

Pensieve header: A program for exporting tagged cells. Continues pensieve://2013-01/, continued pensieve://Projects/WKO4/.

Failed attempt to improve eps/PDF to include syntax highlighting is at pensieve://2013-05/.

```

BeginPackage["CellExport`"];

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

Begin["Private`"];

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},
  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]]
      ];
    HackedExport[
      filename <> format, cells,
      ImageResolution → 300,

```

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

End[]; EndPackage[];
```