

PDF animations – generated with aeb_pro

Contributeurs

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<http://melusine.eu.org/syracuse/G/pstricks/>

1 PDF animations of PSTricks figures with aeb_pro

1.1 System requirements

Distiller needed and the packages xxx located on www.xxx

1.2 The preamble

Given a preamble ...

```
1 \documentclass{article}
2 \usepackage{amsmath,amssymb}
3 \usepackage[%
4     driver=dvips,
5     web={pro,tight},
6     exerquiz={german,execJS,showgrayletters},
7     uselayers,ocganime,
8     eforms={useui},
9     graphicxsp
10 ]{aeb_pro}
11 \usepackage{multido}
12 \usepackage[nomessages]{fp}
13 \usepackage[absolute,overlay]{textpos}
14 \usepackage{pstricks,pst-plot}
15 \usepackage{pstricks-add}
```

1.3 Setting some custom defined animation buttons (with transparent mouse-over effect)

```
1 \newcommand{\panelIcons}[1]{
2 \embedEPS[hiresbb,transparencyGroup]{#1}{#1}
3 \begin{createImage}{\bboxOf{#1}}{n#1}
4     [ {#1} /SP pdfmark
5 \end{createImage}
6 \begin{createImage}{\bboxOf{#1}}{d#1}
7     [ /ca .5 /SetTransparency pdfmark
8     [ {#1} /SP pdfmark
9 \end{createImage}
10 \begin{createImage}{\bboxOf{#1}}{r#1}
11     [ /ca .7 /SetTransparency pdfmark
12     [ {#1} /SP pdfmark
13 \end{createImage}
14 }
15
16 \panelIcons{animBtnPlayF}
17 \panelIcons{animBtnPlayB}
18 \panelIcons{animBtnStepF}
19 \panelIcons{animBtnStepB}
20 \panelIcons{animBtnPause}
21 \panelIcons{animBtnFrameFirst}
22 \panelIcons{animBtnFrameLast}
```

1.4 The animation

```

1 \begin{ocgAnime}{ocgAnimeName=grapha,nFrames=17,controls=none,speed=60}
2 \def\voc{%
3 \animeBld%
4 \psset{Rayon=3,Boule=false,pas=0.1}
5 \psBowlGrid[linecolor=gray,linewidth=0.05mm,grille=5,Ymin=-80,Ymax=80,Xmax=80,Xmin=-80,
6 normale=0 \ai](5,0,0)%
7 \psBowlImage[normale=0 \ai](5,0,0){asterixobelix.eps}%
8 \eBld
9 }
10 \begin{pspicture}(-3,-3.75)(3,3.75)
11 \psframe*(-3,-3.75)(3,3.75)
12 \FPdiv{\myDeltaA}{150}{17}%
13 \def\ai{-75}%
14 \multido{\i=1+1}{17}{\FPadd{\ai}{\ai}{\myDeltaA}\voc}%
15 \end{pspicture}
16 \end{ocgAnime}

```

1.5 The button panel

```

1 \animeSetup{ocgAnimeName=grapha,nFrames=17,speed=60}
2
3 \definecolor{syracuseVERT}{HTML}{029235}
4
5 \begin{center}
6 \fcolorbox{black}{syracuseVERT}{%
7 \parbox{0.55\linewidth}{\centering
8 \textcolor{white}{\textbf{\textsl{The Syracuse Animation Buttons}}}}
9 \\\[8pt]
10 \pushButton[%
11 \ui{tooltip=First frame}%
12 \autoCenter{n}\BC{} \BG{} \S{S}
13 \A{\JS{\btnAnimeFirstAction}}
14 \I{animBtnFrameFirst}\RI{danimBtnFrameFirst}\IX{ranimBtnFrameFirst}\TP{1}\FB{true}
15 ]{pbanimBtnFrameFirst}{0.75cm}{0.75cm}
16 \pushButton[%
17 \ui{tooltip=Step backward}%
18 \autoCenter{n}\BC{} \BG{} \S{S}
19 \A{\JS{\btnAnimeSBAction}}
20 \I{animBtnStepB}\RI{danimBtnStepB}\IX{ranimBtnStepB}\TP{1}\FB{true}
21 ]{pbanimBtnStepB1}{0.75cm}{0.75cm}
22 \pushButton[%
23 \ui{tooltip=Play backwards}%
24 \autoCenter{n}\BC{} \BG{} \S{S}
25 \A{\JS{\btnAnimePBAction}}
26 \I{animBtnPlayB}\RI{danimBtnPlayB}\IX{ranimBtnPlayB}\TP{1}\FB{true}
27 ]{pbanimBtnPlayB1}{0.75cm}{0.75cm}
28 \pushButton[%
29 \ui{tooltip=Pause}%
30 \autoCenter{n}\BC{} \BG{} \S{S}
31 \A{\JS{\btnAnimePauseAction}}
32 \I{animBtnPause}\RI{danimBtnPause}\IX{ranimBtnPause}\TP{1}\FB{true}
33 ]{pbanimBtnPause1}{0.75cm}{0.75cm}
34 \pushButton[%
35 \ui{tooltip=Play forwards}%
36 \autoCenter{n}\BC{} \BG{} \S{S}
37 \A{\JS{\btnAnimePFAction}}
38 \I{animBtnPlayF}\RI{danimBtnPlayF}\IX{ranimBtnPlayF}\TP{1}\FB{true}
39 ]{pbanimBtnPlayF1}{0.75cm}{0.75cm}
40 \pushButton[%
41 \ui{tooltip=Step forward}%

```

```

42 \autoCenter{n}\BC{}\BG{}\S{S}
43 \A{\JS{\btnAnimeSFaction}}
44 \I{nanimBtnStepF}\RI{danimBtnStepF}\IX{ranimBtnStepF}\TP{1}\FB{true}
45 ]{pbanimBtnStepF1}{0.75cm}{0.75cm}
46 \pushButton[%
47 \ui{tooltip=Last frame}%
48 \autoCenter{n}\BC{}\BG{}\S{S}
49 \A{\JS{\btnAnimeLastAction}}
50 \I{nanimBtnFrameLast}\RI{danimBtnFrameLast}\IX{ranimBtnFrameLast}\TP{1}\FB{true}
51 ]{pbanimBtnFrameLast1}{0.75cm}{0.75cm}
52 ]}
53 \end{center}

```