

## Clear

```
In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Talks\\Waco-2203"];
DeleteFile /@ {"Rho1.tex"};
```

## Run

```
In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Talks\\Groningen-220620"];
$PageWidth = 4.2;
nb2tex["Rho1", "Rho1", PDFFolder -> "Snips/Rho1", PDFWidth -> $PageWidth];
nb2tex["Invariance", "Invariance",
  PDFFolder -> "Snips/Invariance", PDFWidth -> $PageWidth];
Run@"C:\\Program Files\\MiKTeX 2.9\\miktex\\bin\\x64\\pdflatex.exe" Cars.tex";
Run@"C:\\Program Files\\MiKTeX 2.9\\miktex\\bin\\x64\\pdflatex.exe" Cars.tex"
```

```
Out[ ]:= 0
```

## Make

```
In[ ]:= Make::usage =
  "Make[targetes, sources, Hold[action]] makes a target, or a list of targets, given
  sources, or a list of sources, in the style of the unix 'make' command.";
Make[target_String, sources_, action_Hold] :=
  Make[Evaluate@{target}, sources, action];
Make[targetes_, source_String, action__Hold] :=
  Make[targetes, Evaluate@{source}, action];
Make[targetes_List, sources_List, action_Hold] := Module[{},
  If[
    (And @@ ((FileType[#] != None) & /@ sources)) &&
    Or[
      Or @@ ((FileType[#] === None) & /@ targetes),
      Min[AbsoluteTime[FileDate[#]] & /@ targetes] <
      Max[AbsoluteTime[FileDate[#]] & /@ sources]
    ],
    Print["Making ", targetes, " ..."];
    ReleaseHold[action]
  ],
  ];
```

## nb2tex

As in <http://drorbn.net/AcademicPensieve/Projects/nb2tex/>.

```
In[ ]:= SetOptions[$FrontEndSession, PrintingStyleEnvironment -> "Working"];
nb2tex[nb_String, opts___Rule] := nb2tex[nb, nb, opts];
```

```
In[ ]:= nb2tex[nb_String, tex_String, opts___Rule] := Module[
  {notebook, PDFCounter = 0, lines, type, tag, pdfname, cell, c, c1,
   PDFFolder = PDFFolder /. {opts} /. PDFFolder -> nb
  },
  nb2tex$PDFWidth = PDFWidth /. {opts} /. PDFWidth -> 6.5;
  notebook = NotebookGet[NotebookOpen@FileNameJoin[{Directory[], nb <> ".nb"}]];
  If[FileType[PDFFolder] === None, CreateDirectory[PDFFolder]];
  DeleteFile/@FileNames["*.pdf", PDFFolder];
  lines = Table[
    type = cell[[2]];
    tag = CellTags /. Cases[cell, _Rule] /. CellTags -> "";
    Which[
      type == "Text" ^ tag == "tex", StringReplace[cell[[1]], {"'" -> "'", "\"" -> "\""}],
      StringMatchQ[tag, "pdf" ~~ ___], (
        pdfname = PDFFolder <> "/" <> ToString[++PDFCounter] <> ".pdf";
        Export[pdfname, Join[cell, Cell[PageWidth -> 80 nb2tex$PDFWidth / 0.75]]];
        c1 = "c:\\drorbn\\bin\\cpdf.exe -scale-page \"0.75 0.75\" " <>
          pdfname <> " -o " <> pdfname;
        Close@OpenRead["!" <> c1];
        StringReplace[
          "\\noindent\\nbpdfXXXType{pdfname}",
          {"XXX" -> StringDrop[tag, 3], "Type" -> type, "pdfname" -> pdfname}
        ]
      ),
    type == "Text" ^ tag == "exec", ToExpression[cell[[1]]; "",
    True, ""
  ],
  {cell, Cases[notebook, c_Cell /; Length[c] >= 2(*^FreeQ[c, _Cell, {1,∞}]*)}, ∞]}
];
lines = StringJoin@@Riffle[DeleteCases[lines, ""], "\n\n"];
WriteString[tex <> ".tex", lines]; Close[tex <> ".tex"]; ]
```