



# L<sup>A</sup>T<sub>E</sub>X Presentations

*Slides on transparencies or in PDF using Prosper*

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# Agenda

- $\text{\LaTeX}$  Essentials
  - booktabs, geometry, xr, natbib, babel
- Prosper Presentations
  - Prosper preamble (document setup)
  - PS and PDF documents, the difference
  - Pro(s)per  $\text{\LaTeX}$  presentations
  - Templates and homemade templates



# **L<sup>A</sup>T<sub>E</sub>X Essentials**

# L<sup>A</sup>T<sub>E</sub>X Essentials, booktabs

- The standard tables in L<sup>A</sup>T<sub>E</sub>X leaves it to the author to define a “typographically professional” style
- Use the booktabs page instead to design by least errors
- Read the documentation with `texdoc booktabs`

# L<sup>A</sup>T<sub>E</sub>X Essentials, Leslie Lamport Example

gnats	gram	\$13.65
	each	.01
gnu	stuffed	92.50

# L<sup>A</sup>T<sub>E</sub>X Essentials, Booktabs Converted

---

Item		
Animal	Description	Price (\$)
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.50

---

# L<sup>A</sup>T<sub>E</sub>X Essentials, geometry

- The correct way of specifying document media size according to layout needs
- Set your media and layout needs in document or package options

```
\usepackage[a4paper,nofooter,...]%  
  {geometry}
```

- Read the documentation with `texdoc geometry`

# L<sup>A</sup>T<sub>E</sub>X Essentials, babel and xr

- References to external references can be made with

```
\externaldocument[A-]{aaa-paper}  
\ref{A-snazzy-eq-1}
```

- Correct hyphenation with babel
  - normally hyphenation are made with \-
  - if direct hypens are made as in direct-hyphen hyphenation is set out of control
  - use babel hyphenation " – instead

# L<sup>A</sup>T<sub>E</sub>X Essentials, natbib

- Natbib is a very strong tool for citations and bibliography in the field natural sciences
- As always read the documentation with `texdoc natbib`
- Advantages include
  - New bibtex types URL, ISSN, and ISBN
  - Many citation types and configuration control

# L<sup>A</sup>T<sub>E</sub>X Essentials, natbib citation styles

- Basic citation types

<code>\citet{fkj01}</code>	Jensen et al. (1990)
<code>\citet[chap.~2]{fkj01}</code>	Jensen et al. (1990, chap. 2)
<code>\citep{fkj01}</code>	(Jensen et al., (1990)
<code>\citep[chap.~2]{fkj01}</code>	(Jensen et al., 1990, chap. 2)
<code>\citep[see][]{fkj01}</code>	(see Jensen et al., 1990)

- Bibtex support the following

URL = {http://.../},  
ISBN = number,  
ISSN = number



# Prosper Presentations

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  - The “write the slides”-“start the viewer”-“check the appearance” cycle is can be different and to some slow in the beginning
  - The author must be somewhat familiar with  $\text{\LaTeX}$  to be productive

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  - Easier to make professional slides than older  $\text{\LaTeX}$  systems like:  $\text{SL}\text{\LaTeX}$ , slide environment or seminar style, PPower4, pdfscreen,  $\text{Con}\text{\TeX}$ T or pdftex.

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  - Easier to make professional slides than older  $\text{\LaTeX}$  systems like:  $\text{\SLiTeX}$ , slide environment or seminar style, PPower4, pdfscreen, Con $\text{\TeX}$ T or pdftex.
  - Prosper PDF slides are portable and printable anywhere with or without hypertext facilities and animation effects

# Prosper Document Structure

```
\documentclass[ Options ]{prosper}
```

```
\title{ Title of the presentation }  
\subtitle{ subtitle }  
\author{ Names of the authors }  
\institution{ Affiliation }  
\slideCaption{ caption text }
```

```
\begin{document}  
\maketitle
```

```
\begin{slide} [ transition ] { slide title }  
  Material for the slide  
\end{slide}
```

...

```
\overlays{n}{  
\begin{slide} [ transition ] { slide title }  
  Material for the slide  
\end{slide}  
}
```

```
\end{document}
```

## Options:

**final**  
draft

**total**  
nototal

**slideBW**  
slideColor

**colorBG**  
nocolorBG

**ps**  
pdf

**noaccumulate**  
accumulate

azure  
lignesbleues  
contemporain  
nuancegris  
**troispoints**  
frames  
...

## Legend

**Mandatory or default choice**  
Optional

# Writing The First Slide

The simple slide and its structure is basically easy, but beware: many features of Prosper can be added!

```
\begin{slide}{The Simple Slide}  
Hello World  
\end{slide}
```

# The Simple Slide

Hello World

# Writing The First Equation Slide

The simple slide structure is reused to add the enormous power of  $\text{\LaTeX}$

```
\overlays{2}{  
\begin{slide}{The Equation Slide}  
  \begin{itemize}  
    \item  
      \begin{equation}  
        a^{2} + b^{2} = c^{2}  
      \end{equation}  
    \item  
      \begin{equation}  
        c = \sqrt{a^{2} + b^{2}}  
      \end{equation}  
    \end{itemize}  
  \end{slide}}
```

# The Equation Slide



$$a^2 + b^2 = c^2$$

# The Equation Slide



$$a^2 + b^2 = c^2$$



$$c = \sqrt{a^2 + b^2}$$

# Animation Effects

- The only animation effects supported are the PDF built-ins used with

```
\begin{slide}[animation]{slide}
```

- Effect overview

Split

Replace [default]

Blinds

Glitter

Box

Dissolve

Wipe

# Animating a Slide

```
\overlays{3}{  
\begin{slide}{The Animated Slide}  
  \begin{itemstep}  
    \item A  
    \item B  
    \item C  
  \end{itemstep}  
\end{slide}}
```

# The Animated Slide

- A

# The Animated Slide

- A
- B

# The Animated Slide

- A
- B
- C

# Advanced Animation of a Slide

```
\overlays{3}{  
\begin{slide}{The Animated Slide}  
  \onlySlide{1}{\begin{itemize}\item A\end{itemize}}  
  \onlySlide{2}{\begin{itemize}\item A\end{itemize}}  
  \onlySlide{3}{\begin{itemize}\item A\end{itemize}}  
\end{slide}}
```

# The Animated Slide

- A

# The Animated Slide

- B

# The Animated Slide

- C

# The Animated Slide

- A

# The Animated Slide

- B

# The Animated Slide

- C

# Prosper, Postscript or PDF

- There is a difference between Postscript and PDF, mainly in the format of the figures to include
- Three different commands take care of this

```
\PDForPS{ifpdf}{ifps}
```

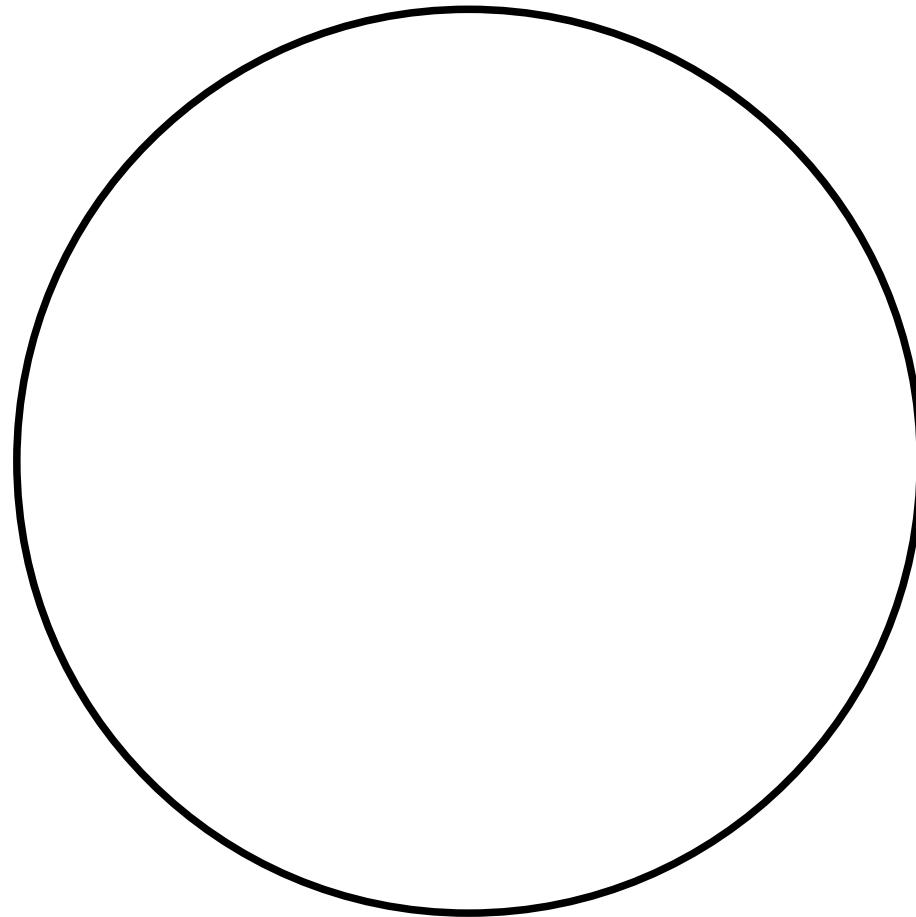
```
\onlyInPS{material}
```

```
\onlyInPDF{material}
```

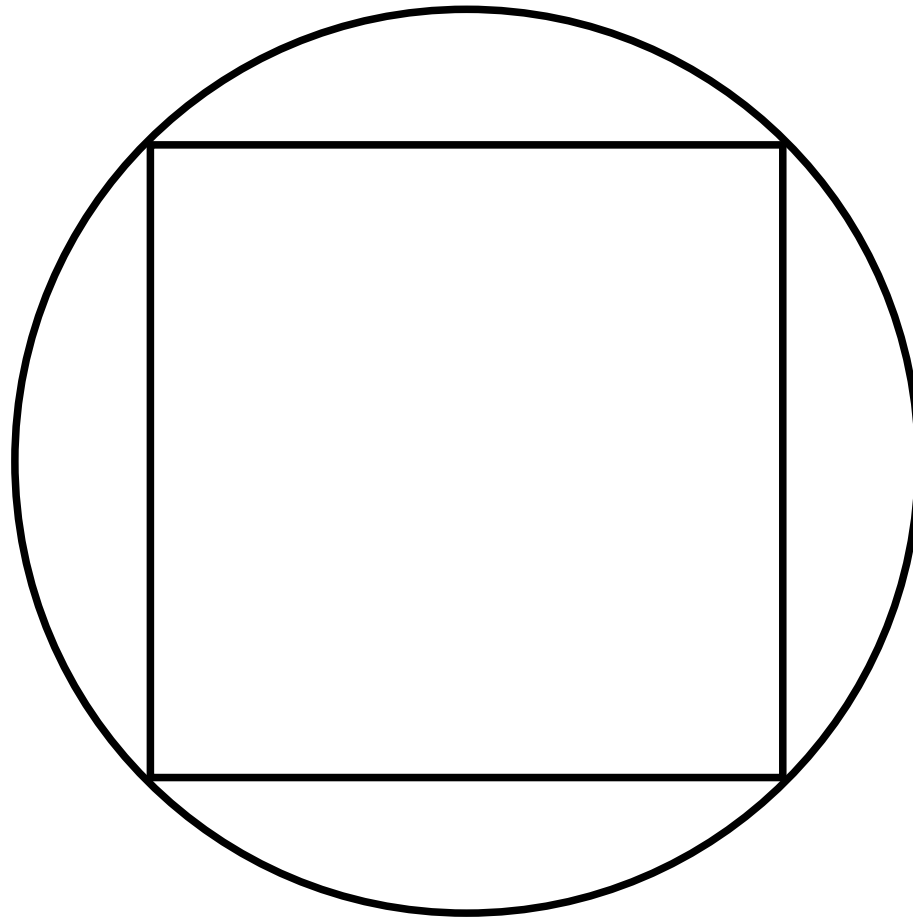
# Advanced Graphical Animation

```
\overlays{3}{  
\begin{slide}{Animated Graphics}  
  \onlySlide*{1}{  
    \includegraphics{geom-1.eps}}  
  \onlySlide*{2}{  
    \includegraphics{geom-2.eps}}  
  \onlySlide*{3}{  
    \includegraphics{geom-3.eps}}  
\end{slide}}
```

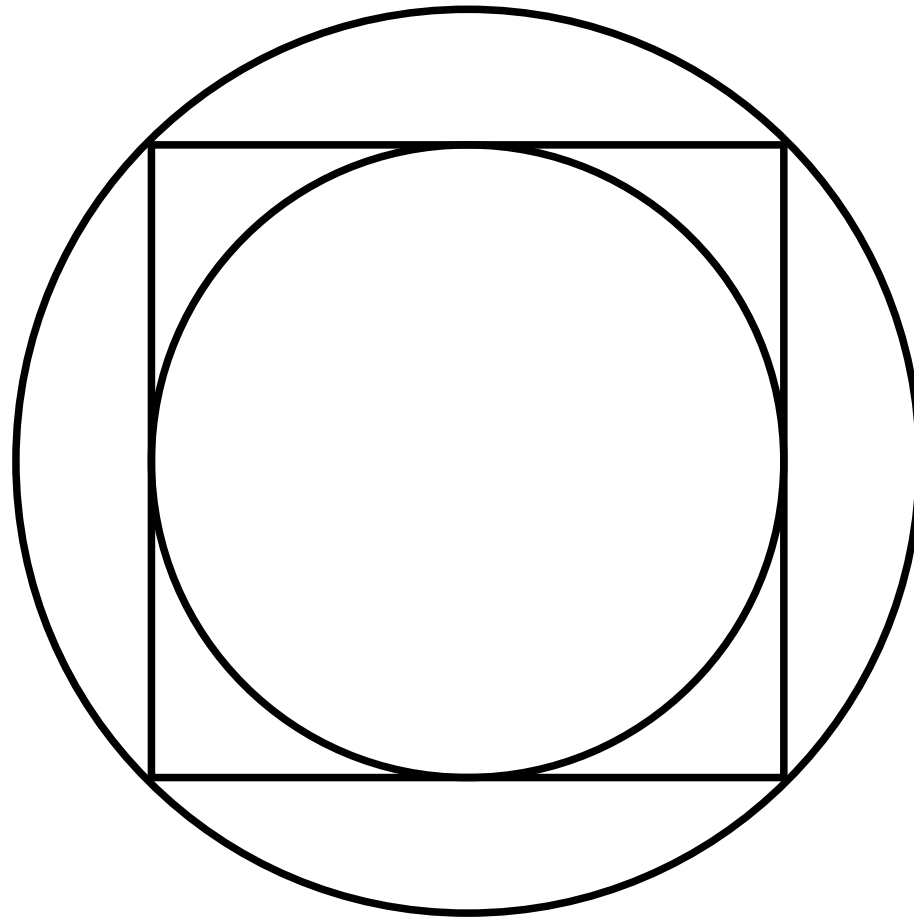
# Animated Graphics



# Animated Graphics



# Animated Graphics



# Content

- As always you will have to supply the content. . .

•  
•  
•



# Questions?

