

Pensieve header: A program for exporting tagged cells, continues pensieve://2013-03/.

Testing

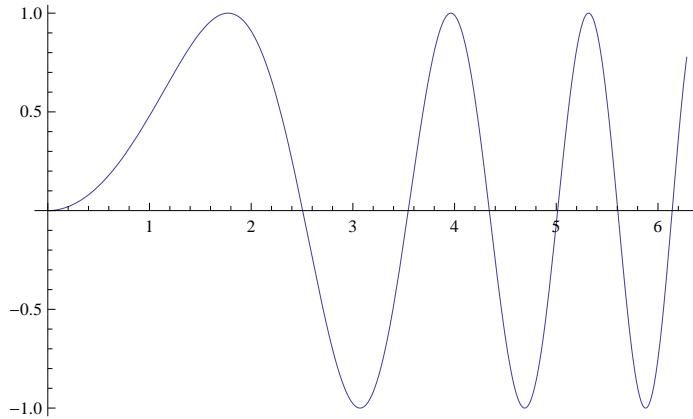
CellExportTestTag

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2013-05"];
Print[Date[]];
Module[{graph},
  graph = Plot[Sin[ $\frac{\text{theta}^2}{2}$ ], {theta, 0, 2  $\pi$ )];
  Print[graph]
];
Print[Solve[a x2 + b y + c == 0, x]];
CellExport["CellExportTestTag", ExportFormat -> ".pdf"];
CellExport["CellExportTestTag", ExportFormat -> ".png"]
(* CellExport["CellExportTestTag", ExportFormat -> ".eps"] *)
```

CellExportTestTag

```
{2013, 5, 17, 19, 44, 47.0134536}
```

CellExportTestTag



CellExportTestTag

$$\left\{ \left\{ x \rightarrow -\frac{\sqrt{-c - b y}}{\sqrt{a}} \right\}, \left\{ x \rightarrow \frac{\sqrt{-c - b y}}{\sqrt{a}} \right\} \right\}$$

CellExportTestTag

```
exporting CellExportTestTag into CellExportTestTag.pdf...
```

CellExportTestTag

```
exporting CellExportTestTag into CellExportTestTag.png...
```

CellExportTestTag

```
CellExportTestTag.png
```

Package

```

BeginPackage["CellExport`"];

CellExport; TagProperties; CellFilter;
ExportBaseFilename; ExportFormat; ExportOptions; Split;

Begin["Private`"];

styledefinitions = Notebook[{
  Cell[StyleData[StyleDefinitions → "Default.nb"]],
  Cell[StyleData[All, "Printout"], ShowSyntaxStyles → True]
}];

HackedExport[fname_String, rest___] := Module[{out},
  If[FileExtension[fname] != "png",
    Export[fname, rest],
    Export["HackedExportTemporary.gif", rest];
  out = Export[fname, Import["HackedExportTemporary.gif"]];
  DeleteFile["HackedExportTemporary.gif"];
  out
]
];

TagProperties[_] := {};
Options[CellExport] = {
  PageWidth → 6, CellFilter → Identity, ExportBaseFilename → Automatic,
  ExportFormat → ".pdf", ExportOptions → {}, Split → False
};

CellExport[tag_String, opts___Rule] := CellExport[
  NotebookGet[EvaluationNotebook[]],
  tag, opts
];

CellExport[nb_Notebook, tag_String] := CellExport[nb, tag, TagProperties[tag]];
CellExport[nb_Notebook, tag_String, OptionsPattern[]] := Module[
  {cells, cell, filename, format, enb},
  filename = OptionValue[ExportBaseFilename] /. Automatic → tag;
  format = OptionValue[ExportFormat];
  Print["exporting ", tag, " into ", filename <> format, "..."];
  cells = OptionValue[CellFilter][Cases[
    nb, c_Cell /; FreeQ[List@@c, Cell] && !FreeQ[c, CellTags → tag],
    Infinity
  ]];
  If[! OptionValue[Split],
    If[Length[cells] ≥ 1,
      If[Length[cells] == 1,
        cells = Append[First[cells], PageWidth → 72 OptionValue[PageWidth]],
        cells = Cell[CellGroup[cells], PageWidth → 72 OptionValue[PageWidth]]
      ];
    enb = Notebook[{cells}, StyleDefinitions → styledefinitions];
    HackedExport[

```

```
    filename <> format, enb,
    ImageResolution → 300,
    OptionValue[ExportOptions]
  ]
],
k = 0;
Table[
  ++k;
  enb = Notebook[{
    Append[cell, PageWidth → 72 OptionValue[PageWidth]],
    StyleDefinitions → styledefinitions
  }];
  HackedExport[
    filename <> "-" <> ToString[k] <> format,
    enb,
    ImageResolution → 300,
    OptionValue[ExportOptions]
  ],
  {cell, cells}
]
];

End[]; EndPackage[];
```