

# Make

```

In[ ]:= Make::usage =
  "Make[target, sources, Hold[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]
  ]
];

```

# Collage

```

In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Classes\\2122-257-AnalysisII\\Album"];

```

```

In[ ]:= FileNames[{"*.jpg", "*.jpeg", "*.png", "*.gif"}]

```

```

Out[ ]:= {WordCloud.png}

```

```

In[ ]:= target = "Collage.jpg";
sources = Complement[FileNames[{"*.jpg", "*.jpeg", "*.png", "*.gif"}], {target}];

```

```

In[ ]:= Export[target, ImageCollage[
  1 → ImagePad[#, 8, White] & /@ ImageCrop /@ Import /@ sources,
  "Fit", {2400, 2400},
  Method → "ClosestPacking", Background → White, Padding → Red, ImagePadding → 4
]];
MakeThumb@target

```

```

Out[ ]:= MakeThumb[Collage.jpg]

```

```

In[ ]:= Make[target, sources, Hold[
  Export[target, ImageCollage[
    1 → ImagePad[#, 8, White] & /@ ImageCrop /@ Import /@ sources,
    "Fit", {2400, 2400},
    Method → "ClosestPacking", Background → White, Padding → Red, ImagePadding → 4
  ]
];
MakeThumb@target;
]]

```

# Output

```
In[*]:= {  
  "TitleNotes" → "2021-22 MAT257 Public Album."  
}
```

```
Out[*]= {TitleNotes → 2021-22 MAT257 Public Album.}
```