
Component Object Model Experiments

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[];
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,
  ""
]
]

```

NET::netexcpn: A .NET exception occurred:

System.Runtime.InteropServices.COMException (0x8004201A): Exception from HRESULT: 0x8004201A
at Microsoft.Office.Interop.OneNote.ApplicationClass.Publish(String bstrHierarchyID, String
bstrTargetFilePath, PublishFormat pfPublishFormat, String bstrCLSIDofExporter).

\$Failed

```

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"?>
```

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  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}"
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  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}"
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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"
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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"
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lastModifiedTime="2008-11-17T20:04:54.000Z"/><one:Page
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name="CMO 2008" dateTime="2008-07-29T00:07:33.000Z"
lastModifiedTime="2008-11-19T22:27:33.000Z"/><one:Page
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name="CMO 2007" dateTime="2008-11-19T22:29:45.000Z"
lastModifiedTime="2008-11-19T22:30:09.000Z" isCurrentlyViewed="true"/></one:Section>

```

```

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  "{86FD7ADA-4EB7-4BF7-B536-E1DFC98E771B}" {1} {B0}",
  "C:\drorbn\AcademicPensieve\PublicNotebook\Annotations\views\EtingofKazhdan.pdf",
  3,
  ""
]

```

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

```
<?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"
isCurrentlyViewed="true"><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
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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"
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lastModifiedTime="2008-11-10T22:33:58.000Z"/><one:Page
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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"
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ID="{8B2E600E-E27B-4456-9B69-D223765D69EF}{1}{B0}"
name="wAKT" dateTime="2008-10-21T15:26:05.000Z"
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ID="{41AA0EEB-DA49-43DB-B03C-22EF8508A5D3}{1}{B0}"
name="Garside Thoughts" dateTime="2008-11-13T20:02:35.000Z"
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ID="{D898E8DA-A637-4FCF-885B-624ABA63F6DF}{1}{B0}"
name="Injectivity" dateTime="2008-11-14T21:12:14.000Z"
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ID="{C5E29205-7D40-4A0D-9D6F-0E37880BEF8B}{1}{B0}" name="Free in wB"
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ID="{86FD7ADA-4EB7-4BF7-B536-E1DFC98E771B}{1}{B0}"
name="CMO 2008" dateTime="2008-07-29T00:07:33.000Z"
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name="CMO 2007" dateTime="2008-11-19T22:29:45.000Z"
lastModifiedTime="2008-11-19T22:30:09.000Z" isCurrentlyViewed="true"/></one:Section>

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on@NavigateTo[doc, doc]

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```

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into C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\ ...
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```
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C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\pAHandout.pdf,
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C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\Copenhagen Talk.pdf,
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  Kauffman Bracket and the Jones Polynomial.pdf,
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C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\wEK Thoughts.pdf,
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C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\Drinfel'd's Lemma.pdf,
C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\The solvable Case.pdf,
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C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\RDDL Thoughts.pdf,
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C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-10\KV for Measures.pdf}
```

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AbsoluteTime[DatePlus[
```

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```

```
]
```

```
]
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3 435 956 563
```

```
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  "lastModifiedTime" → "2008-11-19T22:30:09.000Z"}, PDFDirectory]
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```
Writing C:\drorbn\AcademicPensieve\PublicNotebook\views\2008-11\CMO 2007.pdf ...
```

```
% // FullForm
```

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  Rule["lastModifiedTime", "2008-11-19T22:30:09.000Z"]]
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```

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```

```
DateList["2008-11-19T22:29:45.000Z"]
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{2008, 11, 19, 22, 29, 45.}
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PageDescriptors

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  dateTime → 2008-11-05T16:21:32.000Z, lastModifiedTime → 2008-11-14T19:39:29.000Z},
{ID → {28644363-A916-4B91-8B48-1E8C4AD9FBA0}{1}{B0}, name → What the issue seems to be,
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  dateTime → 2008-11-05T21:12:32.000Z, lastModifiedTime → 2008-11-05T22:02:06.000Z},
{ID → {0E52B3CD-6ED0-4231-9A80-AB94506A6A02}{1}{B0}, name → The Cost of Gliding,
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{ID → {9397F26E-8FC6-4C5D-81E4-369BFCDBF28F}{1}{B0}, name → Meinrenken,
  dateTime → 2008-11-10T15:09:49.000Z, lastModifiedTime → 2008-11-10T22:33:58.000Z},
{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},
{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},
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  dateTime → 2008-10-21T15:26:05.000Z, lastModifiedTime → 2008-11-13T03:00:38.000Z},
{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},
{ID → {D898E8DA-A637-4FCF-885B-624ABA63F6DF}{1}{B0}, name → Injectivity,
  dateTime → 2008-11-14T21:12:14.000Z, lastModifiedTime → 2008-11-20T00:30:27.000Z},
{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}, {ID → {A13352A2-0312-4F39-ADDA-6109070EB225}{1}{B0},
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  lastModifiedTime → 2008-11-23T05:14:10.000Z, isCurrentlyViewed → true},
{ID → {86FD7ADA-4EB7-4BF7-B536-E1DFC98E771B}{1}{B0}, name → CMO 2008,
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{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}}
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\$TimeZone

-5.