
Action

```
RootDir = "C:\\drorbn\\AcademicPensieve";
OpenNotebooks = Notebooks[];
UpdatePDF[NotebookFilename_String] := (
  SplitName = StringSplit[NotebookFilename, {"\\", "/"}];
  PDFFilename = ToFileName[
    PDFDir = ToFileName[Append[Drop[SplitName, -1], "views"]],
    StringDrop[Last@SplitName, -2] <> "pdf"
  ];
  If[
    Or[
      FileType[PDFFilename] === None,
      AbsoluteTime[FileDate[PDFFilename]] < AbsoluteTime[FileDate[NotebookFilename]]
    ],
    Print["Exporting ", NotebookFilename, " into ", PDFFilename, " ..."];
    If[FileType[PDFDir] === None, CreateDirectory[PDFDir]];
    NotebookPrint[nb = NotebookOpen[NotebookFilename], PDFFilename];
    If[!MemberQ[OpenNotebooks, nb], NotebookClose[nb]],
    Print["Skipping ", NotebookFilename, "."]
  ]
);
UpdatePDF /@ FileNames["*.nb", {RootDir}, Infinity];
```

```

Skipping C:\drorbn\AcademicPensieve\2008-05\Chmutov.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\ConwayKinoshitaTerasaka.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\Homftimization.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\OneParameterY - Program.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\OneParameterY-Testing.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\P2N2P.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\RankForLowBraidIndex.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\WFormulaForAlexanderForKAL-080625.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\WFormulaForAlexander.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\WFormulaForAlexander-Recycling.nb.
Skipping C:\drorbn\AcademicPensieve\2008-06\YPar.nb.
Skipping C:\drorbn\AcademicPensieve\2008-07\AlexRelations.nb.
Skipping C:\drorbn\AcademicPensieve\2008-07\AlexTangles.nb.
Skipping C:\drorbn\AcademicPensieve\2008-07\CUMC problem on powers of 2 and 3.nb.
Skipping C:\drorbn\AcademicPensieve\2008-07\WAlexWithRandomIncidence.nb.
Skipping C:\drorbn\AcademicPensieve\2008-07\WFormulaForAlexander.nb.
Exporting C:\drorbn\AcademicPensieve\2008-09\AlexanderEulerSpaces.nb
  into C:\drorbn\AcademicPensieve\2008-09\views\AlexanderEulerSpaces.pdf ...
Skipping C:\drorbn\AcademicPensieve\2008-09\AlexanderForTangles.nb.
Exporting C:\drorbn\AcademicPensieve\MathematicaMake.nb
  into C:\drorbn\AcademicPensieve\views\MathematicaMake.pdf ...

```

Delete all PDF files

```

False && DeleteFile[
  (StringDrop[#, -2] <> "pdf") & /@ FileNames["*.nb", {RootDir}, Infinity]
]
False

```

Experiments

```

Export["C:\\drorbn\\AcademicPensieve\\MathematicaMake.html",
  nb = NotebookOpen["C:\\drorbn\\AcademicPensieve\\MathematicaMake.nb"],
  "MathOutput" -> "DisplayForm"]

```

Information::basic:

?Name gives information on Name, ?Ab* on all symbols starting with Ab. ??Name gives more information. >>

C:\drorbn\AcademicPensieve\MathematicaMake.html

FileType [PDFFilename]

None

? *Directory*

▼ System`

CopyDirectory	ParentDirectory	\$InstallationDirectory
CreateDirectory	RenameDirectory	\$LaunchDirectory
DeleteDirectory	ResetDirectory	\$PreferencesDirectory
Directory	SetDirectory	\$RootDirectory
DirectoryName	\$AddOnsDirectory	\$TopDirectory
DirectoryStack	\$BaseDirectory	\$UserAddOnsDirectory
HomeDirectory	\$HomeDirectory	\$UserBaseDirectory
NotebookDirectory	\$InitialDirectory	\$UserDocumentsDirectory

▼ DocumentationSearch`

AddDocumentationDirectory

▼ PacletManager`

PacletDirectoryAdd	PacletDirectoryRemove
--------------------	-----------------------

▼ ResourceLocator`

ApplicationDataDirectory	ApplicationDirectoryAdd
ApplicationDataUserDirectory	CreateDataDirectory

CreateDirectory["dir"] creates a directory with name *dir*.

CreateDirectory[] creates a directory in the default area for temporary directories on your computer system. >>

Component Object Model Experiments

Following <http://reference.wolfram.com/mathematica/NETLink/tutorial/CallingNETFromMathematica.html>

PDF Creator

```
<< NETLink`
```

```
InstallNET []
```

```
LinkObject [C:\Program Files\Wolfram  
Research\Mathematica\6.0\SystemFiles\Links\NETLink\InstallableNET.exe, 8, 7]
```

```
pc = CreateCOMObject ["PDFCreator.clsPDFCreator"]
```

```
« NETObject [COMInterface [PDFCreator._clsPDFCreator]] »
```

```
opts = pc@cOptions
```

```
« NETObject [COMInterface [PDFCreator._clsPDFCreatorOptions]] »
```

```

opts@AutosaveFilename = "test"

test

opts@AutosaveFilename
Etingof - Kazhdan.pdf

pc@cSaveOptions [opts]

pc@cStart ["/NoProcessingAtStartup "]

False

```

OneNote

Following <http://msdn.microsoft.com/en-us/library/ms788684.aspx>

```

<< NETLink`
InstallNET []

LinkObject [C:\Program Files\Wolfram
  Research\Mathematica\6.0\SystemFiles\Links\NETLink\InstallableNET.exe, 5, 5]

on = CreateCOMObject ["OneNote.Application"]

« NETObject [Microsoft.Office.Interop.OneNote.ApplicationClass] »

If [! NETObjectQ [on], $Failed,
  on@OpenHierarchy [
    "C:\\drorbn\\AcademicPensieve\\PublicNotebook\\2008-11.one",
    "",
    doc
  ];
  on@Publish [
    doc,
    "C:\\drorbn\\AcademicPensieve\\PublicNotebook\\Annotations\\views\\EtingofKazhdan.pdf",
    3,
    ""
  ]
]

on@OpenHierarchy [
  "C:\\drorbn\\AcademicPensieve\\PublicNotebook\\2008-11.one",
  "",
  doc
]; doc

{23A3FFAB-1275-4C77-A576-2EF15BD2413C}{1}{B0}

on@GetPageContent [doc, content]; content

```

```
<?xml version="1.0"?>
```

```
<one:Section xmlns:one="http://schemas.microsoft.com/office/onenote/2007/onenote"
  name="2008-11" ID="{23A3FFAB-1275-4C77-A576-2EF15BD2413C}{1}{B0}"
  path="C:\drorbn\AcademicPensieve\PublicNotebook\2008-11.one"
  lastModifiedTime="2008-11-21T02:39:25.000Z" color="#BA7575"><one:Page
  ID="{059796F7-6C56-463B-BB09-D6D9780B74B3}{1}{B0}"
  name="GPV Asides" dateTime="2008-11-01T16:20:18.000Z"
  lastModifiedTime="2008-11-06T16:08:40.000Z"/><one:Page
  ID="{FA768E44-06B3-4167-BCD7-E5AEFBB5D310}{1}{B0}"
  name="Arrow Diagrams" dateTime="2008-11-03T15:42:25.000Z"
  lastModifiedTime="2008-11-03T15:58:20.000Z"/><one:Page
  ID="{079450AB-FA5D-4093-B8E7-4E32467FCDBA}{1}{B0}"
  name="Unshielding" dateTime="2008-11-03T18:17:46.000Z"
  lastModifiedTime="2008-11-09T21:32:11.000Z"/><one:Page
  ID="{3ADE6231-4146-4055-8C27-C50D62FD9444}{1}{B0}"
  name="KV and Wheeling" dateTime="2008-11-05T16:21:32.000Z"
  lastModifiedTime="2008-11-14T19:39:29.000Z"/><one:Page
  ID="{28644363-A916-4B91-8B48-1E8C4AD9FBA0}{1}{B0}" name="What
  the issue seems to be" dateTime="2008-11-14T19:49:51.000Z"
  lastModifiedTime="2008-11-17T18:58:19.000Z" isSubPage="true"/><one:Page
  ID="{DFA24686-C0C0-4BA2-809D-B5A3B1614426}{1}{B0}" name="Bergeron: Combinatorial
  hopf algebras and towers of algebras" dateTime="2008-11-05T21:12:32.000Z"
  lastModifiedTime="2008-11-05T22:02:06.000Z"/><one:Page
  ID="{0E52B3CD-6ED0-4231-9A80-AB94506A6A02}{1}{B0}" name="The
  Cost of Gliding" dateTime="2008-11-09T21:34:26.000Z"
  lastModifiedTime="2008-11-10T02:44:49.000Z"/><one:Page
  ID="{72BFB537-A0CE-4413-9B88-24D63F4C8028}{1}{B0}" name="Geodesics
  in Hyperbolic Geometry" dateTime="2008-11-12T02:51:26.000Z"
  lastModifiedTime="2008-11-12T12:33:01.000Z" isSubPage="true"/><one:Page
  ID="{9397F26E-8FC6-4C5D-81E4-369BFCDBF28F}{1}{B0}"
  name="Meinrenken" dateTime="2008-11-10T15:09:49.000Z"
  lastModifiedTime="2008-11-10T22:33:58.000Z"/><one:Page
  ID="{ADB76560-C1DE-4F58-AAFE-0836EEA3F377}{1}{B0}" name="Guth on
  Sobolev & Loomis-Whitney" dateTime="2008-11-12T18:12:39.000Z"
  lastModifiedTime="2008-11-12T21:46:52.000Z"/><one:Page
  ID="{ADA72211-777C-4A55-9A64-6002E86250E4}{1}{B0}"
  name="Wilson's Theorem" dateTime="2008-11-12T21:11:23.000Z"
  lastModifiedTime="2008-11-12T21:30:44.000Z"/><one:Page
  ID="{8B2E600E-E27B-4456-9B69-D223765D69EF}{1}{B0}"
  name="wAKT" dateTime="2008-10-21T15:26:05.000Z"
  lastModifiedTime="2008-11-13T03:00:38.000Z"/><one:Page
  ID="{41AA0EEB-DA49-43DB-B03C-22EF8508A5D3}{1}{B0}"
  name="Garside Thoughts" dateTime="2008-11-13T20:02:35.000Z"
  lastModifiedTime="2008-11-14T02:39:37.000Z"/><one:Page
```

```

ID="{D898E8DA-A637-4FCF-885B-624ABA63F6DF}{1}{B0}"
name="Injectivity" dateTime="2008-11-14T21:12:14.000Z"
lastModifiedTime="2008-11-20T00:30:27.000Z"/><one:Page
ID="{C5E29205-7D40-4A0D-9D6F-0E37880BEF8B}{1}{B0}" name="Free in wB"
dateTime="2008-11-21T00:50:33.000Z" lastModifiedTime="2008-11-21T02:39:25.000Z"
isSubPage="true"/><one:Page ID="{A13352A2-0312-4F39-ADDA-6109070EB225}{1}{B0}"
name="Random" dateTime="2008-11-16T23:03:22.000Z"
lastModifiedTime="2008-11-17T20:04:54.000Z"/><one:Page
ID="{86FD7ADA-4EB7-4BF7-B536-E1DFC98E771B}{1}{B0}"
name="CMO 2008" dateTime="2008-07-29T00:07:33.000Z"
lastModifiedTime="2008-11-19T22:27:33.000Z"/><one:Page
ID="{2C2DBCEB-B999-4BA3-94D8-CDF30D8F0911}{1}{B0}"
name="CMO 2007" dateTime="2008-11-19T22:29:45.000Z"
lastModifiedTime="2008-11-19T22:30:09.000Z"/></one:Section>

```

```
on@GetHierarchy[doc, 4, hier]; hier
```

```
<?xml version="1.0"?>
```

```

<one:Section xmlns:one="http://schemas.microsoft.com/office/onenote/2007/onenote"
name="Etingof - Kazhdan" ID="{60449E42-F3CD-46A5-8944-021A8F78CCBC}{1}{B0}"
path="C:\drorbn\AcademicPensieve\PublicNotebook\Annotations\Etingof
- Kazhdan.one" lastModifiedTime="2008-11-22T16:48:42.000Z"
color="#9595AA"><one:Page ID="{58A1D1C9-4DFF-4E92-B3B1-E0A873968FC0}{1}{B0}"
name="Etingof-Kazhdan QLB-I" dateTime="2008-04-09T00:13:41.000Z"
lastModifiedTime="2008-11-22T16:48:42.000Z"/></one:Section>

```

```
on@NavigateTo[doc, "{2C2DBCEB-B999-4BA3-94D8-CDF30D8F0911}{1}{B0}"]
```

```
on@NavigateTo[doc, doc]
```