

# Introducing Impressive

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version 0.13.0

<http://impressive.sourceforge.net/>

# What is Impressive?

## **Impressive is a PDF and image viewer optimized for presentations**

- ... with some eye candy ;)
- uses OpenGL for display
- uses MuPDF or Xpdf to render PDF files
- written in Python
- available for Unix-like and Windows operating systems
- Open Source (GPLv2)

# Software Requirements

Impressive requires a few libraries and helper applications:

- Python 2.7, 3.6 or newer
- PyGame (SDL bindings for Python)
- Python Imaging Library (PIL or Pillow)
- MuPDF-Tools
- *optional*: pdftk, MPlayer, FFmpeg







Packages for these dependencies should be available for almost every operating system.

For Windows, there's a convenient self-contained archive with everything needed.

# Hardware Requirements

- hardware accelerated OpenGL 2.0 or OpenGL ES 2.0
  - any GPU from 2005 or later should do
  - integrated graphics or mobile GPUs are fine
  - on fast CPUs, even a JIT-accelerated software renderer (e.g. Gallium LLVMpipe) is sufficient
- CPU performance generally not very important
  - runs OK on Raspberry Pi




# How does it work?

- 1 create slides with the presentation software of your choice
- 2 export them to a PDF file
- 3 impressive MySlides.pdf
  - left mouse button, mouse wheel down,  
 or  :  
next slide
  - right mouse button, mouse wheel up,  
 or  :  
previous slide
  -  or  : quit

# Emphasis

Impressive offers multiple ways of emphasizing parts of a page.

## Option 1: „Spotlight“

- toggle with 
- a bright circular spot follows the mouse cursor
- everything else gets dark and blurry
- spot size adjustable with  /   
or the mouse wheel


# Highlight Boxes

## Option 2: Highlight Boxes


- drag a box with the left mouse button
- everything else gets dark and blurry
- any number of boxes per page
- delete a box by clicking it with the right mouse button
- boxes stay even after leaving and re-entering the page

# Zoom

## Option 3: Box Zoom




- hold  while dragging a box with the left mouse button
- selected area zooms in so it covers the full screen
- everything else is faded out

## Option 4: Zoom and Pan

-  key toggles 2x zoom
- visible part can be moved around by dragging with the middle mouse button
- zoom level can be fine-tuned with the mouse wheel



# Overview Page

- press the  key
- Impressive zooms back to an overview screen showing all pages of the presentation
- new page can be selected with mouse or keyboard
- left mouse button or  zooms into selected page
- right mouse button or  cancels and returns to the previously shown page

# Customization

- command line parameters (*lots of them!*)
- „Info Scripts“
  - same name as the input file, but suffix `.info`,  
e.g. `slides.pdf` → `slides.pdf.info`
  - real Python scripts, executed before the presentation starts
  - can be used to set the document title or other settings
  - can be used to set up per-page settings:  
„Page Properties“
    - title
    - transition effect
    - ...

# Info Script Example

```
# -*- coding: iso8859-1 -*-
```

```
DocumentTitle = "Example Presentation"
```

```
PageProps = {  
    1: { 'title': 'Title Page' },  
    2: { 'title': 'Introduction',  
        'transition': PagePeel },  
    5: { 'timeout': 3500 },  
    8: { 'overview': False }  
}
```

# Other Features

- clickable PDF hyperlinks inside the document
- background rendering, pages cached in RAM or disk
- time display and measurement
- automatic, timed presentations
  - can turn a Raspberry Pi into a digital signage system
- automatic reloading of the input file(s) on change
- playing sounds or videos or executing arbitrary Python code when entering a page
- fully customizable keyboard and mouse controls
- zoom with the mouse wheel

# More Features

- fade to black or white
- rotation in 90-degree steps
- page bookmarks (keyboard shortcuts)
- only show a subset of the presentation
- hide specific pages from the overview page
- customization of almost every timing or OSD parameter
- permanent storage of the highlight boxes
- “Render Mode”: doesn’t show the presentation, but renders the input PDF file into a directory with one PNG file per page

# Missing Features

- painting and annotations
- multi-monitor support
- “Presenter Screen” with notes etc.
- support for embedded videos
- integration into (or cooperation with) latex-beamer and OpenOffice.org Impress
- *your feature here*

# Get in touch

**Questions, Suggestions, Comments?**

just write to

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**Try Impressive!**

downloads are available at

<http://impressive.sourceforge.net/>

and packages in most Linux distributions