

Pensieve header: This is the index file for the 2020-03/OU project; it also produces WordCloud.png.

## Make

```
In[ ]:=
Make::usage =
  "Make[targets, 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 = {"main.tex", "abstract.tex", "f.tex", "t.tex",
  "c.tex", "v.tex", "a.tex", "SomeComputations.tex", "m.tex", "refs.tex"};
target = "WordCloud.png";
```

```
In[ ]:=
DBNDictionaryWords = StringSplit[
  "aarhus abelian acknowledgements adjoint adjoints albert alekseev alexander antipode anton archibald
  artin arxiv associator associators bardakov basepoint behaviour berceanu bialgebra
  bialgebras bijection borromean brenle brochier cablings centres chern chterental chu
  clasplers coadjoint cocommutative cocycle coface cofactor colour coloured colourful
  colourings colours combinatorially combinatorics componentwise conjecturally crans dancso
  det diffeomorphism drinfeld dror duflo enriquez equivariant etingof exp exponentiate
  fenn ftheorem fibre flavours formulae framings trivial froof prove functionals functor
  functorial functoriality functors furusho gluings goussarov grothendieck grouplike
  habiro halacheva harinck hatcher haviv homfly homomorphic homomorphicity homonymous
  homotopic homotopies hopf ihx injective isometries isotopies isotopy jacobian kamnitzer
  kanenobu karene kashiwara kauffman kazhdan kishino kneissler knottings kohno kontsevich
  kricker kuperberg kurlin lescop leung lieberum linearization linearizations loday
  mcool meilhan meinrenken metrized milnor moded moding modulo multicategory multinary
  multiplicatively naot natan ohtsuki operad overcrossing overcrossings papadima parametrizing
  parenthesized parentetization parenthesization parenthesizations parenthetization
  perturbative planarity postfix preprint projectivization projectivizations proven
  quadrivalent quandle quandles reassociate reidemeister reutenauer rimanyi rolfsen
  roukema saito sanderson satoh sder selflinking semidirect semivirtual shima simons
  sinh skeleta skype subalgebra subalgebras subring surjection surjections surjective
  symmetrized tder teichmuller thurston torossian tr trivalence trivolution unbraided
  undercrossing undercrossings unfavourably unforbidden unignoring unipotent unital
  unitarity unitrivalent unknot unoriented usb valent vassiliev vergne verma versa vertices
  virtuals voldemort warmup watanabe wirings wirtinger wko zhang zsuzsanna zsuzsi";
```



```

Make[target, Join[sources, {"index.m"}], Hold[
  Export[target, MakeWC[ImageSize → 420]];
  MakeThumb@target;
]]

```

## Output

```

{
  "TitleNotes" → StringJoin[
    "<div style=\"clear: right; float: right; padding: 8px; width: 400px;\"><a href=DPG.pdf><img
    width=400px src=WordCloud.png></a></div>This is the construction
    / computation page for my joint paper with <a class=external
    href=\"https://sydney.edu.au/science/about/our-people/academic-staff/zsuzsanna.dancso.html\">
    Zsuzsanna Dancso</a> and <a class=external href=\"http://www.rolandvdv.nl/\">Roland
    van der Veen</a>, <b>Over then Under Tangles</b> (<a href=OU.pdf>PDF here</a>,
    <a href=Data/index.html>data files here</a>). <p><b>Abstract.</b> ",
    StringReplace[ReadString["abstract.tex"], {
      "\\par" → "<p>",
      "\\`" → "\", "' → "\"",
      "\\ " → " ",
      "--" → "-",
      "{\\bf " → "<b>", "\\fb}" → "</b>",
      "{\\em " → "<i>", "\\me}" → "</i>"
    }],
    "\\n"
  ]
}

```