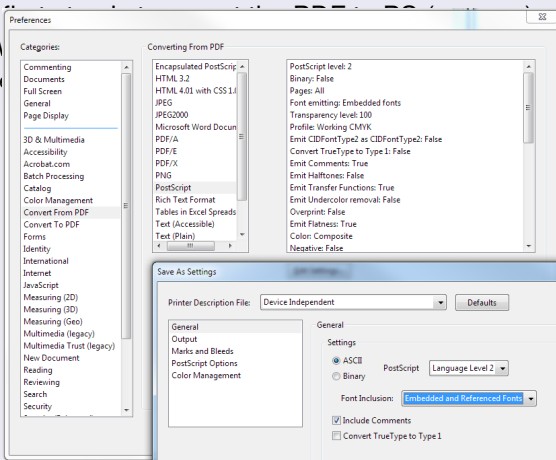
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The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

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- The following Preferences Font



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general ⇒

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The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

- The first step is to export the PDF to PS (**save as**) using the following setting (preconfigured)
Preferences ⇒ Convert From PDF ⇒ PostScript ⇒ General ⇒ Font Inclusion ⇒ Embedded and Referenced Fonts
- This option controls which fonts should be included in the PostScript file. Embedded fonts are taken directly from the PDF, Referenced fonts are taken from the system in use.

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The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

- The first step is to export the PDF to PS (**save as**) using the following setting (preconfigured)
Preferences ⇒ Convert From PDF ⇒ PostScript ⇒ General ⇒ Font Inclusion ⇒ Embedded and Referenced Fonts
- This option controls which fonts should be included in the PostScript file. Embedded fonts are taken directly from the PDF, Referenced fonts are taken from the system in use.
- The same can be done by printing the PDF to file using the JACoW PostScript printer (A4 or Letter has to be respected).

stream
/F28 11
(A)55(0
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBc
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontF1
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descr

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00000 n
00000 n

The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

- The first step is to export the PDF to PS (**save as**) using the following setting (preconfigured)
Preferences ⇒ Convert From PDF ⇒ PostScript ⇒ General ⇒ Font Inclusion ⇒ Embedded and Referenced Fonts
- This option controls which fonts should be included in the PostScript file. Embedded fonts are taken directly from the PDF, Referenced fonts are taken from the system in use.
- The same can be done by printing the PDF to file using the JACoW PostScript printer (A4 or Letter has to be respected).
- Now we distill the exported PS with the standard JACoW settings and get a file which contains **ALL** fonts.

stream
/F28 11
(A)55(0
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBc
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontF1
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descen

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00000 n
00000 n
00000 n

The steps to use the PDFs

What do we have to do to make the PDFs to conform to JACoW and PDF/A rules?

- The first step is to export the PDF to PS (**save as**) using the following setting (preconfigured)
Preferences ⇒ Convert From PDF ⇒ PostScript ⇒ General ⇒ Font Inclusion ⇒ Embedded and Referenced Fonts
- This option controls which fonts should be included in the PostScript file. Embedded fonts are taken directly from the PDF, Referenced fonts are taken from the system in use.
- The same can be done by printing the PDF to file using the JACoW PostScript printer (A4 or Letter has to be respected).
- Now we distill the exported PS with the standard JACoW settings and get a file which contains **ALL** fonts.
- Nudging, cropping, shifting or any text corrections should be made before exporting to PS as this will ensure the correct embedding of fonts and placement of objects in the final PDF.

stream
/F28 1
(A)55(0
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBc
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 27
endobj
9 0 obj
667 722
endobj
10 0 ob
/Length
/Type /
/FontNa
/Flags
/Ascent
/StemV
/CharSe
/FontF1
>> endc
12 0 ob
/Type /
/FontNa
/Flags
/Ascent
/Descr

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What can we gain?

```
stream BT
/F28 17.2154 Tf 149.102 665.282 Td [(WHY)-250(WE)-250(DO)-250(NO)40(T)-250
(A)55(CCEPT)-250(PDF)-250(FILES)]TJ 86.197 -21.918 Td [(FR)30(OM)-250(A)50(UTHORS)]
TJ/F29 11.9552 Tf 27.992 -28.891 Td [(V)129(olk)10(er)-250(R) 55(W)-250(Schaa)]
TJ -20.33 -13.948 Td [(GSI,-)-250(Darmstadt,-)-250(German)15(y)]TJ/F29 9.9626 Tf 60.172
-461.27 Td [(1)] TJ ET
endstream
endobj
2 0 obj << /Type /Page /Contents 3 0 R /Resources 1 0 R /
MediaBox [ 0 0 595.276 792.10] /Parent 6 0 R
>> endobj
1 0 obj << /Font << /F28 4 0 R /F29 5 0 R >> /ProcSet [ /PDF /Text ]
>> endobj
8 0 obj
[250 333 250 278 500 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921
722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722
722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278
500 278 778 500 500 500 500 333 389 278 500 500 722 500 500]
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
/Differences [44/comma 49/one 65/A 67/C/D/E/F/G/H/I 76/L/M/N/O/P 82/R/S
/T/U/V/W 89/Y 97/a 99/c/d/e 104/h 107/k/l/m/n/o 114/r/s/t 121/y]
>> endobj
4 0 obj << /Type /Font /Subtype /Type1
/BaseFont /Times-Bold
/FontDescriptor 11 0 R
/FirstChar 65 /LastChar 89
/Widths 9 0 R /Encoding 7 0 R
>> endobj
5 0 obj <<
/Type /Font /Subtype /Type1
/BaseFont /Times /FontDescriptor 13 0 R
/FirstChar 44 /LastChar 121
/Widths 8 0 R /Encoding 7 0 R
>> endobj
6 0 obj << /Type /Pages /Count 1 /Kids [2 0 R] >> endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [
```

What can we gain?

```
stream BT
/F28 17 3154 T5 140 183 655 283 T4 (HMM) 350 (MM) 350 (OO) 350 (NO)40(T) 350
(A)55(O
TJ/F29
TJ -20.
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 278
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
```

```
>> endobj
7 0 obj << /Type /Encoding
'<
R/S
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [

```

We will get font inclusion

We will get font inclusion

- o when the JACoW PS printer is used.

'R/S

We will get font inclusion

- o when the JACoW PS printer is used.
- o from L^AT_EX (embed fonts is default)

'R/S

What can we gain?

We will get font inclusion

- when the JACoW PS printer is used.
- from \LaTeX (embed fonts is default)
- when we regenerate PS from user source files

```
stream BT
/F28 17 3154 75 140 183 655 283 74 (HMM) 350(HM) 350(DO) 350(HO)40(T) 350
(A)55(
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 278
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTEX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
0000022316 00000 n 0000022482 00000 n 0000022649 00000 n 0000022143 00000 n
0000000608 00000 n 0000000937 00000 n 0000001055 00000 n 0000010072 00000 n
0000010338 00000 n 0000021862 00000 n 0000022706 00000 n 0000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298EB869B5538AEED2243D48B4>]
<575106298EB869B5538AEED2243D48B4>] >>
startxref 22978
%%EOF
```

/R/5

What can we gain?

We will get font inclusion

- o when the JACoW PS printer is used.
- o from \LaTeX (embed fonts is default)
- o when we regenerate PS from user source files
- + from papers with PDF files when we export to PS and re-distill as described above.

```
stream BT
/F28 17 3154 75 140 183 655 283 74 (HMM) 350(W) 350(D) 350(H)140(T) 350
(A)550
TJ/F29
TJ -20
-461.27
endstre
endobj
2 0 obj
MediaBo
>> endc
1 0 obj
>> endc
8 0 obj
[250 33
722 66
722 94
500 278
endobj
9 0 obj [722 667 722 722 667 611 778 778 389 500 778 667 944 722 778 611 778 722 556
667 722 722 1000 722 722]
endobj
10 0 obj << /Length1 1626 /Length2 7293
/Length3 0 /Length 8919 >>
/Type /FontDescriptor
/FontName /Times-Bold
/Flags 4 /FontBBox [-168 -341 1000 960]
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
/StemV 140 /XHeight 461
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
/FontFile 10 0 R
>> endobj
12 0 obj << /Length1 1630 /Length2 9796 /Length3 0 /Length 11426 >>
/Type /FontDescriptor
/FontName /TimesRoman
/Flags 4 /FontBBox [-168 -281 1000 924]
/Ascent 678 /CapHeight 651
/Descent -216
endobj
14 0 obj <<
/Type /Catalog /Pages 6 0 R
>> endobj
15 0 obj <<
/Producer (MiKTeX pdfTeX-1.40.12) /Creator (TeX)
/CreationDate (D:20111107190614+01'00') /ModDate (D:20111107190614+01'00')
/Trapped /False /PTeX.Fullbanner (This is MiKTeX-pdfTeX 2.9.4.225 (1.40.12))
>> endobj
xref
0 16
0000000000 65535 f 0000000529 00000 n 0000000418 00000 n 0000000015 00000 n
00000022316 00000 n 00000022482 00000 n 00000022649 00000 n 00000022143 00000 n
0000000608 00000 n 00000000937 00000 n 00000001055 00000 n 00000010072 00000 n
00000010338 00000 n 00000021862 00000 n 00000022706 00000 n 00000022756 00000 n
trailer
<< /Size 16 /Root 14 0 R /Info 15 0 R
/ID [<575106298E8B69B5538AEED2243D48B4>]
<575106298E8B69B5538AEED2243D48B4>] >>
startxref 22978
%%EOF
```

R/5

What can we gain?

We will get font inclusion

- when the JACoW PS printer is used.
- from \LaTeX (embed fonts is default)
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So my conclusion is

```
stream BT
/F28 17 3154 75 140 183 655 383 74 (HMM) 350(HM) 350(DO) 350(HO)49(T) 350
```

```
(A)55(0
TJ/F29
```

```
TJ -20.
-461.27
```

```
endstre
endobj
```

```
2 0 obj
```

```
MediaBo
>> endc
```

```
1 0 obj
```

```
>> endc
```

```
8 0 obj
```

```
[250 33
```

```
722 66
722 94
```

```
500 278
```

```
endobj
```

```
9 0 obj [333 667 333 333 667 633 333 333 300 500 333 667 644 333 333 633 333 333 556
```

```
667 722
```

```
endobj
```

```
10 0 obj
```

```
/Length
```

```
/Type /
```

```
/FontName
```

```
/Flags 4 /FontBBox [-168 -341 1000 960]
```

```
/Ascent 690 /CapHeight 690 /Descent -209 /ItalicAngle 0
```

```
/StemV 140 /XHeight 461
```

```
/CharSet (/A/C/D/E/F/H/I/L/M/N/O/P/R/S/T/U/W/Y)
```

```
/FontFile 10 0 R
```

```
>> endobj
7 0 obj << /Type /Encoding
```

```
>> endobj
```

```
14 0 obj <<
```

```
/Type /Catalog /Pages 6 0 R
```

```
>> endobj
```

```
trailer
```

```
<< /Size 16 /Root 14 0 R /Info 15 0 R
```

```
/ID [<575106298E869B538AEED2243D48B4>]
```

```
>>
```

```
startxref 22978
```

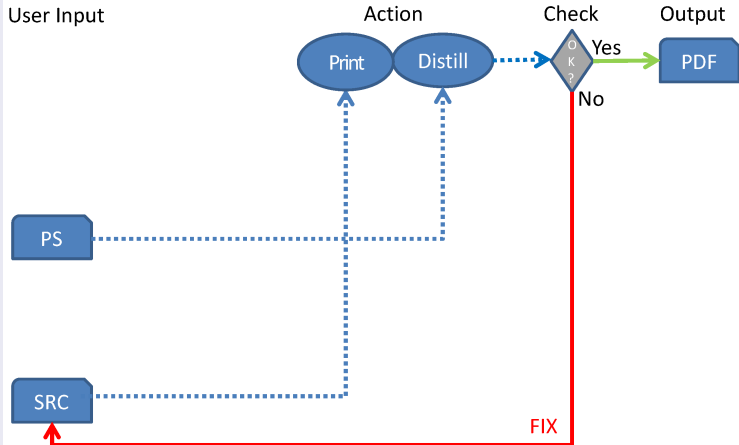
```
%%EOF
```

'R/5

'1'00')
40.12))

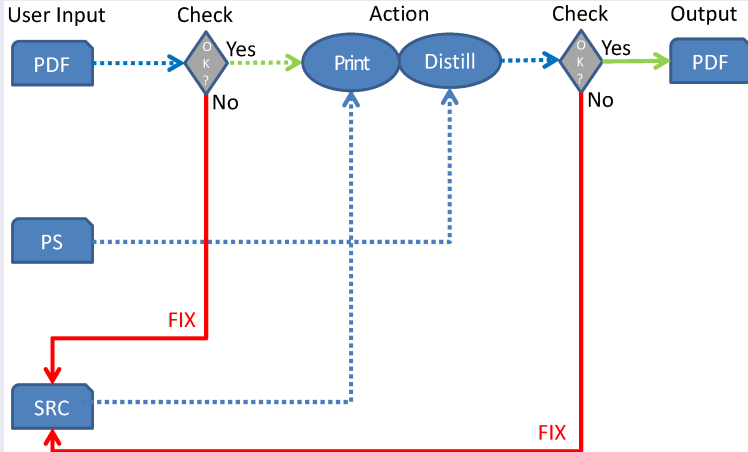
The new workflow

What we do now:



The new workflow

One additional branch (which can make PS dispensable)



The new workflow

Could be even simpler (gray box scriptable)

