

## Clear

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Talks\\ICERM-2305"];  
DeleteFile /@ {"FirstKHProgram.tex"};
```

## Run

```
In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Classes\\23-FastComputations"];  
$PageWidth = 4.5;  
nb2tex["FirstKHProgram", "FirstKHProgram",  
  PDFFolder → "Snips/FirstKHProgram", PDFWidth → $PageWidth];  
Run@  
  "\\C:\\Program Files\\MiKTeX 2.9\\miktex\\bin\\x64\\pdflatex.exe" FirstKHProgram.tex";  
Run@  
  "\\C:\\Program Files\\MiKTeX 2.9\\miktex\\bin\\x64\\pdflatex.exe" FirstKHProgram.tex"  
Out[ ]:=  
0
```

## 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, type, tag, pdfname, cells, cell, c, cl, texfiles = {}, TeXOut,
    PDFFolder = PDFFolder /. {opts} /. PDFFolder → nb
  },
  nb2tex$TeXFileName = tex <> ".tex";
  nb2tex$PDFWidth = PDFWidth /. {opts} /. PDFWidth → 6.5;
  TeXOut[s_String] := (texfiles = texfiles ∪ {nb2tex$TeXFileName};
    WriteString[nb2tex$TeXFileName, s]);
  notebook = NotebookGet[NotebookOpen@FileNameJoin[{Directory[], nb <> ".nb"}]];
  If[FileType[PDFFolder] === None, CreateDirectory[PDFFolder]];
  DeleteFile /@ FileNames["*.pdf", PDFFolder];
  cells = Cases[notebook, c_Cell /; Length[c] ≥ 2, ∞];
  Do[
    type = cell[[2]];
    tag = CellTags /. Cases[cell, _Rule] /. CellTags → "";
    Which[
      type == "Text" ^ tag == "tex", TeXOut[
        StringReplace[cell[[1]], {"'" → "'", "\"" → "\""}] <> "\n\n",
        StringMatchQ[tag, "pdf" ~~ ___], (
          pdfname = PDFFolder <> "/" <> ToString[++PDFCounter] <> ".pdf";
          Export[pdfname, Join[cell, Cell[PageWidth → 80 nb2tex$PDFWidth / 0.75]]];
          cl = "c:\\drorbn\\bin\\cpdf.exe -scale-page \"0.75 0.75\" " <>
            pdfname <> " -o " <> pdfname;
          Close@OpenRead["!" <> cl];
          TeXOut[StringReplace[
            "\\noindent\\nbpdfXXXType{pdfname}\\n",
            {"XXX" → StringDrop[tag, 3], "Type" → type, "pdfname" → pdfname}
          ]]
        ),
      type == "Input" ^ tag == "exec", ToExpression[cell[[1]],
        True, Null
      ],
    {cell, cells}
  ];
  Close /@ texfiles;
]

```