The ltx4yt Package

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processed June 10, 2021

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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 Google stopped supporting Flash several years ago, so the package yt4pdf is no longer functional and will be withdrawn from CTAN.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 \edef\yt@restoreCats{%
    \catcode'\noexpand\"=\the\catcode'\"\relax
12
    \catcode'\noexpand\'=\the\catcode'\'\relax
13
    \catcode'\noexpand\,=\the\catcode'\,\relax
    \catcode'\noexpand\!=\the\catcode'\!\relax
14
15 }
16 \@makeother\"\@makeother\',\@makeother\!
17 \RequirePackage{xcolor}
18 \RequirePackage{eforms}
If the usepopup option is taken, we load the popupmenu package.
19 \ifx\lo@dpu\relax\else
20 \def\YT@rpPU{\RequirePackage{popupmenu}[2020/07/26]}\expandafter
21 \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.

```
22 \newcommand{\ytvIdPresets}[1]{\def\yt@vIdPresets{#1}}
23 \definecolor{webbrown}{rgb}{.6,0,0} % from the web package
24 \ytvIdPresets{\linktxtcolor{webbrown}}
```

Here is a convenience command. This definition has since been made in insdljs. 25 \providecommand{\URI}[1]{/S/URI/URI(#1)}

```
26 \def\vtNF{false}
          27 \def\ytURL{https://www.youtube.com}
  \forall t d* [\langle opts \rangle] \{\langle tviD \rangle\} \{\langle text \rangle\} The \forall t video is link which when pressed plays the video
          whose Video Id is \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.
          28 \def\ytvIdParams#1{\def\@rgi{#1}\ifx\@rgi\@empty
               \let\ytvIdP@rams\@empty\else\def\ytvIdP@rams{#1}\fi}
          30 \let\ytvIdP@rams\@empty
          31 \newcommand{\ytvId}{\@ifstar{\def\yt@ask{*}\yt@@vId}}
               {\let\yt@ask\@empty\yt@@vId}}
          33 \newcommand{\yt@@vId}[3][]{\begingroup
               \ifx\ytvIdP@rams\@empty\let\ques\@empty\else
          34
                 \ifx\yt@ask\@empty\def\ques{?}\else\def\ques{&}\fi
          35
               \fi
          36
               \ifx\yt@ask\@empty
          37
                 \def\yt@lnk@hash{embed/#2\ques\ytvIdP@rams}\else
          38
                 \def\yt@lnk@hash{watch?v=#2\ques\ytvIdP@rams}\fi
          39
               \setLink[\presets{\yt@vIdPresets}#1
          40
          41
                 \A{\URI{\ytURL/\yt@lnk@hash}}]{#3}\endgroup
          42 }
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.
          43 \newcommand{\ytvIdML}{\@ifstar{\def\yt@ask{*}\yt@@vIdML}
               {\let\yt@ask\@empty\yt@@vIdML}}
          45 \newcommand{\yt@@vIdML}[3][]{\begingroup
               \ifx\ytvIdP@rams\@empty\let\ques\@empty\else
          46
                 47
          48
               \ifx\yt@ask\@empty
          49
                 \def\yt@lnk@hash{embed/#2\ques\ytvIdP@rams}\else
          50
                 \def\yt@lnk@hash{watch?v=#2\ques\ytvIdP@rams}\fi
          51
               \mlsetLink[\presets{\yt@vIdPresets}#1
          52
                 \A{\URI{\ytURL/\yt@lnk@hash}}]{#3}\endgroup
          53
          54 }
 \t \in \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 flexibil-
          ity.
```

\yturl Define \yturl to expand to the YouTube web site.

- - 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}.

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*{ $\langle ytvID \rangle$ }{ $\langle text \rangle$ }.

• $\t \sum_{\ensuremath{\colored}} {\langle spec \rangle} } {\langle text \rangle}$

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

Note: listType=search is deprecated and will no longer be supported as of 15 November, 2020.

```
\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.

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

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

Note: listType=search is deprecated and will no longer be supported as of 15 November, 2020.

```
\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{\(\lame\)}}{\(\lame\)}}
 Such a link displays the channel \(\lame\). 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
```

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= $\langle 0 | 0 \rangle$
- playlist= $\langle list \rangle$
- listType=search&list=\langle query \rangle
 Note: listType=search is deprecated and will no longer be supported as
 of 15 November, 2020.

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

55 \newif\ifytwatch \ytwatchfalse

The \ytLink command. Before getting to \ytLink and \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.

```
56 \def\yt@@parse{\let\ytspec\@empty\yt@parse}
57 \def\yt@parse{\@ifnextchar\@nil{\@gobble}{\yt@parsei}}
58 \def\yt@parsei{\@ifnextchar\watchId{% check for \watchId
   \ytwatchtrue\yt@parse@watch}{\yt@parseii}}
60 \def\yt@parse@watch\watchId#1{\g@addto@macro
  \ytspec{\watchId{#1}}\yt@parse}
62 \def\yt@parseii{\@ifnextchar\embedId{% check for \embedId
63 \yt@parse@embedId}{\yt@parseiii}}
64 \def\yt@parse@embedId\embedId#1{\g@addto@macro
65 \ytspec{\embedId{#1}}\yt@parse}
66 \def\yt@parseiii{\@ifnextchar\embed{% check for \embed
  \yt@parse@embed}{\yt@parseiv}}
68 \def\yt@parse@embed\embed#1{\g@addto@macro
    \ytspec{\embed{#1}}\yt@parse}
70 \def\yt@parseiv{\@ifnextchar\params{% check for \params
    \yt@parse@params}{\yt@parsev}}
72 \def\yt@parse@params\params#1{\ifytwatch
```

```
\g@addto@macro\ytspec{&#1}\else
                                        \g@addto@macro\ytspec{?#1}\fi
                            74
                                       \yt@parse}
                            If we get this far, \langle spec \rangle is raw, has none of the helper commands. So we just
                            insert the entire argument into \ytspec.
                            76 \def\yt@parsev#1\@nil{\g@addto@macro\ytspec{#1}}
                            All preliminaries done, we define \ytLink
                            77 \newcommand{\ytLink}[3][]{\begingroup
                            78
                                        \def\embedId##1{embed/##1}%
                            79
                                        \def\params##1{##1}\def\embed##1{embed?##1}%
                                       \def\watchId##1{watch?v=##1}\def\channel##1{c/##1}%
                            80
                                       \def\search##1{results?search_query=##1}%
                            81
                                       \def\user##1{user/##1}%
                            82
                            83
                                        \yt@@parse#2\@nil % returns arg in \ytspec
                            84
                                        \def\URLArg{\ytURL/\ytspec}%
                            85
                                        \setLink[\presets{\yt@vIdPresets}#1\A{\URI{\URLArg}}
                            86
                                       ]{#3}\endgroup
                            87 }
\ is the multi-line version of \ It requires a
                            dvips -> distiller workflow as well as the aeb_mlink package.
                            88 \newcommand{\ytLinkML}[3][]{\begingroup
                                        \def\embedId##1{embed/##1}%
                            89
                                        \label{lembed} $$ \end{area} $$ \operatorname{l}{\#1}\def\end{area} $$ \end{area} $
                            90
                                        91
                                       \def\search##1{results?search_query=##1}%
                            92
                                       \def\user##1{user/##1}%
                                       \yt@@parse#2\@nil % returns arg in \ytspec
                            95
                                       \def\URLArg{\ytURL/\ytspec}%
                                        \mlsetLink[\presets{\yt@vIdPresets}#1
                            96
                                             \A{\URI{\URLArg}}
                            97
                            98
                                       ]{#3}\endgroup
                            99 }
```

2.1.2 Using a Combobox

All commands associate with a combo box play list.

 $\label{list} $$ \left(\begin{array}{c} \operatorname{opts} \right) \left(\begin{array}{c} \operatorname{ane} \right) \left(\begin{array}{c} \operatorname{dot} \right) \left(\begin{array}{c} \operatorname{ht} \right) \right) $$ The \ytComboList command 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
```

```
Now we have the code for \ytComboList
                    100 \newcommand{\ytComboList}[4][]{%
                         \verb|\comboBox[\Ff{\FfCommitOnSelChange}\DV{\yt0pl0def}\V{\yt0pl0def}|
                    101
                    102
                            \presets{\yt@ComboListPresets}#1]{ytSelect#2}
                    103
                         {#3}{#4}{*\yt@pl@pl}% 2020/07/22 v0.4
                    104 }
        \t \ A button to play the selection made in the combo
                     box. The caption of the push button is determined by the command \ytStrPlay.
                     The parameters for \ytComboBtn are,
                       (opts): 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
                    105 \newcommand{\ytStrPLAY}{PLAY}
                    106 \newcommand{\ytComboBtn}[4][]{%
                          \pushButton[\TU{Click to play}\CA{\ytStrPLAY}
                    107
                            \presets{\yt@ComboBtnPresets}#1
                    108
                            \A{\JS{var f=this.getField("ytSelect#2");\r
                    109
                           var ytID=f.value;\r
                    110
                           var i=f.currentValueIndices;\r
                    111
                    112
                           var ytFV=f.getItemAt(i,false);\r
                           var i=ytFV.indexOf("*");\r
                    113
                           if ( i == -1 )\r\t
                    114
                             app.launchURL("\ytURL/embed/"+ytID,\ytNF);\r
                    115
                    116
                              app.launchURL("\ytURL/watch?v="+ytID,\ytNF);
                    117
                         }}]{ytSelectBtn#2}{#3}{#4}%
                    118
                    119 }
        \t \int ytPlayList{\langle ytvID\rangle} {\langle cmd\rangle} This command is executed before \t vtComboList to set the ini-
                     tial/default value (\langle ytvID \rangle) of the combo box and the play list (\langle tcmd \rangle). Here
                     (\cmd) is a command defined by the \declarePlayList command. Use the
                     \ytPlayList to pass the play list to the next combo box.
                    120 \newcommand{\ytPlayList}{\begingroup\@makeother\_\@makeother\'
                            \ytPlayList@i}
                    122 \def\ytPlayList@i#1#2{\gdef\yt@pl@def{#1}\xdef\yt@pl@pl{#2}\endgroup}
\t V-pairs for \t ComboList.
                    123 \newcommand{\ytComboListPresets}[1]{\def\yt@ComboListPresets{#1}}
                    124 \let\yt@ComboListPresets\@empty
\t V-pairs for \t ComboBtn.
                    125 \newcommand{\ytComboBtnPresets}[1]{\def\yt@ComboBtnPresets{#1}}
                    126 \let\yt@ComboBtnPresets\@empty
```

 $\langle ht \rangle$: The height of the combo box

\declarePlayList

A video ID may contain characters IAT_EX 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.

```
\label{eq:lambda} $$ \ \ \left( \c Md \right) {\ \c Md} {\c Md} {\ \c Md} {\ \c Md} {\ \c Md} {\ \c Md} {\c Md} {\c Md} {\c
```

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}

```
128 \newcommand{\declarePlayList}[1]{\bgroup
     \Hy@unicodefalse
129
     \let\pl@yList\@empty
130
131
     \ifpdfmarkup
       \def\Esc{\eqbs}\else\def\Esc{}\fi
132
     133
     \@makeother\_\@makeother\-
134
135
     \yt@declarePlayList{#1}%
136 }
137 \def\yt@declarePlayList#1#2{%
     \yt@declarePlayList@i#2\@nil\relax\relax
138
     \toks@=\expandafter{\pl@yList}\relax
139
     \xdef#1{\pl@yList}\egroup
140
141 }
142 \def\yt@declarePlayList@i{\@ifnextchar\@nil
     {\expandafter\@gobbletwo\@gobble}
143
     {\yt@declarePlayList@ii}%
144
145 }
146 \def\yt@declarePlayList@ii\ytIdTitle#1#2{%
     \pdfstringdef\yt@PLTitle{#1}%
147
148
     \edef\y{[(#2)(\yt@PLTitle)]}%
     \expandafter\g@addto@macro\expandafter
```

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\rangle is a comma-delimited list of menu names defined by a popupmenu environment. The command needs to be in the preamble.

```
155 \def\ytPopupAllMenuData{// ltx4yt: Begin popup menu data^J}%
156 \let\ytMenuNames\@gobble
157 \newcommand{\ytUseMenus}[1]{\bgroup
     \ensuremath{\tt Qfor\yt\Qmenu:=\#1\do\{\%\)}
158
        \edef\x{\noexpand\g@addto@macro\noexpand
159
          \ytMenuNames{,"\yt@menu"}}\x
160
        \edef\x{\expandafter\noexpand\@nameuse{\yt@menu}}%
161
        \toks@=\expandafter{\x^^J}%
162
        \expandafter\g@addto@macro\expandafter
163
164
          \ytPopupAllMenuData\expandafter{\the\toks@}%
165
     }\g@addto@macro\ytPopupAllMenuData
        {// ltx4yt: End of popup menu data}%
166
167
     \egroup
168 }
169 \@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}
```

```
170 %\newcommand{\puIdTitle}[2]{\item{title={#1},%
               171 % return={[\itemindex,'#2']}}}
               172 \newcommand{\puIdTitle}[2]{\Hy@unicodefalse\pdfstringdef\x@YT{#1}%
                     \edef\y@YT{\noexpand\item{title={\x@YT},%
                     return={[\noexpand\itemindex,'#2']}}\y@YT}
                Some convenience commands for setting up a push button to display the popup-
                menu on rollover.
               175 \def\ytpubtnCnt{0}
                176 \newcommand{\ytPopupBtn}[4][]{\bgroup
                     \@tempcnta\ytpubtnCnt\relax
               177
               178
                     \advance\@tempcnta\@ne
               179
                     \xdef\ytpubtnCnt{\the\@tempcnta}%
                     \pushButton[\cmd{\pmpvCAOff}\CA{YT Menu}
               180
               181
                     \textColor{0 0 1}\W1\BC{}\textSize{0}
                        \H{N}\S{S}\presets{\yt@PopupPresets}#1
               182
                        \AAmouseenter{ytPopupMenu("#2");} % dps
               183
                       ]{ytPopup\ytpubtnCnt}{#3}{#4}\egroup
               184
               185 }
               186 \newcommand{\ytPopupPresets}[1]{\def\yt@PopupPresets{#1}}
               187 \let\yt@PopupPresets\@empty
               188 (/pujs)
                189 (*package)
                2.2
                        Search YouTube interactively
\t \operatorname{UnputQuery}[\langle opts \rangle] \{\langle ud \rangle\} \{\langle ht \rangle\}  Provides a text field to enter a query string.
                190 \newcommand{\ytInputQuery}[3][]{%
                     \textField[\TU{Enter a query text string}#1]{ytSearchTxt}{#2}{#3}}
    \ytSearch[\langle opts \rangle] \{\langle ud \rangle\} \{\langle ht \rangle\} A push button what will search YouTube based on the query
                string. Note: listType=search is deprecated and will no longer be supported as
                of 15 November, 2020.
               192 \newcommand{\ytSearch}[3][]{%
                     \pushButton[\CA{Search}#1\AAmouseup{%
               193
                       var f=this.getField("ytSearchTxt");\r
               194
                       var v=f.value;\r
               195
                       if ((v=v.replace(/\string\s,g,"+")) != "")\r
               196
                          app.launchURL("\ytURL/results?search_query="+v);
               197
                     }]{ytSearchBtn}{#2}{#3}}
\ytClearQuery[\langle opts \rangle]{\langle wd \rangle}{\langle ht \rangle} A button to clear the query string.
               199 \newcommand{\ytClearQuery}[3][]{%
                     \pushButton[\CA{Clear}#1
               200
               201
                        \AAmouseup{this.resetForm("ytSearchTxt");}
                     ]{ytSearchClr}{#2}{#3}%
               202
               203 }
```

Note that we must protect the double quote.

```
204 \langle /\mathsf{package} \rangle
205 \langle *\mathsf{pujs} \rangle
```

2.3 Document JavaScript

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

```
206 \geq 105
207 \begin{newsegment}{ltx4yt: %
208 Popup Menu Data and JavaScript support functions}
209 var YTdebug=false;
210 var aYTLastChoice=new Array;
211 var bYTLastChoice=false;
212 \ytPopupAllMenuData
213 var aChoice; // make local
214 function ytProcessMenu(cMenu) { // aMenu->cMenu now a string
     var aMenu=eval(cMenu);
     var cChoice = app.popUpMenuEx.apply( app, aMenu );
216
     ytProcessMenu.cChoice=cChoice;
217
     if ( cChoice != null ) {
218
       aChoice=eval(cChoice);
219
       if (aChoice[1]=="") return null;
220
221
       var thisChoice=aChoice[0];
       eval(cMenu+thisChoice).bMarked=true;
222
223
       if (!bYTLastChoice) {
         eval(cMenu+aChoice[0]).bMarked=true;
224
       } else {
225
     var structLoc=eval(aYTLastChoice[1])[0]
226
227
     eval(aYTLastChoice[0]+structLoc).bMarked=false;
228
         eval(cMenu+aChoice[0]).bMarked=true;
       }
229
230
      return aChoice;
     } else return null;
231
232 }
233 function ytPopupMenu(cMenu) { // cMenu now a string
234
     var aChoice=ytProcessMenu(cMenu);
     var cChoice=ytProcessMenu.cChoice;
235
236
     var aMenu=eval(cMenu);
     if (aChoice!=null) {
237
       var title=eval(cMenu+aChoice[0]).cName;
238
       var i=title.indexOf("*");
239
       ^{240}
241
       if (!bYTLastChoice) {
242
         if(YTdebug) %
243 console.println("launching url https://www.youtube.com/"+_hash);
         else app.launchURL("https://www.youtube.com/"+_hash,false);
244
         aYTLastChoice=[cMenu,cChoice];
245
         bYTLastChoice=true;
246
247
       } else {
```

```
248 var cLastMenu=eval(aYTLastChoice[1])[0]
          aYTLastChoice=[cMenu,cChoice];
249
250
          if (cLastMenu!=aChoice[0]) {
            if (YTdebug) \%
251
252 console.println("will launch url: https://www.youtube.com/"+_hash);
253
            else app.launchURL("https://www.youtube.com/"+_hash,false);
254
          } else {
255
            if (YTdebug) console.println("will NOT launch url");
            \ensuremath{//} choice is the same, uncheck this item
256
            eval(cMenu+aChoice[0]).bMarked=false;
257
            bYTLastChoice=false;
258
259
        }
260
     }
261
262 }
263 \end{newsegment}
264 \verb|\end{insDLJS*}|
265 \langle *pujs \rangle
266 (*package)
267 \yt@restoreCats
268 \langle /package \rangle
```

3 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	\ifytwatch
\! 14, 16 \@makeother 16, 120, 134	\InputIfFileExists
\@onlypreamble	\text{item} \tag{170, 173} \text{itemindex} \tag{171, 174}
\@rgi	(Toemindex 171, 174
!usepopup (option)	J
\ 120, 134	\JS 109
_ ,	
\mathbf{A}	L
\A 41, 53, 85, 97, 109	\linktxtcolor
\AAmouseenter 183	\lo@dpu 3, 7, 8, 19
\AAmouseup	\mathbf{M}
\AtEndOfPackage 8	\mlsetLink 52, 96
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4 Change History					
v0.1 (2020/07/17)	v0.4 (2020/07/22)				
General: Begin new package ltx4yt $\dots 1$					
v0.2 (2020/07/17)	\declarePlayList: Changed parsing of				
General: Commands to pass arguments to urls \dots 1	<pre>\declarePlayList to accomodate \pdfstringdef 8</pre>				

v0.5 (2020/07/24)	\ytvId: added \ytIdParams
General: Manage multiple menus 10	v1.0 (2021/06/08)
v0.6 (2020/07/25)	General: Modify search-type macro to conform
General: Final version before first publication 1	with new YouTube player parameters 1
v0.7 (2020/07/30)	\ytSearch: Replace embed? in search with
General: Corrected upload 1	results?search_query= 10
v0.8 (2020/08/01)	
Congrel: Added catcade protection	