



# A Guide to Prosper

Ki-Joo Kim

[kijoo2000@yahoo.com](mailto:kijoo2000@yahoo.com)

Department

Organization, Location

# Why Prosper?

- ❑  $\LaTeX$  class for fancy PDF presentation.
- ❑ **PS** for print and **PDF** for screen presentation.
- ❑ Full support of **PSTricks**.
- ❑ **Transitions** and **overlays**.  $\Rightarrow$  *No need of **PDF enhancement tools** such as PPower4 or TeXPower.*
- ❑ Easy to use. Simple structure with a few macros!
- ❑ Easy to expand. Create your own style files!

# Basic Structure

```
\documentclass[cray,slideColor,pdf]
{prosper}
```

□ 'PPRcray' style.

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```
\documentclass[cray,slideColor,pdf]
{prosper}
\title{}
\author{}
\institution{}
\Logo{}
\begin{document}
\maketitle
```

- 'PPRcray' style.
- Make slide cover.

# Basic Structure

```
\documentclass[cray,slideColor,pdf]
{prosper}
\title{}
\author{}
\institution{}
\Logo{}
\begin{document}
\maketitle
\overlays{n}{%
\begin{slide}[trans]{Title}
... contents ...
\end{slide}
}%
\end{document}
```

- 'PPRcray' style.
- Make slide cover.
- Make slides.
  - ▶ Overlays (option).
  - ▶ Transitions (option).

# 'PPRcray.sty'

- Text font: Computer Modern Sans Serif
- Math font: Computer Modern Math ( $f(x)$ )
- Colors
  - ▶ Highlighting: Pink, Olive.
  - ▶ Cray colors: Cray orange, Cray blue, Cray purple.

# How to Run

- ❑ latex foo (2 or 3 times)
- ❑ dvips -Ppdf -G0 foo
- ❑ ps2pdf foo.ps
  - ▶ Use -dPDFSETTINGS=/prepress option to prevent EPS downsampling.
  - ▶ Pass `distiller` option to Prosper when you use 'Adobe Distiller'.
- ❑ pdf2htmlpres.py for PDF to HTML conversion.
  - ▶ Source: <http://freshmeat.net/articles/view/667/>
  - ▶ Example: `python pdf2htmlpres.py -g png -f foo.pdf`

# Hyper Links with hyperref

- `\href{url}{text}` for url link **behind** text.
  - ▶ `\href{http://}{text}` for www (e.g., **CTAN**).
  - ▶ `\href{mailto:}{text}` for email (e.g., **Ki-Joo**).
  - ▶ `\href{run:program}{text}` for running an external program (e.g., Click **here** to run 'clock.avi' file).
- `\url{url}` for url link (e.g., **http://www.ctan.org**)
- `\hyperlink{target}{text}` creates an *internal link*.
- `\hypertarget{target}{text}` creates an *internal target*. *text* can be empty.



# Basic Colors

- Default **PSTricks** colors.
  - ▶ **Red** from `{\red Red}`. Additional colors are **green**, **blue**, **cyan**, **magenta**, and **yellow**.
  - ▶ Dark gray, gray, and light gray.
- New color definitions (n=0 to 1).
  - ▶ `\newgray{name}{n1}` for gray color.
  - ▶ `\newrgbcolor{name}{n1 n2 n3}` for RGB color.
  - ▶ `\newcmykcolor{name}{n1 n2 n3 n4}` for CMYK color.
- To use color package definitions, see [here](#).

# EPS Inclusion

- `\includegraphics [width=1\textwidth] {}`  
inside `minipage` or `tabular` environment, or `\rput`  
for easy control.
- Example:  
`\rput [ref] (x,y) {\includegraphics [] {}}`.



# Transitions

- Prosper offers **seven** transitions between slides:
  - ▶ Split, Blinds, Box, Wipe, Glitter, Dissolve, and
  - ▶ Replace or R (default).
- For default transition,  
`\DefaultTransition{trans}`.
- For slide-specific transition,  
`\begin{slide}[trans]{title}`.
- Missing features.
  - ▶ Does not support detail option parameters, e.g., `{Wipe /Di 315 /D 3}`.
  - ▶ Does not support individual transitions inside a slide due to its box-like slide environment.

# Overlays - Simple

- Simple overlays can be done with
  - ▶ `\overlays{n}{%` just above the *slide* environment and `}%` after the environment.
  - ▶ Use `itemstep` environment instead of `itemize` environment.
- Overlay 1

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- Overlay 1
- Overlay 2
- Overlay 3

*Note:* Inside overlays `\verb` is not working. Use `\path{}` instead!



# Overlays - Regular

- Five overlays here(1st overlay).
  - ▶ `\untilSlide{4}{stuff}`: Stuff from 1st to 4th.



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  - ▶ `\fromSlide{2}{stuff}`: Stuff from 2nd to last.

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- Five overlays here(1st overlay).
  - ▶ `\untilSlide{4}{stuff}`: Stuff from 1st to 4th.
  - ▶ `\fromSlide{2}{stuff}`: Stuff from 2nd to last.
  - ▶ `\onlySlide{3}{stuff}`: Stuff only on 3rd overlay.

# Overlays – Regular

- Five overlays here(1st overlay).
  - ▶ `\untilSlide{4}{stuff}`: Stuff from 1st to 4th.
  - ▶ `\fromSlide{2}{stuff}`: Stuff from 2nd to last.

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  - ▶ Item on 5th overlay.

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  - ▶ Item on 5th overlay.
- Backward writing is easy and simple: **SYWEB**

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- Five overlays here(1st overlay).
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  - ▶ Item on 5th overlay.
- Backward writing is easy and simple: **ISYWEB**

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  - ▶ Item on 5th overlay.
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- Five overlays here(1st overlay).
  - ▶ `\fromSlide{2}{stuff}`: Stuff from 2nd to last.
  
  - ▶ Item on 5th overlay.
- Backward writing is easy and simple: DAISYWEB



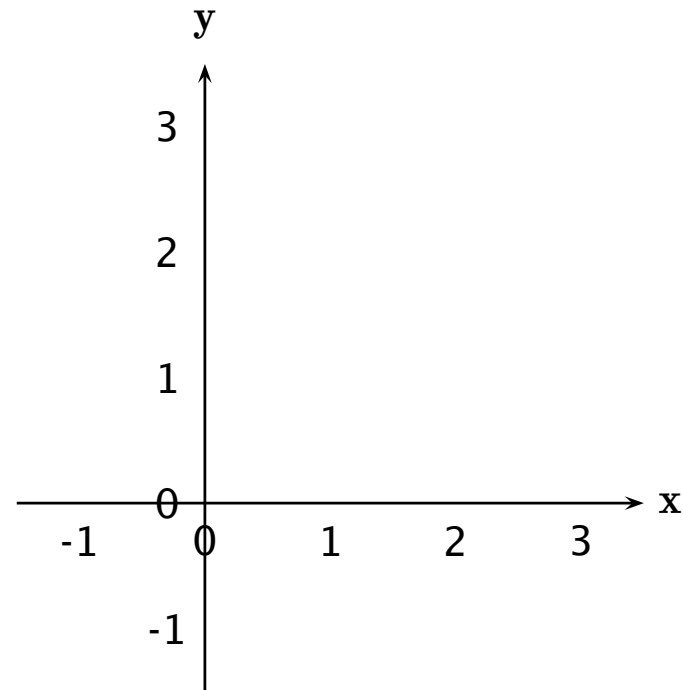
# Overlays - PSTricks Ex

PSTricks works well!

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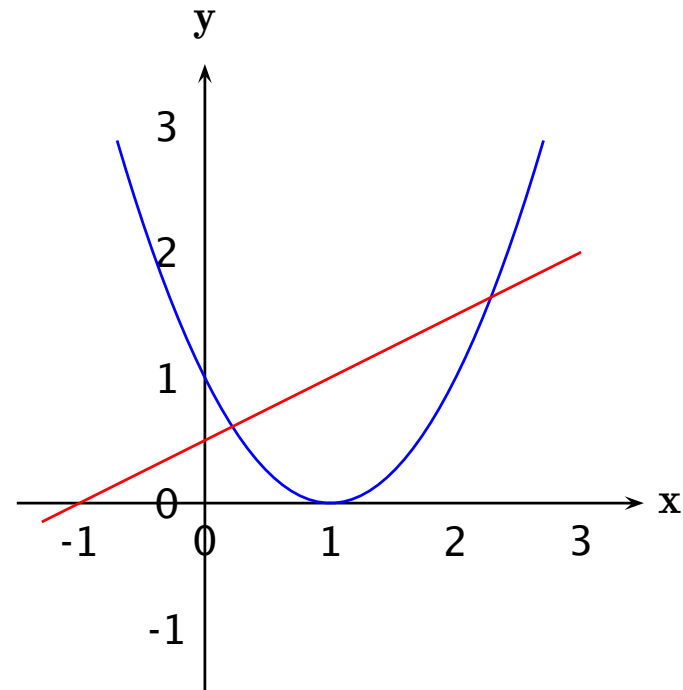
- Draw axis.



# Overlays - PSTricks Ex

PSTricks works well!

- Draw axis.
- Plot two functions.
  - ▷  $y = (x - 1)^2$ .
  - ▷  $y = \frac{x+1}{2}$ .

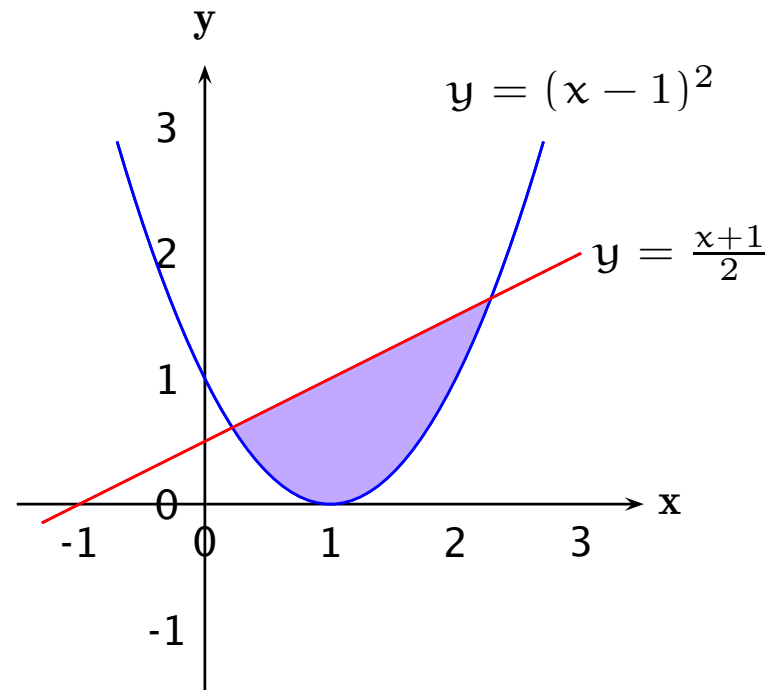




# Overlays - PSTricks Ex

PSTricks works well!

- Draw axis.
- Plot two functions.
  - ▷  $y = (x - 1)^2$ .
  - ▷  $y = \frac{x+1}{2}$ .
- Fill inside the curves using `\pscustom`.



# Overlays - Advanced

- `\FromSlide{n}`, `\OnlySlide{n}`, `\UntilSlide{n}` for putting **stuffs** from slide n, only on slide n, or until slide n.
- **Stared overlays**
  - ▶ `\fromSlide*{n}{stuff}`, `\onlySlide*{n}{stuff}`, `\untilSlide*{n}{stuff}` for *stuff replacement*.
  - ▶ Very useful for fancy overlays.



# Overlays - Replacement

- Replacement example:  
This is “ Hello ” output (1st overlay).

# Overlays - Replacement

- Replacement example:  
This is “**Hello**” output (2nd overlay).

# Overlays - Replacement

- Replacement example:  
This is “**Hello**” output (3rd overlay).

# Overlays - Replacement

- Replacement example:  
This is “**Hello**” output (3rd overlay).
- └ Another replacement!  
Type your name \_\_\_\_\_ here.

# Overlays - Replacement

- Replacement example:  
This is “**Hello**” output (3rd overlay).
- ┌ Another replacement!  
Type your name **Ki-Joo** here.



# Overlays - Highlighting

- Bullet highlighting:



# Overlays - Highlighting

## □ Bullet highlighting:

▷ Item 1

▷ Item 2

▷ Item 3

# Overlays - Highlighting

## □ Bullet highlighting:

▷ Item 1

▷ **Item 2**

▷ Item 3



# Overlays - Highlighting

□ Bullet highlighting:

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▷ Item 2

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# Overlays – Highlighting

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## □ Text highlighting:

A thorough discussion of the major parallelized MOEA paradigms is included in this paper.

# Overlays – Highlighting

## □ Bullet highlighting:

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**A thorough discussion** of the major parallelized MOEA paradigms is included in this paper.

# Overlays – Highlighting

## □ Bullet highlighting:

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▷ **Item 3**

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A thorough discussion of the major parallelized MOEA paradigms is included in this paper.

# Overlays - Tabular

## □ Filling the table


# Overlays - Tabular

- Filling the table

Table	filling	is fun



# Overlays - Tabular

## □ Filling the table

Table	filling	is fun
with		

# Overlays - Tabular

- Filling the table

Table	filling	is fun
with		
This		

# Overlays - Tabular

## □ Filling the table

Table	filling	is fun
with		
This		possible!

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## □ Filling the table

Table	filling	is fun
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Table	filling	is fun
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- Step-by-step cell growth

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Cells	in	a row.
-------	----	--------



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Cells	in	a row.
Cells	in	

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Table	filling	is fun
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Cells	in	a row.
Cells	in	
Cells		

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- Step-by-step cell growth

Cells	in	a row.
Cells	in	
Cells		Done!

# Overlays - Nodes

- Fitness sharing of MSGA.

$$\mathcal{F}_i = \alpha(1) \times \delta(1, k) + \alpha(2) \times \delta(2, k) + \dots = \sum_{k=1} \alpha(k) \times \delta(i, k)$$

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where

- ▷  $\mathcal{F}_i$ : fitness function of string  $i$ .
- ▷  $\alpha(k)$ : constant.
- ▷  $\delta(i, k)$ :  $k$ -th minimum distance from string  $i$ .

# Auto Advancing

- ❑ Automatic advancing to next overlays using `\hypersetup{pdfpageduration=n}` where  $n$  is duration time in seconds.
- ❑ This requires Adobe Reader setup.
  - ▶ Go to Edit → Preferences → Full Screen.
  - ▶ Select **Advance Every**, and set it to **60** in Windows or **1000** in Linux.
- ❑ Do not forget to reset the duration time (=500)!
- ❑ Ready? Next slides will automatically advance in every 1 second.

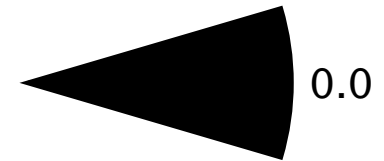
# Auto Advancing - Animation

- Any overlays can be animated.
- In this example overlay macros are inside the `multido` macro.



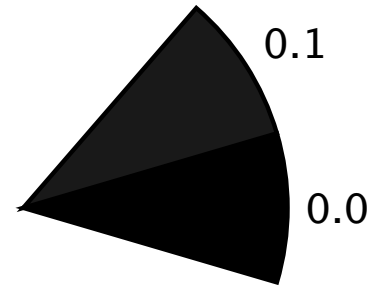
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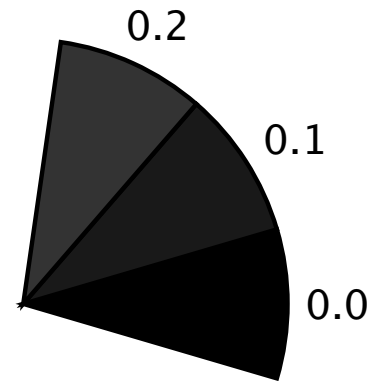
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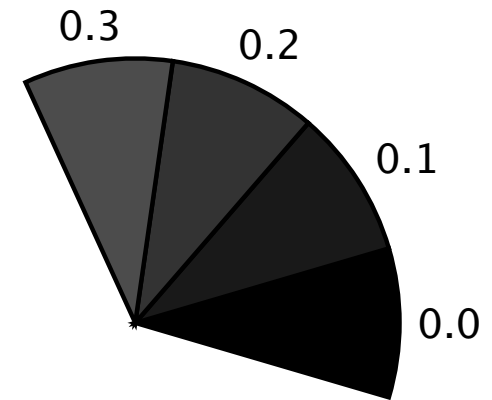
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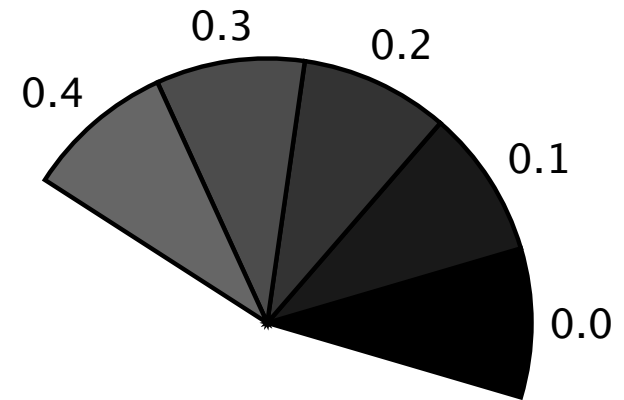
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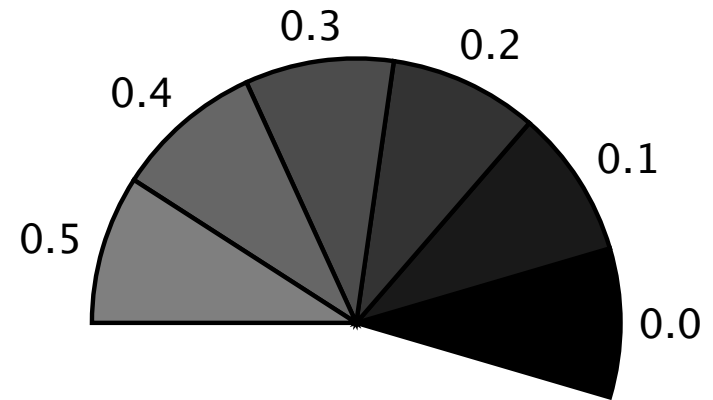
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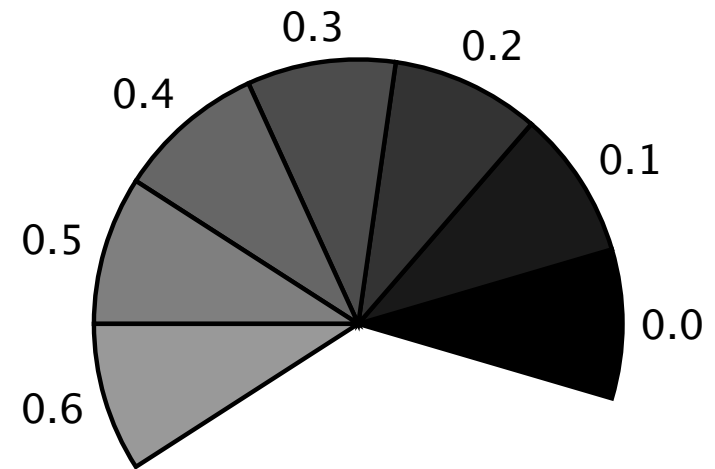
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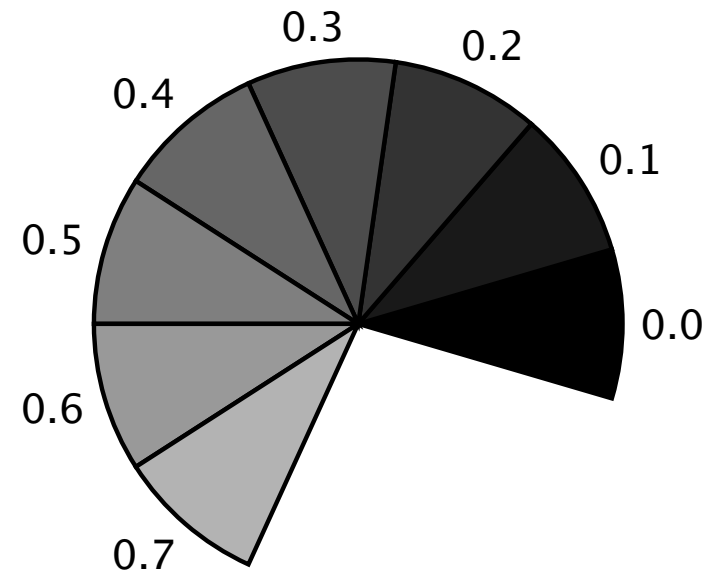
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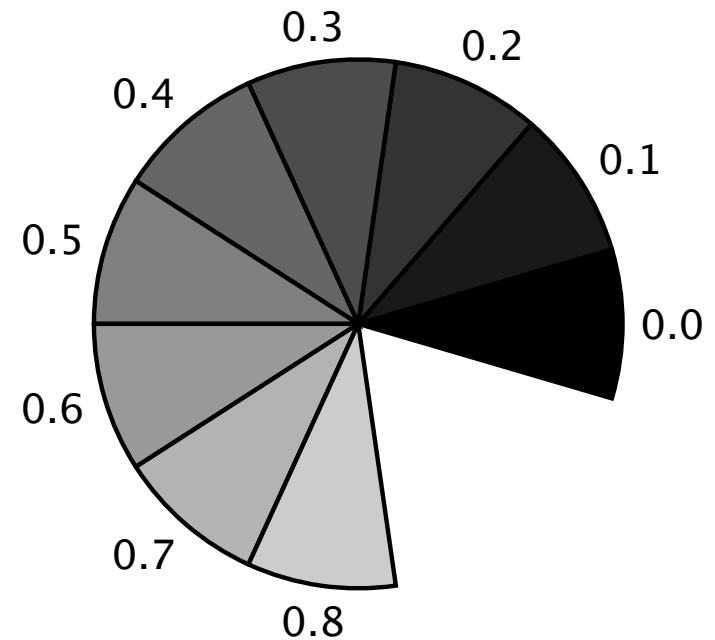
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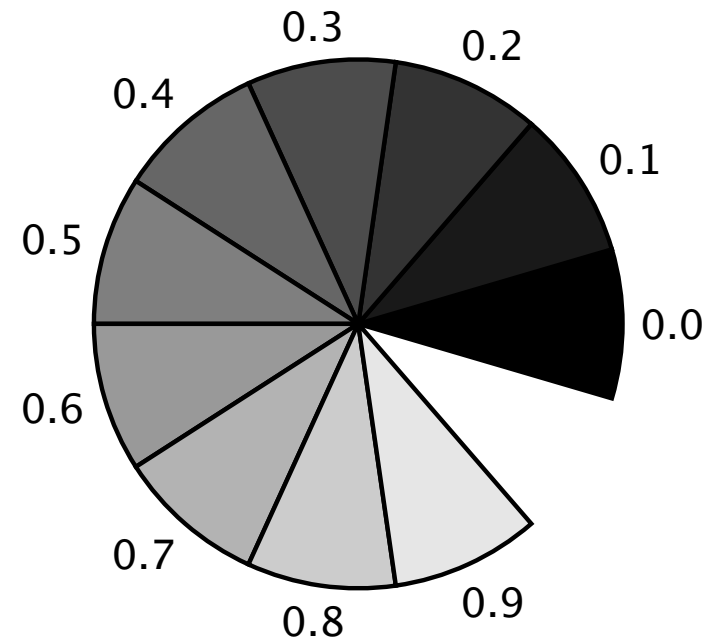
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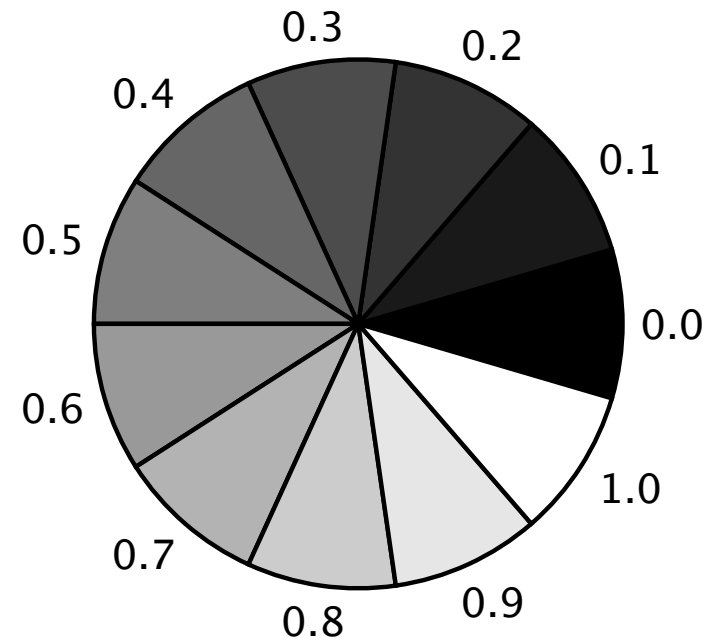
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# Background Change

- A **PPRxxx.sty** file will tell you how to do.
  - ▶ Define your background style or load a background image before a new slide environment.
  - ▶ Put your background name using `\NewSlideStyle{t}{x,y}{bg_name}`.

## □ Example:

```
\newcommand{\SlopeGradient}[1]{%
  \psframe[fillstyle=radslope,slopebegin=blue,slopeend=white,%
    slopeangle=0](-2,-1.4)(12.5,9)
  \PutLogo % Mandatory
  {#1}}
\NewSlideStyle{t}{5.3,2.7}{SlopeGradient} % New bg_name goes here.
```

# New Background w/ Blinds Transit

- **Slope gradient** background is shown in this slide.
- You can also include ...
  - graphics for your background, or
  - load other Prosper style file.

# Navigation Bars

- **Navigation bars** are useful to show where you are.  
⇒ Prosper does not support this.
- You can add navigation bars.
  - ▶ See [sem-dem5.pdf](#) by Denis Girou (Semina Package maintainer).
  - ▶ See [HA-prosper](#) that supports navigational panels, wide slide, and double slide options.

# Color Behavior

- Due to conflicts between `pstcol` and `color` packages, put the following code to `color.cfg` in `/tex/latex/00miktex`. [Click [here](#) to go back].

```
% workaround for a strange bug in color.sty/seminar/prosp
\def\color@gray#1#2{%
  \color@arg{#2}%
  \edef#1{gray #2}%
}
```

- `colorlinks=true` option in `hyperref` package makes the *cover title* in *black*.

# Useful Links

- [Prosper](#) home page.
- [Seminar Package](#) by Denis Girou.
- [Beamer class](#): Another great PDF presentation tool.
- [Screen Presentation Tools](#) discusses lots of presentation tools based on PDF, HTML, and others.