```mathematica
SetDirectory["C:\\drorbn\\AcademicPensieve\\2015-04\\Commutators"]
```

C:\drorbn\AcademicPensieve\2015-04\Commutators

```mathematica
Make::usage =
   "Make[targets, sources, 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[targets_, source_String, action__Hold] :=
   Make[targets, Evaluate@{source}, action];
Make[targets_List, sources_List, action_Hold] := Module[{},
    If[
      (And @@ ((FileType[#] =!= None) & /@ sources)) &&
       Or[
         Or @@ ((FileType[#] === None) & /@ targets),
         Min[AbsoluteTime[FileDate[#]] & /@ targets] <
          Max[AbsoluteTime[FileDate[#]] & /@ sources]
        ],
      Print["Making ", targets, " ..."];
      ReleaseHold[action]
     ]
   ];
```

? Make

Make[targets, sources, action] makes a target, or a list of
     targets, given sources, or a list of sources, in the style of the unix 'make' command.

```mathematica
name = "Commutators-Handout";
target = name <> "_400.png";
source = name <> ".pdf";
Make[target, source, Hold[
   Read[
     "!convert -trim -geometry 400x400 -background white -alpha remove -gamma 0.5
        " <> source <> "[0] " <> target];
  ]]

name = "Commutators-Handout";
target = name <> "_800.png";
source = name <> ".pdf";
Make[target, source, Hold[
   Read["!convert -trim -geometry 800x800 -background white -alpha remove " <>
      source <> "[0] " <> target];
  ]]
```

```
target = "Proof.png";

source = "Commutators-Handout.pdf";

dpi = 150;

pos = dpi (11 - Get["Commutators-Handout.pos"]) // Round;

yoff = pos[[1]] // ToString;

ylen = pos[[2]] - pos[[1]] // ToString;

Make[target, source, Hold[
   Read["!convert -density 150 -background white -alpha remove -crop x" <>
       ylen <> "+0+" <> yoff <> " -trim " <> source <> "[0] " <> target];
  ]]

Make["Proof.png", "Commutators-Handout.pdf",
  Hold[Read["!convert -density 150 -background white -alpha remove -crop x" <>
       ylen <> "+0+" <> yoff <> " -trim " <> source <> "[0] " <> target];]]

{
 "TitleNotes" -> "This is the construction folder for my talk \"Commutators\", <a
     href=http://www.math.toronto.edu/~drorbn/Talks/CMU-1504/>http://www.math.
     toronto.edu/~drorbn/Talks/CMU-1504/</a>.<p>",
 "CleanTeX" → True
}
```