

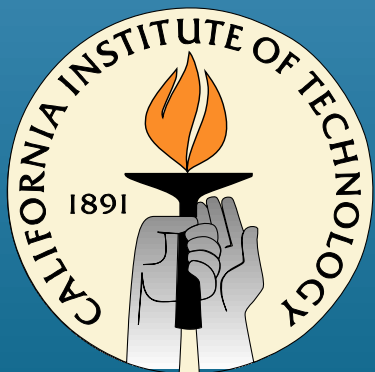
High-quality electronic presentation of mathematics using PDF, TeX/LaTeX, and more

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Macquarie University, Sydney

ross@maths.mq.edu.au

CalTEX Talk #3
8th May 2000



Simple uses of PDF

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- Course Materials, in the library

local: exam

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reduces queues for photocopiers/printers

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- Assignments: linked Questions/Answers Q & A

Journal Articles

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thumbnails, article threads
- alternatively, restrict navigation, adjust the screen size
e.g. TUGIndia Journal CDS, local

pdfscreen & pdfslide

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- author: C V Radhakrishnan, River Valley Technologies
home page: Trivandrum, India

pdfscreen & pdfslide

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home page: Trivandrum, India
- macros for \LaTeX , require use of `hyperref.sty`
pdfscreen is for online readable documents
pdfslide is for slide presentations

- **pdfscreen** comes with packages and settings:
`pdfscreen.sty`, `schemes.sty`, `pdfscreen.cfg`,
`screen.clo`, `comment.sty`, `eso-pic.sty`,
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`everyshi.sty`
- **pdfslide** comes with packages and settings:
`pdfslide.sty`, `pdfslide.cfg`, `pause.sty`,
`slide.clo`
- The **pdfslide** macros work well with the **PPower4**
post-processor.

Documentation and Examples:

- **pdfscreen** manual local
- Maria Physicist: variant 0, 1, 2, local local1 local2
with navigation bar local
- JIPAM, online journal CDS, local
- **pdfslide** manual/demo local
this demo summarizes the steps needed to make PDF
slides with \LaTeX

PPower4 (P⁴)

PDF Presentation Post-Processor

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- author: Klaus Gunterman
home page: Darmstadt, Germany

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- written in Java.
invoked by a Perl script: `ppower4` (uses Java 1.1),
`ppower4p` (requires Java 1.2).

PPower4 (P⁴)

PDF Presentation Post-Processor

- author: Klaus Gunterman
home page: Darmstadt, Germany
- written in Java.
invoked by a Perl script: `ppower4` (uses Java 1.1),
`ppower4p` (requires Java 1.2).
- comes with T_EX/L_AT_EX packages:
`pp4slide.sty`, `pause.sty`, `background.sty`,
`pagetrans.tex`

Documentation and Examples:

- main demo [local](#)
- documentation report [local](#)
- maths demo [local](#), [source](#)
- background colors [local](#), [source](#)
- transition effects, (Marc van Dongen) [local](#), [source](#)

TEXPower macros

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- author: Stephan Lehmke
home page: Dortmund, Germany

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- author: Stephan Lehmke
home page: Dortmund, Germany
- macros for L^AT_EX, extension of `hyperref.sty`

\TeX Power macros

- author: Stephan Lehmke
home page: Dortmund, Germany
- macros for \LaTeX , extension of `hyperref.sty`
- comes with packages and settings:
`fixseminar.sty`, `powersem.cls`, `tpoptions.cfg`,
`tpsettings.cfg`

Documentation and Examples:

- full demo [full demo](#) [source](#) local
- simple demo [simple demo](#) local, [source](#)
- documentation manual [documentation manual](#) local
- backgrounds demo [backgrounds demo](#) local, [source](#)
- fancy math demo [fancy math demo](#) local, [source](#)
- high-lighting demo [high-lighting demo](#) local, [source](#)

- mathematics demo [local](#), [source](#)
- paragraph demo [local](#), [source](#)
- picture placement demo [local](#), [source](#)
- table demo [local](#), [source](#)

More Examples:

- mystic hexagons local
incrementally builds theorems and geometric diagrams
- Prof. Marsden's lecture slides local
nice use of font sizes and colors, with lots of graphics and movies
- mRSED slides format (by Wendy McKay, CDS) local
uses non-standard (for $\text{T}_{\text{E}}\text{X}$) fonts and headings
- This document:
<http://cds.caltech.edu/~ross/CalTeX3/4talk.pdf>

Online Quizzes

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- e.g. for testing Basic Skills in Mathematics (online)
authors: Ross Moore and Frances Griffin (student)
home site: Mathematics Department, Macquarie University

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- based on **ExerQuiz**
author: D P Story
home page: University of Akron