The ltx4yt Package

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1 (*package)					

1 Introduction

It is July 2020 and Adobe's support for Flash will vanish in December. Google stopped supporting Flash several years ago, so the package yt4pdf is no longer functional and will be withdrawn from CTAN. If we cannot play videos within PDF anymore, the next best course is to develop some basic commands for playing YouTube videos in the default browser, preferably without any annoying advertisements. This can be done for some videos, but for others it cannot be done.

2 \RequirePackage{xkeyval}

usepopup!usepopup

When this option is taken, additional code to support the use of popup menus is input. We also support !popup, which is a convenience option for not using usepopup.

- 3 \DeclareOption{usepopup}{\def\lo@dpu{\InputIfFileExists{ytpu.def}}
- 4 {\PackageInfo{ltx4yt}{Loading ytpu.def}}
- 5 {\PackageInfo{ltx4yt}{Can't find ytpu.def}}}}
- 6 \DeclareOption{!usepopup}{}
- 7 \let\lo@dpu\relax

- 8 \AtEndOfPackage{\lo@dpu}
- 9 \ProcessOptions
- 10 \RequirePackage{xcolor}
- 11 \RequirePackage{eforms}

If the usepopup option is taken, we load the popupmenu package.

- $12 \left(\frac{12}{\sqrt{1000}} \right)$
- 13 \def\YT@rpPU{\RequirePackage{popupmenu} [2020/07/26]}\expandafter
- 14 \YT@rpPU\fi

2 Implementation

The JavaScript method app.launchURL{ $\langle \textit{URL} \rangle$ } is used to open the default browser on the page determined by $\langle \textit{URL} \rangle$. The links created use \URI (/S/URI/URI), this action type allows links to be functional in all PDF viewers, even on hand held devices.

We have three implementations of this plan: (1) links (\ytvId and \ytLink) for all devices; (2) dropdown menus (combo boxes) (\ytComboList (uses JavaScript); and (3) pop-up menus using the popupmenu environment of the popupmenu package (uses JavaScript). The methods that use JavaScript will not function in the near future on hand held devices.

2.1 Playing a YouTube video from its Video ID

In this section, we create several ways of calling for a YouTube video to play in the default browser.

2.1.1 Using a Link

- \ytvIdPresets{\langle KV-pairs \rangle} The options for the \ytvId link. The default is given below in the definition. Initially, the preset is to produce webbrown colored links.
 - $15 \ensuremath{\t 15 \ensuremath{\t 15 \ensuremath{\t 15}} } [1] {\ensuremath{\t 15 \ensuremath{\t 15}}} \\$
 - $16 \ensuremath{\mbox{definecolor{webbrown}{rgb}{.6,0,0}} \% from the web package}$
 - 17 \ytvIdPresets{\linktxtcolor{webbrown}}

Here is a convenience command. This definition has since been made in insdljs.

- 18 \providecommand{\URI}[1]{/S/URI/URI(#1)}
- \ytURL Define \ytURL to expand to the YouTube web site.
 - 19 \def\ytNF{false}
 - 20 \def\ytURL{https://www.youtube.com}
- $\t (opts) = (\langle ytvID \rangle) + (\langle text \rangle)$ The $\t is link which when pressed plays the video whose Video Id is <math>(\langle ytvID \rangle)$ in the default browser.
 - * If the *-option is taken, you have determined that this video cannot be embedded (which is the ideal) and must be played normally on YouTube with all advertisements and other extraneous information.

```
(opts): link optional KV-pairs to modify the appearance of the link.
            \langle ytvID \rangle: The video Id for the YouTube video to play
             \langle text \rangle: The text that displays the link.
          {\let\yt@ask\@empty\yt@@vId}}
          23 \newcommand{\yt@@vId}[3][]{%
               \ifx\yt@ask\@empty
          24
                 \def\yt@lnk@hash{embed/#2}\else
          25
                 \def\yt@lnk@hash{watch?v=#2}\fi
          26
          27
               \setLink[\presets{\yt@vIdPresets}#1
                 \A{\URI{\ytURL/\yt@lnk@hash}}]{#3}%
          28
\t MI*[\langle opts \rangle] \{\langle ytvID \rangle\} \{\langle text \rangle\} The \t is link which when pressed plays the video
          whose Video Id is \langle ytvID \rangle in the default browser. This is a multi-line link, it
          requires the aeb_mlink package and the dvips -> distiller workflow.
          30 \newcommand{\ytvIdML}{\@ifstar{\def\yt@ask{*}\yt@@vIdML}
               {\let\yt@ask\@empty\yt@@vIdML}}
          31
          32 \newcommand{\yt@@vIdML}[3][]{%
               \ifx\yt@ask\@empty
          33
                 \def\yt@lnk@hash{embed/#2}\else
          34
                 \def\yt@lnk@hash{watch?v=#2}\fi
               \mlsetLink[\presets{\yt@vIdPresets}#1
          36
          37
                 \A{\URI{\ytURL/\yt@lnk@hash}}]{#3}%
          38 }
```

 $\time {\langle opts \rangle} {\langle spec \rangle} {\langle text \rangle}$ We create a custom link for youtube videos. The $\langle spec \rangle$ (specification) argument has several forms for maximum convenience and flexibility.

This is the form for playing a video with $\langle ytvID \rangle$ that can be embedded (this best type of video). The \params argument must follow the \embedId, its argument are any parameters you want to append to the URL. The use of \params is optional; however, without the \params you may as well use \ytvId{\langle ytvID\rangle} {\langle text\rangle}.

• $\t \sum_{\langle ytvID \rangle} \operatorname{meters} } {\langle ytvID \rangle}$

This is the form for playing a video with $\langle ytvID \rangle$ that cannot be embedded (advertisements and other information appears). The \params argument must follow the \watchId, its argument are any parameters you want to append to the URL. The use of \params is optional; however, without the \params you may as well use \ytvId*{ $\langle ytvID \rangle$ }{ $\langle text \rangle$ }.

A form that does not specify a video ID. It is useful for more general actions, such as searches, for example,

```
\ytLink{\embed{listType=search&list=Adobe Acrobat DC}}
{Search for Adobe Acrobat DC}
```

This form does not have a \params optional argument as all the parameters are built into the argument of \embed.

• $\t \langle spec \rangle$ { $\langle text \rangle$ }

The most general form. The action of this link is $\URI{\yturl/\langle spec\rangle}$; for example,

```
\ytLink{embed?listType=search&list=Adobe Acrobat DC}
{Search for Adobe Acrobat DC}
```

Here you are free to build whatever URL you can imagine.

• \ytLink{\channel{ $\langle name \rangle$ }}{ $\langle text \rangle$ } Such a link displays the channel $\langle name \rangle$. For example,

```
\ytLink{\channel{rocketjump}}{The RocketJump Channel}
```

This link opens the YouTube channel named rocketjump.

Passing Player Parameters. As was illustrated above, the custom link \ytLink can pass various recognizable parameters to YouTube. After reviewing,

```
https://developers.google.com/youtube/player_parameters#Parameters
```

the following parameters are recommended, some of them are illustrated in the sample document ltx4yt-1.tex:

- autoplay=(0|1) (default 0)
- controls=(0|1) (default 1)
- fs=(0|1) (default 1)
- modestbranding=(0|0)
- playlist= $\langle list \rangle$
- listType=search&list=\(\langle query \rangle \)

The specialized needs of the document author is most easily accommodated through the use of the \ytLink command, for example,

39 \newif\ifytwatch \ytwatchfalse

The \ytLink command. Before getting to \ytLink an d\ytLinkML, there is a long stream of commands to parse the \(spec \) argument of \ytLink. It goes through looking for \watchId, \embedId, \embed, and \params. As it progresses, it adds code to the macro \ytspec, which at the end of things will hold the fully formed \(spec \) for insertion into the URL.

```
40 \def\yt@@parse{\let\ytspec\@empty\yt@parse}
41 \def\yt@parse{\@ifnextchar\@nil{\@gobble}{\yt@parsei}}
42 \def\yt@parsei{\@ifnextchar\watchId{% check for \watchId
                 \ytwatchtrue\yt@parse@watch}{\yt@parseii}}
44 \def\yt@parse@watch\watchId#1{\g@addto@macro
                 \ytspec{\watchId{#1}}\yt@parse}
45
46 \ensuremath{$\def\yt@parseii{\clinextchar\ensuremath{$\def\wed{1d}$}}\xspace check for \ensuremath{$\deck$}\xspace check for \ensuremath{\deck$}\xspace check for \ensuremath{\deck$}\xspace
                \yt@parse@embedId}{\yt@parseiii}}
47
48 \def\yt@parse@embedId\embedId#1{\g@addto@macro
                \ytspec{\embedId{#1}}\yt@parse}
50 \def\yt@parseiii{\@ifnextchar\embed{% check for \embed
                \yt@parse@embed}{\yt@parseiv}}
52 \def\yt@parse@embed\embed#1{\g@addto@macro
               \ytspec{\embed{#1}}\yt@parse}
54 \ensuremath{\mbox{\mbox{offnextchar}params}{\%}$ check for \params}
             \yt@parse@params}{\yt@parsev}}
56 \def\yt@parse@params\params#1{\ifytwatch
                \g@addto@macro\ytspec{&#1}\else
57
                 \g@addto@macro\ytspec{?#1}\fi
58
                \yt@parse}
59
If we get this far, (spec) is raw, has none of the helper commands. So we just
insert the entire argument into \ytspec.
60 \def\yt@parsev#1\@nil{\g@addto@macro\ytspec{#1}}
All preliminaries done, we define \ytLink
61 \newcommand{\ytLink}[3][]{\begingroup
                 \def\embedId##1{embed/##1}%
                 \label{lembed} $$ \end{area} $$ \end{area}
63
                \def\ \\def\\channel\#1{\channel\#1{\c/\#1}\\def\\channel\#1{\c/\#1}\\
                \def\user##1{user/##1}%
65
                \yt@@parse#2\@nil % returns arg in \ytspec
66
                \def\URLArg{\ytURL/\ytspec}%
67
                \setLink[\presets{\yt@vIdPresets}#1\A{\URI{\URLArg}}
68
                ]{#3}\endgroup
69
70 }
```

```
71 \newcommand{\ytLinkML}[3][]{\begingroup
```

^{72 \}def\embedId##1{embed/##1}%

⁷³ $\def \params ##1{##1}\def \embed ##1{embed?##1}%$

^{74 \}def\watchId##1{watch?v=##1}\def\channel##1{c/##1}%

^{75 \}def\user##1{user/##1}%

^{76 \}yt@@parse#2\@nil % returns arg in \ytspec

```
77 \def\URLArg{\ytURL/\ytspec}%
78 \mlsetLink[\presets{\yt@vIdPresets}#1
79 \A{\URI{\URLArg}}
80 ]{#3}\endgroup
81 }
```

2.1.2 Using a Combobox

All commands associate with a combo box play list.

 $\label{list} $$ \conton{Bethe produces a combo box (dropdown menu) of video Ids and titles. The user selects a video based on its title, then presses the PLAY button. The two commands $$ \ytComboListPresets and $$ \ytComboBtnPresets are used to set the appearances of the combo box and the PLAY button.$

```
⟨opts⟩: eforms key-value pairs
⟨name⟩: A unique name (ASCII letters and numbers)
⟨wd⟩: The width of the combo box
⟨ht⟩: The height of the combo box

Now we have the code for \ytComboList
82 \newcommand{\ytComboList}[4][]{%
83 \comboBox[\Ff{\FfCommitOnSelChange}\DV{\yt@pl@def}\V{\yt@pl@def}\
4 \presets{\yt@ComboListPresets}#1]{ytSelect#2}
85 {#3}{#4}{*\yt@pl@pl}% 2020/07/22 v0.4
86}
```

```
\langle opts \rangle: The KV-pairs to pass to the underlying push button.
  (name): A unique name (ASCII letters and numbers)
     \langle wd \rangle: The width of the combo box
     \langle ht \rangle: The height of the combo box
87 \newcommand{\ytStrPLAY}{PLAY}
88 \mbox{newcommand{\tytComboBtn}[4][]{}}
    \pushButton[\TU{Click to play}\CA{\ytStrPLAY}
89
       \presets{\yt@ComboBtnPresets}#1
90
       \A{\JS{var f=this.getField("ytSelect#2");\r
91
       var ytID=f.value;\r
92
       var i=f.currentValueIndices;\r
93
       var ytFV=f.getItemAt(i,false);\r
94
       var i=ytFV.indexOf("*");\r
95
96
       if ( i == -1 )\r\t
         app.launchURL("\ytURL/embed/"+ytID,\ytNF);\r
```

```
98
                                                                    else\r\t
                                                                         app.launchURL("\ytURL/watch?v="+ytID,\ytNF);
                                                    99
                                                              }}]{ytSelectBtn#2}{#3}{#4}%
                                                  100
                                                  101 }
                   \ytPlayList(\langle ytvID \rangle) \{\langle cmd \rangle\} This command is executed before \ytComboList to set the ini-
                                                    tial/default value (\langle ytvID \rangle) of the combo box and the play list (\langle tcmd \rangle). Here
                                                    (\cma) is a command defined by the \declarePlayList command. Use the
                                                     \ytPlayList to pass the play list to the next combo box.
                                                  102 \newcommand{\ytPlayList}{\begingroup\@makeother\_\@makeother\',
                                                                    \ytPlayList@i}
                                                  104 \ef \t014 \t02{\ef \t014} \t02{\ef \t014} \t014 \t014 \t014 \t014} \t014 \t014
\t V-pairs for \t ComboList.
                                                  105 \mbox{\comboListPresets} [1] {\comboListPresets} \#1} \}
                                                  106 \let\yt@ComboListPresets\@empty
  \t V-pairs for \t ComboBtn.
                                                  107 \newcommand{\ytComboBtnPresets}[1]{\def\yt@ComboBtnPresets{#1}}
                                                  108 \let\yt@ComboBtnPresets\@empty
                      \mathsf{ytIdTitle}(\langle text \rangle) \{\langle VidID \rangle\} A convenience command to lay out the playlist.
                                                  109 \newcommand{\ytIdTitle}[2]{[(#2)(#1)]}
       \declarePlayList A video ID may contain characters IATEX considers special, so we sanitize these
                                                    special characters before reading in the video ID. Near as I can determine, a video
                                                    id consists of 11 characters comprising combinations of letters (A-Z,a-z) numbers
                                                    (0-9) and special characters underscore and hyphen (_ and -). We sanitize the last
                                                    two.
                                                             \declarePlayList{\\cmd\}{
                                                                     \time {\langle text \rangle} {\langle VidID \rangle}
                                                                     \time {\langle text \rangle} {\langle VidID \rangle}
```

}

The entries may also be in raw form '[(\ameta{VidID}) (\ameta{text})]'. Note that the two arguments are enclosed in parentheses, there is a problem with parsing if $\langle text \rangle$ itself contains parentheses. Within $\langle text \rangle$ enclose matching parentheses in braces, for example,

\ytIdTitle{Kung-Fu Fighting {(Bruce Lee version)}}{GZ9e3Dy7obA}

The role of * in the title. If an * appears in the title, this means that the video cannot be embedded. Viewing the video will come with advertisements and other information that YouTube generates.

\ytIdTitle{Kung-Fu Fighting* {(Original version)}}{jhUkGIsKvn0}

```
110 \newcommand{\declarePlayList}[1]{\bgroup
     \Hy@unicodefalse
111
     \let\pl@yList\@empty
112
     \ifpdfmarkup
113
       \def\Esc{\eqbs}\else\def\Esc{}\fi
114
     \def\cs##1{\eqbs\eqbs##1}\relax
115
116
     \@makeother\_\@makeother\-
     \yt@declarePlayList{#1}%
117
118 }
119 \def\yt@declarePlayList#1#2{%
     \yt@declarePlayList@i#2\@nil\relax\relax
120
     \toks@=\expandafter{\pl@yList}\relax
121
     \xdef#1{\pl@yList}\egroup
122
123 }
124 \def\yt@declarePlayList@i{\@ifnextchar\@nil
     {\expandafter\@gobbletwo\@gobble}
125
     {\yt@declarePlayList@ii}%
126
127 }
128 \def\yt@declarePlayList@ii\ytIdTitle#1#2{%
129
     \pdfstringdef\yt@PLTitle{#1}%
     \edef\y{[(#2)(\yt@PLTitle)]}%
130
     \expandafter\g@addto@macro\expandafter
131
       \pl@yList\expandafter{\y}%
132
     \yt@declarePlayList@i
133
134 }
An example of use of \declarePlayList:
    \declarePlayList{\playListii}{
      \ytIdTitle{Elfego Baca}{gRwa0MdeqVs}
      \vtIdTitle{Texas John Slaughter}{7\vrk1B\vtLE8}
      \ytIdTitle{Swamp Fox}{-SBPnw5riLM&NR}
      \ytIdTitle{Zorro Promo}{cKludhxEoJ0}
135 (/package)
136 (*pujs)
```

2.1.3 Using a popup menu

These code lines (including the document JavaScript) are only included when the usepopup option is taken.

\ytUseMenus{\menu-names\} A command used to list popupmenu data. It defines a command \ytPopupData that is used in the JS support for popup menus. The argument \menu-names\text{\menu-names}\text{ is a comma-delimited list of menu names defined by a popupmenu environment. The command needs to be in the preamble.

```
137 \def\ytPopupAllMenuData{// ltx4yt: Begin popup menu data^J}%
138 \let\ytMenuNames\@gobble
139 \newcommand{\ytUseMenus}[1]{\bgroup
```

```
140
                  \edef\x{\noexpand\g@addto@macro\noexpand
           141
                    \ytMenuNames{,"\yt@menu"}}\x
           142
                  143
                  \toks@=\expandafter{\x^^J}%
           144
                  \expandafter\g@addto@macro\expandafter
           145
           146
                    \ytPopupAllMenuData\expandafter{\the\toks@}%
                \verb|\g@addto@macro\ytPopupAllMenuData| \\
           147
                  {// ltx4yt: End of popup menu data}%
           148
           149
                \egroup
           150 }
           151 \@onlypreamble\ytUseMenus
\puIdTitle A convenience macro for entering popupmenu data for youtube videos.
               \begin{popupmenu}{YTMenu}
                 \puIdTitle{Select a YouTube Video}{} A title has no yt Id
                 \begin{submenu}{title=Music Videos}
                    \puIdTitle{Kung-Fu Fighting Bruce Lee version}{GZ9e3Dy7obA}
                    \puIdTitle{\string\"Sea Hunt\string\" TV serie}{MW-IZ67iADU}
                  \end{submenu}
               \end{popupmenu}
            Note that we must protect the double quote.
           152 %\newcommand{\puIdTitle}[2]{\item{title={#1},%
           153 % return={[\itemindex, '#2']}}}
           154 \newcommand{\puIdTitle}[2]{\Hy@unicodefalse\pdfstringdef\x@YT{#1}%
                \edef\y@YT{\noexpand\item{title={\x@YT},%
                return={[\noexpand\itemindex,'#2']}}\y@YT}
           156
            Some convenience commands for setting up a push button to display the popup-
            menu on rollover.
           157 \def\ytpubtnCnt{0}
           158 \newcommand{\ytPopupBtn}[4][]{\bgroup
                \@tempcnta\ytpubtnCnt\relax
           159
                \advance\@tempcnta\@ne
           160
                \xdef\ytpubtnCnt{\the\@tempcnta}%
           161
                \pushButton[\cmd{\pmpvCAOff}\CA{YT Menu}
           162
                \textColor{0 0 1}\W1\BC{}\textSize{0}
           163
           164
                  \H{N}\S{S}\presets{\yt@PopupPresets}#1
           165
                  \AAmouseenter{ytPopupMenu("#2");} % dps
                  ]{ytPopup\ytpubtnCnt}{#3}{#4}\egroup
           166
           167 }
           168 \newcommand{\ytPopupPresets}[1]{\def\yt@PopupPresets{#1}}
           169 \let\yt@PopupPresets\@empty
           170 (/pujs)
           171 (*package)
```

2.2 Search YouTube interactively

```
\time = \int \int (\partial p t s) \{ \langle ud \rangle \} \{ \langle ht \rangle \} Provides a text field to enter a query string.
              172 \newcommand{\ytInputQuery}[3][]{%
              173 \textField[\TU{Enter a query text string}#1]{ytSearchTxt}{#2}{#3}}
    \t \ A push button what will search YouTube based on the query
               string.
              174 \newcommand{\ytSearch}[3][]{%
                   \pushButton[\CA{Search}#1\AAmouseup{%
              175
                      var f=this.getField("ytSearchTxt");\r
              176
                      var v=f.value;\r
              177
                      if ( v.replace(/\string\s/g,"") != "" )\r\t
              178
                        app.launchURL("\ytURL/embed?listType=search&list="+v);}
              180
                   ]{vtSearchBtn}{#2}{#3}}
\t \ A button to clear the query string.
              181 \newcommand{\ytClearQuery}[3][]{%
                    \pushButton[\CA{Clear}#1
              182
                      \AAmouseup{this.resetForm("ytSearchTxt");}
              183
              184
                   ]{ytSearchClr}{#2}{#3}%
              185 }
              186 (/package)
              187 (*pujs)
```

2.3 Document JavaScript

Some JavaScript to process the user's choice and to launch the browser to view the selected video.

```
188 \begin{insDLJS*}{yt}
189 \begin{newsegment}{ltx4vt: %
190 Popup Menu Data and JavaScript support functions}
191 var YTdebug=false;
192 var aYTLastChoice=new Array;
193 var bYTLastChoice=false;
194 \ytPopupAllMenuData
195 var aChoice; // make local
196 function ytProcessMenu(cMenu) { // aMenu->cMenu now a string
    var aMenu=eval(cMenu);
197
     var cChoice = app.popUpMenuEx.apply( app, aMenu );
198
     ytProcessMenu.cChoice=cChoice;
199
200
     if ( cChoice != null ) {
       aChoice=eval(cChoice);
       if (aChoice[1]=="") return null;
202
203
       var thisChoice=aChoice[0];
       eval(cMenu+thisChoice).bMarked=true;
204
       if (!bYTLastChoice) {
205
         eval(cMenu+aChoice[0]).bMarked=true;
206
```

```
207
       } else {
     var structLoc=eval(aYTLastChoice[1])[0]
208
     eval(aYTLastChoice[0]+structLoc).bMarked=false;
209
         eval(cMenu+aChoice[0]).bMarked=true;
210
211
212
       return aChoice;
213
     } else return null;
214 }
215 function ytPopupMenu(cMenu) { // cMenu now a string
     var aChoice=ytProcessMenu(cMenu);
216
     var cChoice=ytProcessMenu.cChoice;
217
218
     var aMenu=eval(cMenu);
     if (aChoice!=null) {
       var title=eval(cMenu+aChoice[0]).cName;
220
       var i=title.indexOf("*");
221
       var _hash=(i == -1)?"embed/"+aChoice[1]:"watch?v="+aChoice[1];
222
       if (!bYTLastChoice) {
223
         if(YTdebug) %
224
225 console.println("launching url https://www.youtube.com/"+_hash);
226
         else app.launchURL("https://www.youtube.com/"+_hash,false);
227
         aYTLastChoice=[cMenu,cChoice];
228
         bYTLastChoice=true;
       } else {
229
230 var cLastMenu=eval(aYTLastChoice[1])[0]
231
         aYTLastChoice=[cMenu,cChoice];
232
         if (cLastMenu!=aChoice[0]) {
           if (YTdebug) %
233
234 console.println("will launch url: https://www.youtube.com/"+_hash);
           else app.launchURL("https://www.youtube.com/"+_hash,false);
235
         } else {
236
           if (YTdebug) console.println("will NOT launch url");
237
238
           // choice is the same, uncheck this item
239
           eval(cMenu+aChoice[0]).bMarked=false;
           bYTLastChoice=false;
240
241
       }
242
     }
243
244 }
245 \end{newsegment}
246 \end{insDLJS*}
247 (*pujs)
248 (*package)
249 (/package)
```

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C \CA	O options: !usepopup
\channel 64, 74 \cmd 162 \comboBox 83	P \PackageInfo
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