

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\wDuflo"]
```

```
C:\\drorbn\\AcademicPensieve\\Projects\\wDuflo
```

Make

```
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]
  ]
];
```

WordCloud

```
sources = {"wDuflo.tex", "abstract.tex", "refs.tex"};
target = "WordCloud.png";
```

```
MakeWC[] := Module[{words, dict},
  words = Flatten[TextWords[ReadString[#]] & /@ sources];
  dict = Complement[
    DeleteStopwords[DictionaryLookup[]],
    {"begin", "end", "left", "right", "equation", "item", "em"}
  ];
  words = Select[words, MemberQ[dict, #] &];
  WordCloud[words, ImageSize -> 400]
]
```

```
MakeWC[]
```

```
Make[target, Join[sources, {"index.nb"}], Hold[
  Export[target, MakeWC[]];
  MakeThumb["WordCloud.png"]
]]
```

Output

```

{
  "TitleNotes" ->
  StringJoin["<div style=\"clear: right; float: right; padding: 8px; width: 400px;\"><img width=400px
    src=WordCloud.png></div>This is the construction / computation page for my joint
    paper with <a class=external href=\"http://www.math.toronto.edu/zsuzsi/\">Zsuzsanna
    Dancso</a>, <b>Ribbon 2-Knots,  $1+1=2$ , and Duflo's Theorem for arbitrary
    Lie algebras</b> (<a href=wDuflo.pdf>PDF here</a>). <p><b>Abstract.</b> ",
  StringReplace[ReadString["abstract.tex"], {
    "~" -> "&nbsp;",
    "~`" -> "`", "~'" -> "'",
    "\\cite{Bar-NatanLeThurston:TwoApplications}" ->
      "[<a class=external href=http://front.math.ucdavis.edu/math.QA/0204311>BLT</a>]",
    "\\cite{WK02}" -> "[<a href=../WK02/>BND2</a>]"
  }]
}
]
}

```