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Using pdfT_EX to build an industrial-strength PDF-based imposition program

Martin Schröder
ms@artcom-gmbh.de

EuroT_EX 2001
September 24th–27th, 2001



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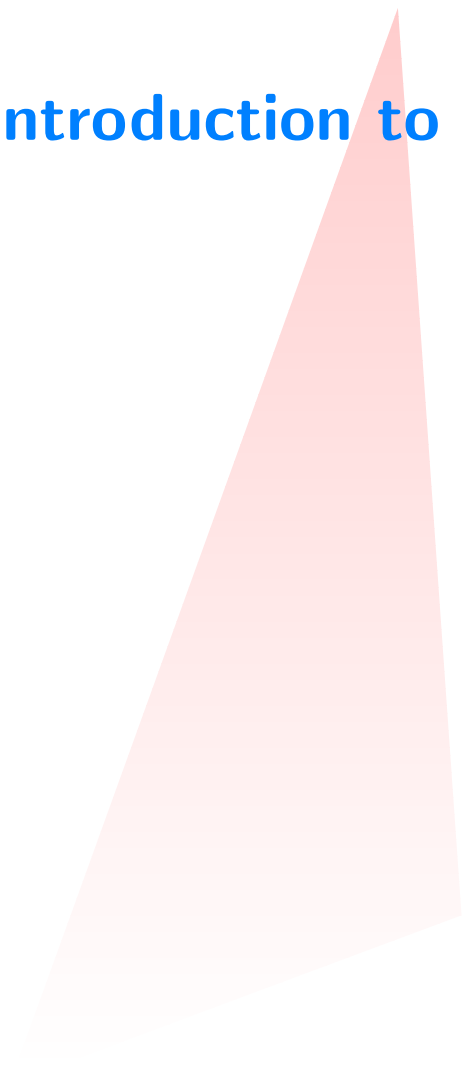
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1. An introduction to imposition





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1. An introduction to imposition

Printing machines do not print single pages but forms that contain many pages (e. g. 8×20), meaning these forms are large (e. g. 2×5 m)



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Imposition means arranging pages on forms



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1. An introduction to imposition

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- Marks (small images) also are put on the forms for



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Imposition means arranging pages on forms

- Marks (small images) also are put on the forms for
 - Identification of jobs, pages and separations



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- Objects can be rotated, normally by multiples of 90°



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Imposition means arranging pages on forms

- Marks (small images) also are put on the forms for
 - Identification of jobs, pages and separations
 - Color proofing
 - Positioning of later steps like folding
- Objects can be rotated, normally by multiples of 90°
- „Bottling” involves rotating single objects by small degrees (e. g. 1°)



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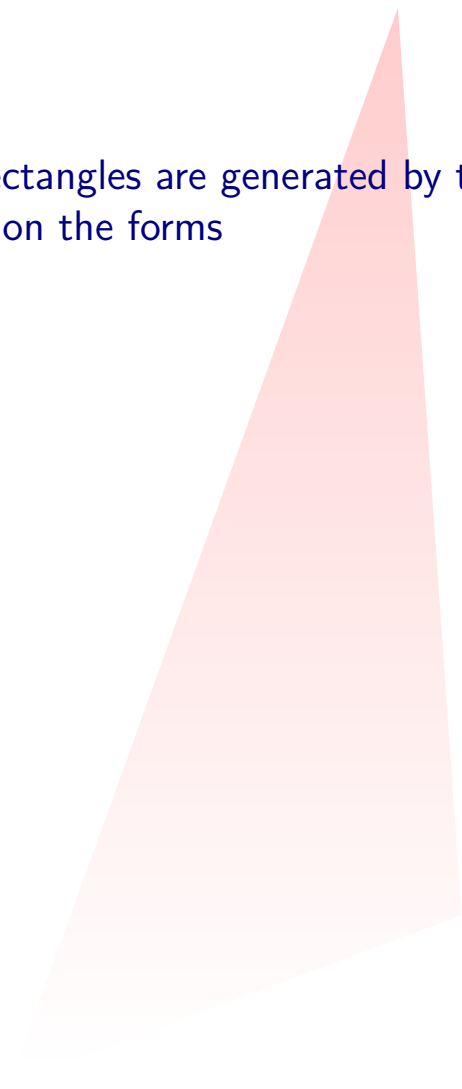
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- Colored rectangles are generated by the software and can be placed on the forms





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- Colored rectangles are generated by the software and can be placed on the forms
- In this case, color stands for CMYK or n channels (typically 8)



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- Colored rectangles are generated by the software and can be placed on the forms
- In this case, color stands for CMYK or n channels (typically 8)
- As a result one large page contains a large number of both large and small objects



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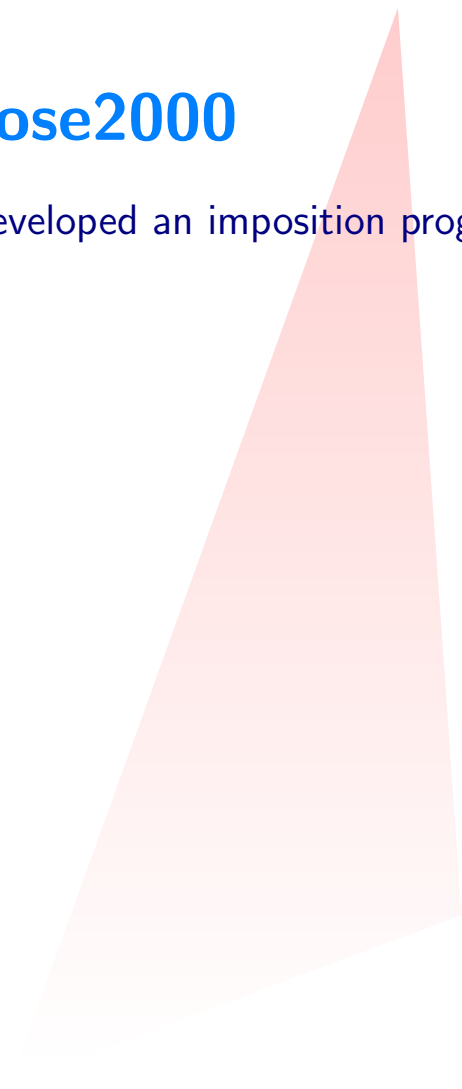
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 5. Export (generate pdf)
- Input is composite PDF, output is also composite PDF



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 5. Export (generate pdf)
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- Objects can be placed on specific separations



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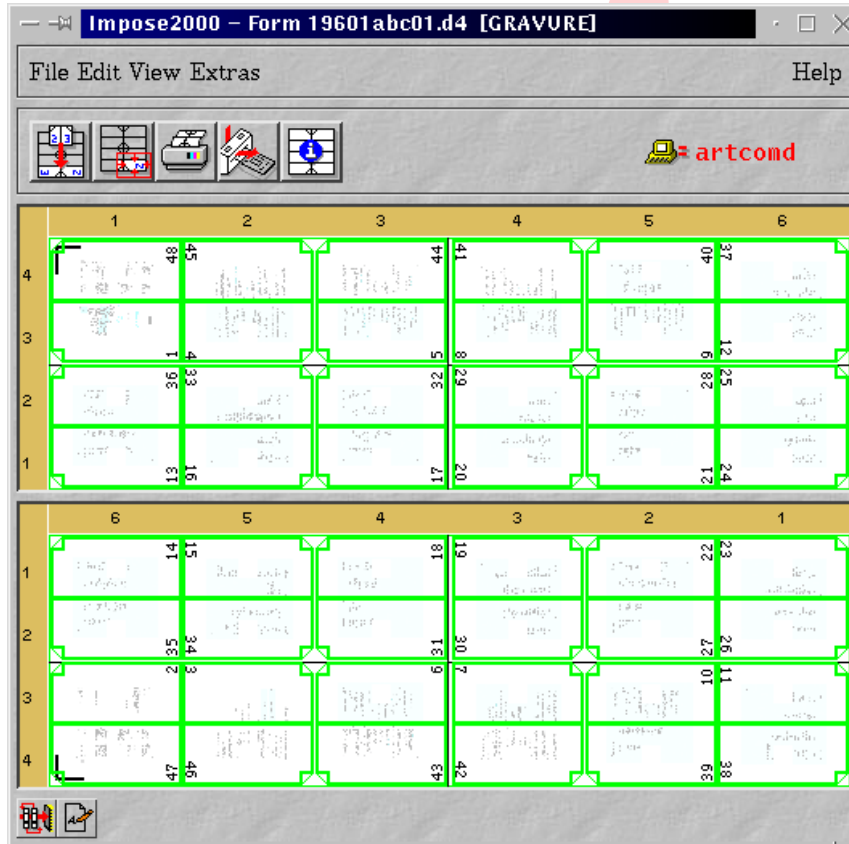
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A screenshot with a form:





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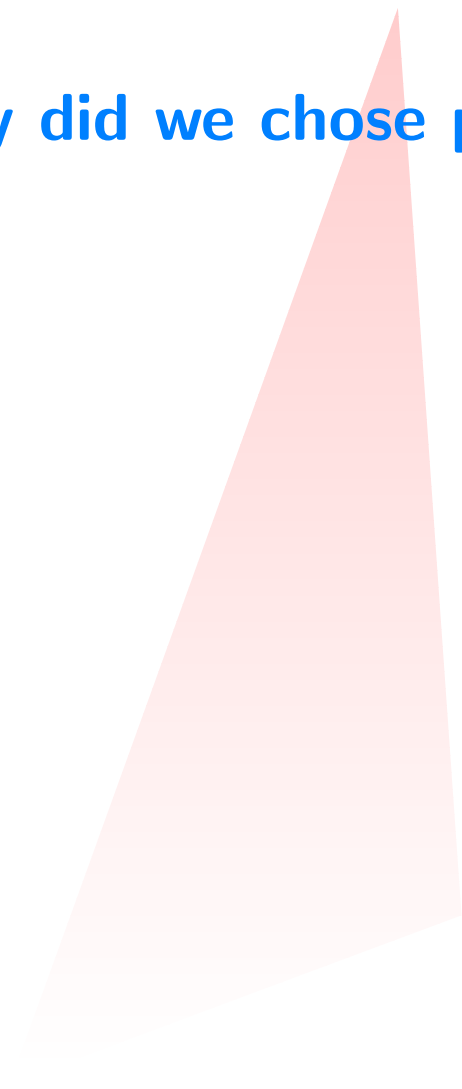
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3. Why did we chose pdfT_EX?

- We need an application for arranging and combining pages from PDF files



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- it is possible to produce arbitrary PDF-code with pdfT_EX by using `\pdfliteral`



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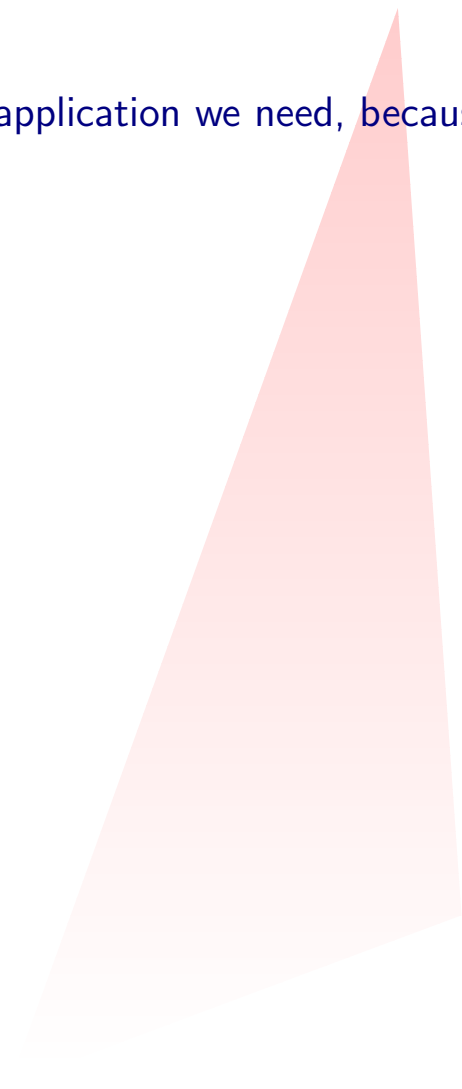
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- stable
- scriptable
- a batch processor



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pdfT_EX is the application we need, because it is

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- bug-free
- stable
- scriptable
- a batch processor
- and we have the necessary skills (L^AT_EX and PDF) in-house



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4. Our intermediate format: LDL



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4. Our intermediate format: LDL

The information from the form-export, on which pdfT_EX runs, is stored in an intermediate file, which is in our internal format: the Layout Description Language (LDL)



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- An LDL describes one form



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The information from the form-export, on which pdfTeX runs, is stored in an intermediate file, which is in our internal format: the Layout Description Language (LDL)

- An LDL describes one form
- The dimensions of the form are specified



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4. Our intermediate format: LDL

The information from the form-export, on which pdfTeX runs, is stored in an intermediate file, which is in our internal format: the Layout Description Language (LDL)

- An LDL describes one form
- The dimensions of the form are specified
- For each object there is a transformation matrix and a clipping matrix



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5. Transforming an LDL into \LaTeX : LDL2PDF



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5. Transforming an LDL into \LaTeX : LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a \LaTeX file is generated which is processed by pdfTeX.



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5. Transforming an LDL into \LaTeX : LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a \LaTeX file is generated which is processed by pdfTeX.

- Input is an LDL



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5. Transforming an LDL into \LaTeX : LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a \LaTeX file is generated which is processed by pdfTeX.

- Input is an LDL
- Output is \LaTeX
- The file names of images must be converted for TeX



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5. Transforming an LDL into \LaTeX : LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a \LaTeX file is generated which is processed by pdfTeX.

- Input is an LDL
- Output is \LaTeX
- The file names of images must be converted for TeX
- The base of the TeX-file is a header-file



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5. Transforming an LDL into L^AT_EX: LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a L^AT_EX file is generated which is processed by pdfTeX.

- Input is an LDL
- Output is L^AT_EX
- The file names of images must be converted for T_EX
- The base of the T_EX-file is a header-file
- It is a header-file and not a package because



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5. Transforming an LDL into L^AT_EX: LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a L^AT_EX file is generated which is processed by pdfTeX.

- Input is an LDL
- Output is L^AT_EX
- The file names of images must be converted for T_EX
- The base of the T_EX-file is a header-file
- It is a header-file and not a package because
 - it is a real header-file



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5. Transforming an LDL into \LaTeX : LDL2PDF

The LDL is not directly consumed by pdfTeX but instead a \LaTeX file is generated which is processed by pdfTeX.

- Input is an LDL
- Output is \LaTeX
- The file names of images must be converted for TeX
- The base of the TeX-file is a header-file
- It is a header-file and not a package because
 - it is a real header-file
 - it is easier to maintain than a package (it is at a fixed position relative to the the binary and we do not need to hassle with kpathsea)



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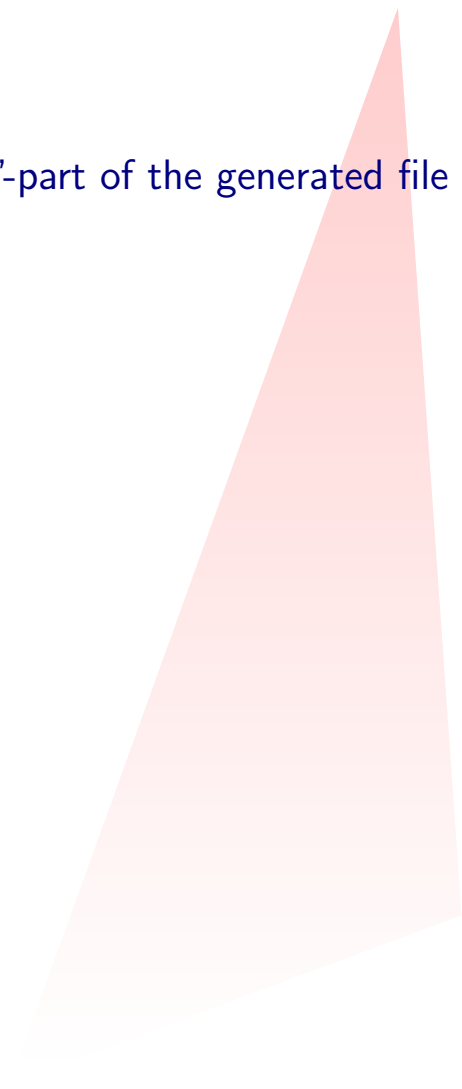
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- The „user“-part of the generated file





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- The „user“-part of the generated file
 - is L^AT_EX



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- The „user“-part of the generated file
 - is \LaTeX
 - uses logical markup



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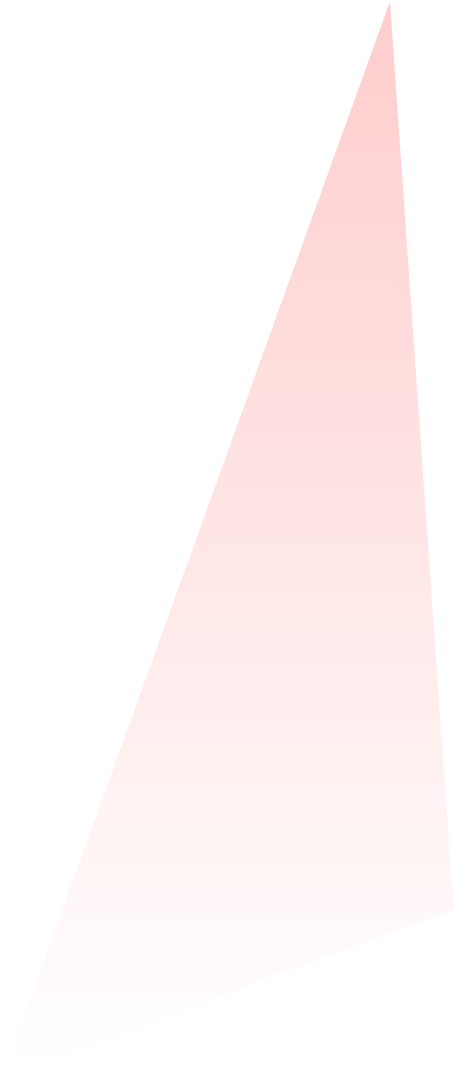
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- The „user“-part of the generated file
 - is \LaTeX
 - uses logical markup
 - uses the keyval-package so we can easily add and remove arguments in later releases



An example:



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An example:

```
1 \ACGeometry{papersize={59.400000000cm,42.000000000cm}}
2 \begin{document}
3 \begin{ACForm}{formwidth=59.400000000,
4               formheight=42.000000000,
5               forminfo={/Creator (ArtCom I2K)
6                         /Author (ArtCom I2K)
7                         /Title (form1)}}}
8 \ACimage{%
9   file=./T101794artcom8.pdf, pageno=8,
10  imagetopage={0.000000000 29.703889062 ... },
11  geotopage={0.000000000 21.000000000 ... },
12  geotopageinvert={0.000000000 -0.033670034 ... },
13 }%
14 \ACimage{ ... }%
15 ...
16 \ACimage{ ... }%
17 \end{ACForm}
18 \end{document}
```



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The implementation of these macros

- is a mix of T_EX and PDF



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The implementation of these macros

- is a mix of T_EX and PDF
- uses L^AT_EX for the page-dimensions and option-handling



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The implementation of these macros

- is a mix of T_EX and PDF
- uses L^AT_EX for the page-dimensions and option-handling
- uses the geometry-package for setting the pagesize



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The implementation of these macros

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- uses the geometry-package for setting the pagesize
- handles options with the keyval-package



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The implementation of these macros

- is a mix of T_EX and PDF
- uses L^AT_EX for the page-dimensions and option-handling
- uses the geometry-package for setting the pagesize
- handles options with the keyval-package
- uses a picture-environment for fixing the position of objects



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- uses the geometry-package for setting the pagesize
- handles options with the keyval-package
- uses a picture-environment for fixing the position of objects
- uses \pdfliteral for constructing PDF-objects



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- uses L^AT_EX for the page-dimensions and option-handling
- uses the geometry-package for setting the pagesize
- handles options with the keyval-package
- uses a picture-environment for fixing the position of objects
- uses `\pdfliteral` for constructing PDF-objects
- allows the definition of separation colors



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- uses the geometry-package for setting the pagesize
- handles options with the keyval-package
- uses a picture-environment for fixing the position of objects
- uses `\pdfliteral` for constructing PDF-objects
- allows the definition of separation colors
- allows the generation of cropmarks, descriptions and labels



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- uses the geometry-package for setting the pagesize
- handles options with the keyval-package
- uses a picture-environment for fixing the position of objects
- uses `\pdfliteral` for constructing PDF-objects
- allows the definition of separation colors
- allows the generation of cropmarks, descriptions and labels
- makes `\pdfimage \immediate` (this is needed because we have a large number of images on one page and normally `\pdfimage` keeps an image open till `\shipout`)



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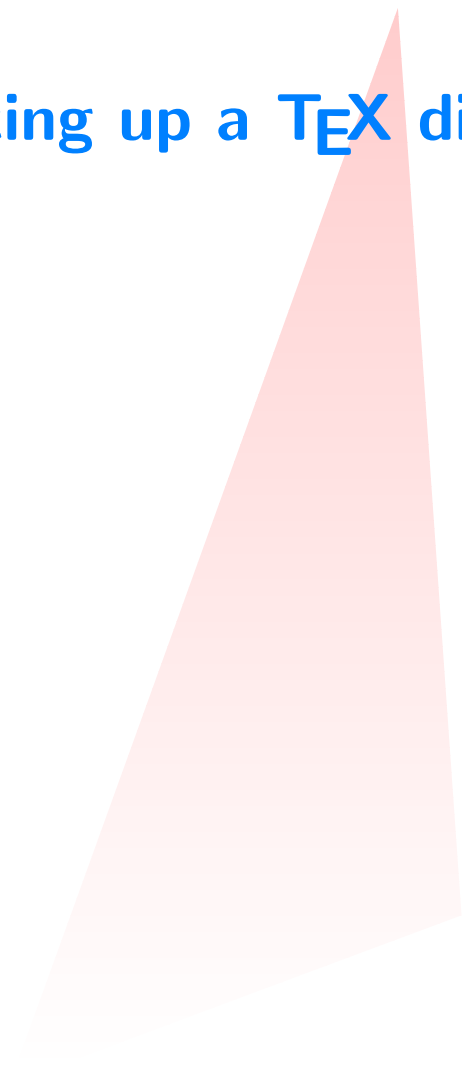
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6. Setting up a TeX distribution





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6. Setting up a TeX distribution

We have to distribute pdfTeX embedded into our software to systems where it will be installed, but we do not want to ship a TeXlive cd – all our software must fit on one cd



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6. Setting up a TeX distribution

We have to distribute pdfTeX embedded into our software to systems where it will be installed, but we do not want to ship a TeXlive cd – all our software must fit on one cd

- We started from TeXlive



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6. Setting up a TeX distribution

We have to distribute pdfTeX embedded into our software to systems where it will be installed, but we do not want to ship a TeXlive cd – all our software must fit on one cd

- We started from TeXlive
- We need binaries for Linux 2.0 (SuSE/Red Hat), IRIX 6.2 and Solaris-SPARC 2.5



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6. Setting up a TeX distribution

We have to distribute pdfTeX embedded into our software to systems where it will be installed, but we do not want to ship a TeXlive cd – all our software must fit on one cd

- We started from TeXlive
- We need binaries for Linux 2.0 (SuSE/Red Hat), IRIX 6.2 and Solaris-SPARC 2.5
- The RPMs for SuSE are too old; teTeX is also too old (we need an up-to-date pdfTeX)



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6. Setting up a TeX distribution

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- We started from TeXlive
- We need binaries for Linux 2.0 (SuSE/Red Hat), IRIX 6.2 and Solaris-SPARC 2.5
- The RPMs for SuSE are too old; teTeX is also too old (we need an up-to-date pdfTeX)
- Since our platforms are old we have to generate the binaries by ourself



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6. Setting up a TeX distribution

We have to distribute pdfTeX embedded into our software to systems where it will be installed, but we do not want to ship a TeXlive cd – all our software must fit on one cd

- We started from TeXlive
- We need binaries for Linux 2.0 (SuSE/Red Hat), IRIX 6.2 and Solaris-SPARC 2.5
- The RPMs for SuSE are too old; teTeX is also too old (we need an up-to-date pdfTeX)
- Since our platforms are old we have to generate the binaries by ourself
- The distribution should be as small as possible



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- Our installation must not interfere with a given T_EX-installation, but of course it has to be at a fixed place relative to the ArtCom-Software



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- Our installation must not interfere with a given TeX-installation, but of course it has to be at a fixed place relative to the ArtCom-Software
- Our installation keeps its binaries at `bin/`, not `bin/$PLATTFORM/` – the ArtCom-installations are not multi-plattform



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- Our installation must not interfere with a given TeX-installation, but of course it has to be at a fixed place relative to the ArtCom-Software
- Our installation keeps its binaries at `bin/`, not `bin/$PLATFORM/` – the ArtCom-installations are not multi-platform
- Our installation embeds no other PostScript-fonts but Computer Modern and the ones found in included files



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- Our installation must not interfere with a given T_EX-installation, but of course it has to be at a fixed place relative to the ArtCom-Software
- Our installation keeps its binaries at `bin/`, not `bin/$PLATTFORM/` – the ArtCom-installations are not multi-platform
- Our installation embeds no other PostScript-fonts but Computer Modern and the ones found in included files
- We want to handle this distribution with CVS



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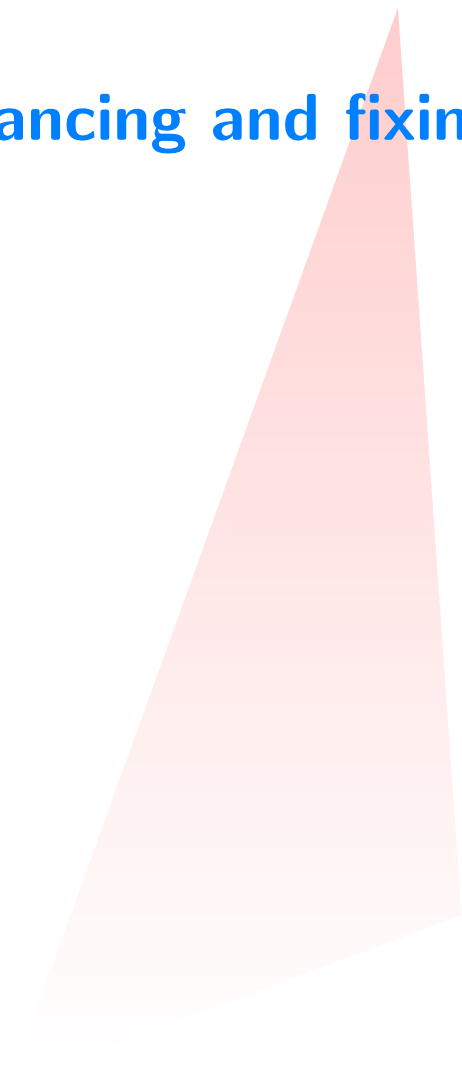
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7. Enhancing and fixing pdfT_EX





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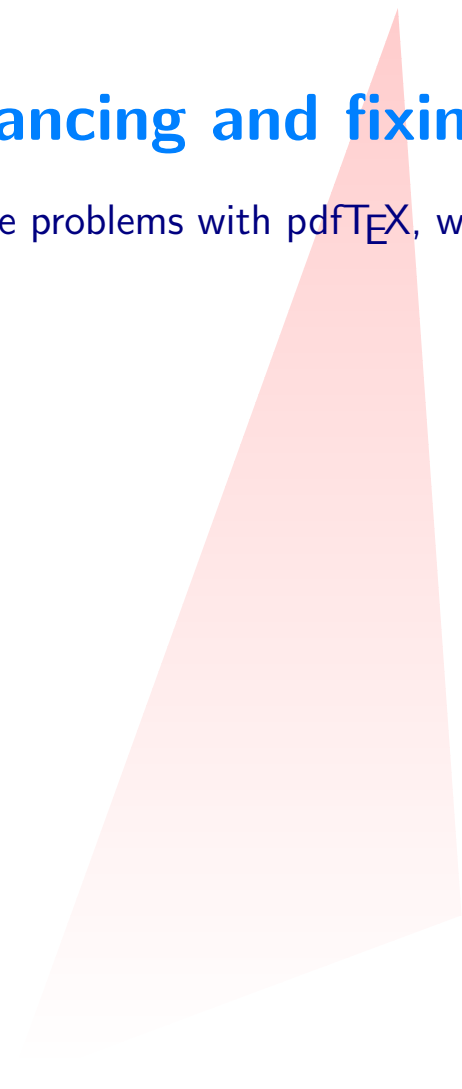
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7. Enhancing and fixing pdfT_EX

We found some problems with pdfT_EX, which we fixed or avoided:





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7. Enhancing and fixing pdfT_EX

We found some problems with pdfT_EX, which we fixed or avoided:

- We tried the TIF-inclusion but found that it is only useful for grayscale or RGB images. We are dealing with CMYK or n-color images, so this feature is useless for us



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7. Enhancing and fixing pdfTeX

We found some problems with pdfTeX, which we fixed or avoided:

- We tried the TIF-inclusion but found that it is only useful for grayscale or RGB images. We are dealing with CMYK or n-color images, so this feature is useless for us
- pdfTeX did not handle the /Rotate attribute of included images; it does now



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7. Enhancing and fixing pdfTeX

We found some problems with pdfTeX, which we fixed or avoided:

- We tried the TIF-inclusion but found that it is only useful for grayscale or RGB images. We are dealing with CMYK or n-color images, so this feature is useless for us
- pdfTeX did not handle the /Rotate attribute of included images; it does now
- pdfTeX always used the /CropBox of included images, but our software expects the /MediaBox; you can now specify the pdf page box pdfTeX shall use



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7. Enhancing and fixing pdfTeX

We found some problems with pdfTeX, which we fixed or avoided:

- We tried the TIF-inclusion but found that it is only useful for grayscale or RGB images. We are dealing with CMYK or n-color images, so this feature is useless for us
- pdfTeX did not handle the /Rotate attribute of included images; it does now
- pdfTeX always used the /CropBox of included images, but our software expects the /MediaBox; you can now specify the pdf page box pdfTeX shall use
- pdfTeX had some problems with keys in dictionaries in included pdfs; these are fixed



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8. Tools we developed

pdfT_EX can not do everything we needed, so we developed some tools for internal use:



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8. Tools we developed

pdfTeX can not do everything we needed, so we developed some tools for internal use:

- Marks and images that are not PDF must be converted to PDF. This is done either with the help of a RIP or by a Java-program



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8. Tools we developed

pdfTeX can not do everything we needed, so we developed some tools for internal use:

- Marks and images that are not PDF must be converted to PDF. This is done either with the help of a RIP or by a Java-program
- Color names and color spaces must be synchronized between all included images. This is done by a Java-program



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8. Tools we developed

pdfTeX can not do everything we needed, so we developed some tools for internal use:

- Marks and images that are not PDF must be converted to PDF. This is done either with the help of a RIP or by a Java-program
- Color names and color spaces must be synchronized between all included images. This is done by a Java-program
- Colored rectangles must be generated with n colors. This is done by a Java-program



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9. Experience using pdfT_EX



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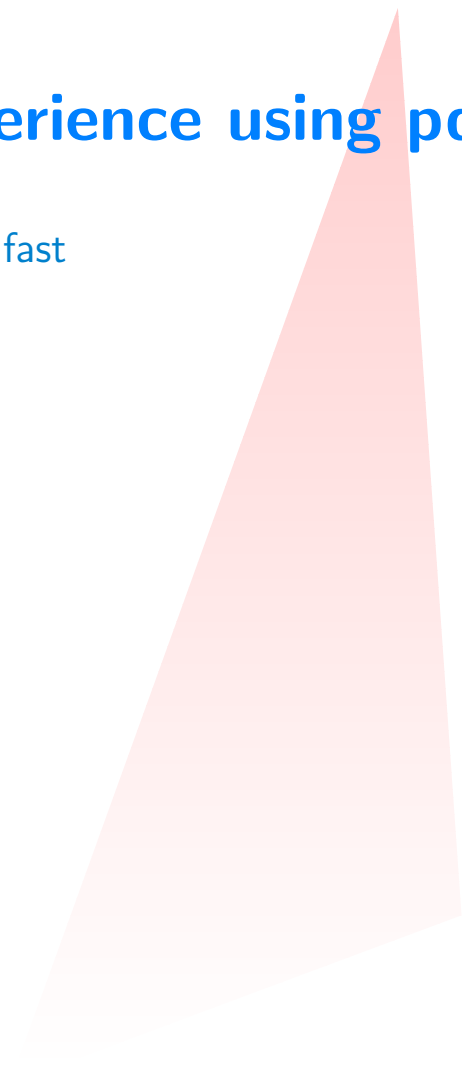
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9. Experience using pdfT_EX

- pdfT_EX is fast





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- pdfT_EX is fast
- pdfT_EX is reliable



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9. Experience using pdfTeX

- pdfTeX is fast
- pdfTeX is reliable
- pdfTeX is extremely flexible thanks to `\pdfliteral`



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- Documentation for TeX is good; the system-documentation of pdfTeX could be better



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- Documentation for T_EX is good; the system-documentation of pdfT_EX could be better
- Hacking pdfT_EX is complicated



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- The support for pdfTeX is incredibly good
- Documentation for TeX is good; the system-documentation of pdfTeX could be better
- Hacking pdfTeX is complicated
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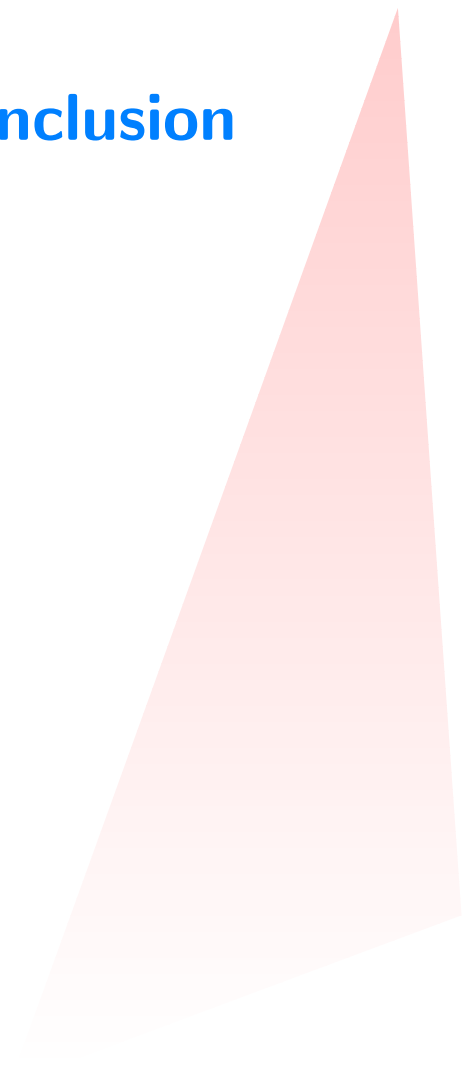
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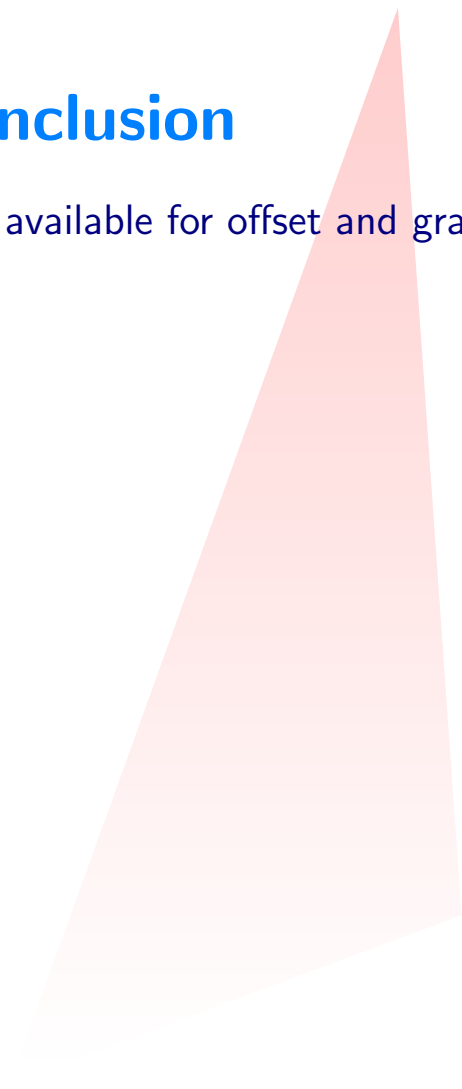
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