

Pensieve header: Make the snip files in Snips/.

```
(Alt) In[ ]:= (*MakeSnips["Engine-Dev"]*)
MakeSnips["Engine-Speedy"]
MakeSnips["Objects"]
MakeSnips["Benchmarking-QU"]
```

```
(Alt) Out[ ]:= {Snips/Engine-Speedy/Program-1.pdf,
Snips/Engine-Speedy/Program-2.pdf, Snips/Engine-Speedy/Program-3.pdf,
Snips/Engine-Speedy/Program-4.pdf, Snips/Engine-Speedy/Program-5.pdf,
Snips/Engine-Speedy/Program-6.pdf, Snips/Engine-Speedy/Program-7.pdf,
Snips/Engine-Speedy/Program-8.pdf, Snips/Engine-Speedy/Program-9.pdf,
Snips/Engine-Speedy/Program-10.pdf, Snips/Engine-Speedy/Program-11.pdf,
Snips/Engine-Speedy/Program-12.pdf, Snips/Engine-Speedy/Program-13.pdf,
Snips/Engine-Speedy/Program-14.pdf, Snips/Engine-Speedy/Program-15.pdf,
Snips/Engine-Speedy/Program-16.pdf, Snips/Engine-Speedy/Program-17.pdf,
Snips/Engine-Speedy/Program-18.pdf, Snips/Engine-Speedy/Program-19.pdf,
Snips/Engine-Speedy/Program-20.pdf, Snips/Engine-Speedy/Program-21.pdf,
Snips/Engine-Speedy/Program-22.pdf, Snips/Engine-Speedy/Program-23.pdf,
Snips/Engine-Speedy/Program-24.pdf, Snips/Engine-Speedy/Program-25.pdf,
Snips/Engine-Speedy/Program-26.pdf, Snips/Engine-Speedy/Program-27.pdf,
Snips/Engine-Speedy/Program-28.pdf, Snips/Engine-Speedy/Program-29.pdf,
Snips/Engine-Speedy/Program-30.pdf, Snips/Engine-Speedy/Program-31.pdf,
Snips/Engine-Speedy/Program-32.pdf, Snips/Engine-Speedy/Program-33.pdf}
```

```
(Alt) Out[ ]:= {Snips\Objects\Program-1.pdf, Snips\Objects\Program-2.pdf, Snips\Objects\Program-3.pdf,
Snips\Objects\Program-4.pdf, Snips\Objects\Program-5.pdf, Snips\Objects\Program-6.pdf,
Snips\Objects\Program-7.pdf, Snips\Objects\Program-8.pdf, Snips\Objects\Program-9.pdf,
Snips\Objects\Program-10.pdf, Snips\Objects\Program-11.pdf,
Snips\Objects\Program-12.pdf, Snips\Objects\Program-13.pdf,
Snips\Objects\Program-14.pdf, Snips\Objects\Program-15.pdf,
Snips\Objects\Program-16.pdf, Snips\Objects\Program-17.pdf,
Snips\Objects\Program-18.pdf, Snips\Objects\Program-19.pdf,
Snips\Objects\Program-20.pdf, Snips\Objects\Program-21.pdf}
```

```
(Alt) Out[ ]:= {Snips\Benchmarking-QU\Knot-1.pdf, Snips\Benchmarking-QU\Knot-2.pdf,
Snips\Benchmarking-QU\Knot-3.pdf, Snips\Benchmarking-QU\Header-1.pdf,
Snips\Benchmarking-QU\Profile-1.pdf, Snips\Benchmarking-QU\Profile-2.pdf}
```

## Prolog

```
(Alt) In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\SL2Portfolio2"];
Get["../..\\Talks\\Matemale-1804\\CellExport.m"];
BeginPackage["Snips`", {"CellExport`"}];
MakeSnips;
Begin["`private`"];
SetOptions[$FrontEndSession, PrintingStyleEnvironment -> "Working"];
```

“WinSort” from <https://mathematica.stackexchange.com/questions/10619/sort-strings-by-natural-ordering>:

*(Alt) In[ ]:=*

```
WinSort[names_List] := names[[Ordering[Characters[names]]]];
```

## Snips

*(Alt) In[ ]:=*

```
MakeSnips[nb_] := (
  If[FileType["Snips/" <> nb] === None, CreateDirectory["Snips/" <> nb]];
  If[FileType["Snips/" <> nb <> "/Verification.txt"] === None ∨
    AbsoluteTime@FileDate["Snips/" <> nb <> "/Verification.txt"] <
    AbsoluteTime@FileDate[nb <> ".nb"],
    If[Head[$FrontEnd] === FrontEndObject,
      SetOptions[CellExport, ExportFormat → ".pdf", Split → True,
        PageWidth → 7.12, ExportOptions → {ImageSize → Scaled[0.75]}],
      SetOptions[CellExport, ExportFormat → ".pdf", Split → True, PageWidth → 7.12]
    ];
  SourceNotebook = NotebookGet@NotebookOpen[Directory[] <> "/" <> nb <> ".nb"];
  DialogTags = {};
  tags = Cases[SourceNotebook, {CellTags → tag_} ⇒ tag, Infinity] // Union;
  files = Reap[Flatten[Table[
    Which[
      tag == "817",
      { (* this is only left here as a demo for how to make an exception *)
        Sow@CellExport[SourceNotebook, "817", {CellFilter → First,
          ExportBaseFilename → "Snips/" <> nb <> "/817-In"}],
        Sow@CellExport[SourceNotebook, "817", {CellFilter → Rest,
          ExportBaseFilename → "Snips/" <> nb <> "/817-Out",
          PageWidth → 5.5 * 0.24 / 0.16}]}
    ],
    MemberQ[DialogTags, tag], {
      Sow@CellExport[SourceNotebook, tag, {CellFilter → First,
        ExportBaseFilename → "Snips/" <> nb <> "/" <> tag <> "-In"}],
      Sow@CellExport[SourceNotebook, tag, {CellFilter → Rest,
        ExportBaseFilename → "Snips/" <> nb <> "/" <> tag <> "-Out"}]
    },
    True, Sow@CellExport[SourceNotebook,
      tag, ExportBaseFilename → "Snips/" <> nb <> "/" <> tag]
  ],
  {tag, tags}]]];
  PutAppend[DateString[], "Snips/" <> nb <> "/Verification.txt"];
  files = Flatten[files];
  DeleteFile /@ Complement[
    StringReplace["\\" → "/" ] /@ FileNames["Snips/" <> nb <> "/*.pdf"], files];
  WinSort@Union[files],
  (*Else*)
  WinSort@FileNames["Snips/" <> nb <> "/*.pdf"]
]
)
```

# Epilog

(Alt) In[ ]:=

```
End [] ; EndPackage [] ;
```