

Multimedia

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Uwagi ogólne

1. Nie jest łatwo.
2. Efekt zależy bardzo mocno od wersji przeglądarki PDF i systemu operacyjnego.
3. Windows/Acrobat Reader???

Prerekwizyty

1. multimedia.sty (dostarczony wraz z beamerem)
2. xmpmulti.sty (dostarczony wraz z beamerem)
3. ...

Efekty przejść między slajdami

1. W zasadzie działa!

Przykład

```
\only<1>{\pgfuseimage{youngboy}}  
\only<2>{\pgfuseimage{man}}  
\transdissolve<2>
```

Przykład



Przykład



Przykład



Przykład



Przykład



Przykład



muzyka

```
\movie[autostart]{}{applause.wav}
```

muzyka

```
\movie[autostart]{}{applause.mp3}
```

```
\movie[label=clip,width=4cm,height=3cm,  
        poster,showcontrols]{clip}{clip0003.avi}
```

clip

Animacje

1. To jest dosyć proste.
2. Animacja to sekwencja obrazków różniących się nieco jeden od drugiego...
3. ...wystarczy je odtworzyć wystarczająco szybko

Prosty przykład

Ala ma kota

Prosty przykład

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Prosty przykład

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Prosty przykład

Ala ma kota

Prosty przykład

Ala ma kota

Animacje, cd

- ▶ Wymaga to pewnego wysiłku, ale można osiągnąć różne efekty

```

\newcount\opaqueness
\begin{frame}
  \animate<2-50>
  \animatevalue<1-50>{\opaqueness}{100}{0}
  \begin{colormixin}{\the\opaqueness!averagebackgroundcolor}
    \frametitle{Fadeout Frame}
    This text (and all other frame content) will fade
    out when the second slide is shown. This even
    works with {\color{green!90!black}colored}
    \alert{text}.
  \end{colormixin}
\end{frame}

```

Fadeout Frame

This text (and all other frame content) will fade out when the second slide is shown. This even works with **colored text**.

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Fadeout Frame

Przykład 2

```
\newcount\opaqueness
\newdimen\offset
\begin{frame}
  \frametitle{Flying Theorems (You Really Shouldn't!)}
  \animate<2-14>
  \animatevalue<1-15>{\opaqueness}{100}{0}
  \animatevalue<1-15>{\offset}{0cm}{-5cm}
  \begin{colormixin}{\the\opaqueness!averagebackgroundcolor}
  \hskip\offset
    \begin{minipage}{\textwidth}
      \begin{theorem}
        This theorem flies out.
      \end{theorem}
    \end{minipage}
  \end{colormixin}
  \animatevalue<1-15>{\opaqueness}{0}{100}
  \animatevalue<1-15>{\offset}{-5cm}{0cm}
  \begin{colormixin}{\the\opaqueness!averagebackgroundcolor}
  \hskip\offset
    \begin{minipage}{\textwidth}
      \begin{theorem}
        This theorem flies in.
      \end{theorem}
    \end{minipage}
  \end{colormixin}
\end{frame}
```

Flying Theorems (You Really Shouldn't!)

Theorem

This theorem flies out.

Flying Theorems (You Really Shouldn't!)

Theorem

This theorem flies out.

Flying Theorems (You Really Shouldn't!)

Theorem

This theorem flies out.

Flying Theorems (You Really Shouldn't!)

Theorem

This theorem flies out.

in.

Flying Theorems (You Really Shouldn't!)

Theorem

this theorem flies out.

flies in.

Flying Theorems (You Really Shouldn't!)

orem

theorem flies out.

flies in.

Flying Theorems (You Really Shouldn't!)

em

theorem flies out.

m flies in.

Flying Theorems (You Really Shouldn't!)

orem flies out.

orem flies in.

Flying Theorems (You Really Shouldn't!)

m flies out.

m

m flies in.

Flying Theorems (You Really Shouldn't!)

flies out.

orem

theorem flies in.

Flying Theorems (You Really Shouldn't!)

flies out.

theorem

this theorem flies in.

Flying Theorems (You Really Shouldn't!)

out.

Theorem

This theorem flies in.

Flying Theorems (You Really Shouldn't!)

it.

Theorem

This theorem flies in.

Flying Theorems (You Really Shouldn't!)

Theorem

This theorem flies in.

Flying Theorems (You Really Shouldn't!)

Theorem

This theorem flies in.

Sekwencja obrazków

1. Użyć należy pakietu xmpmulti
2. Trzeba mieć szereg obrazków (klatek animacji) nazwanych obrazek-*<numer>*.*<ext>*
3. Używamy polecenia:

```
\multiinclude[<+>] [format=jpg,start=1]{obrazek}
```

Przykład



Przykład



Przykład



Przykład



Przykład



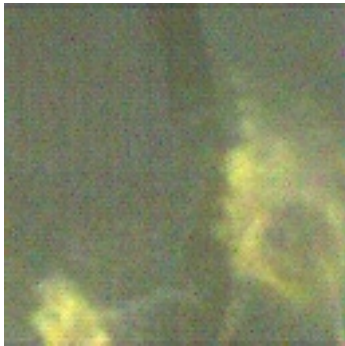
Przykład



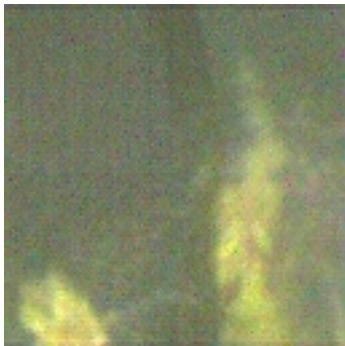
Przykład



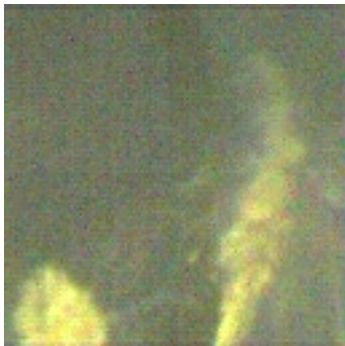
Przykład



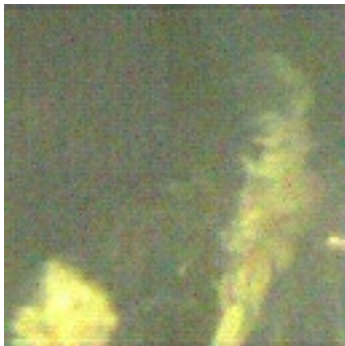
Przykład



Przykład



Przykład



Przykład



Przykład



Przykład



Przykład



Przykład

