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

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

# Make

```
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

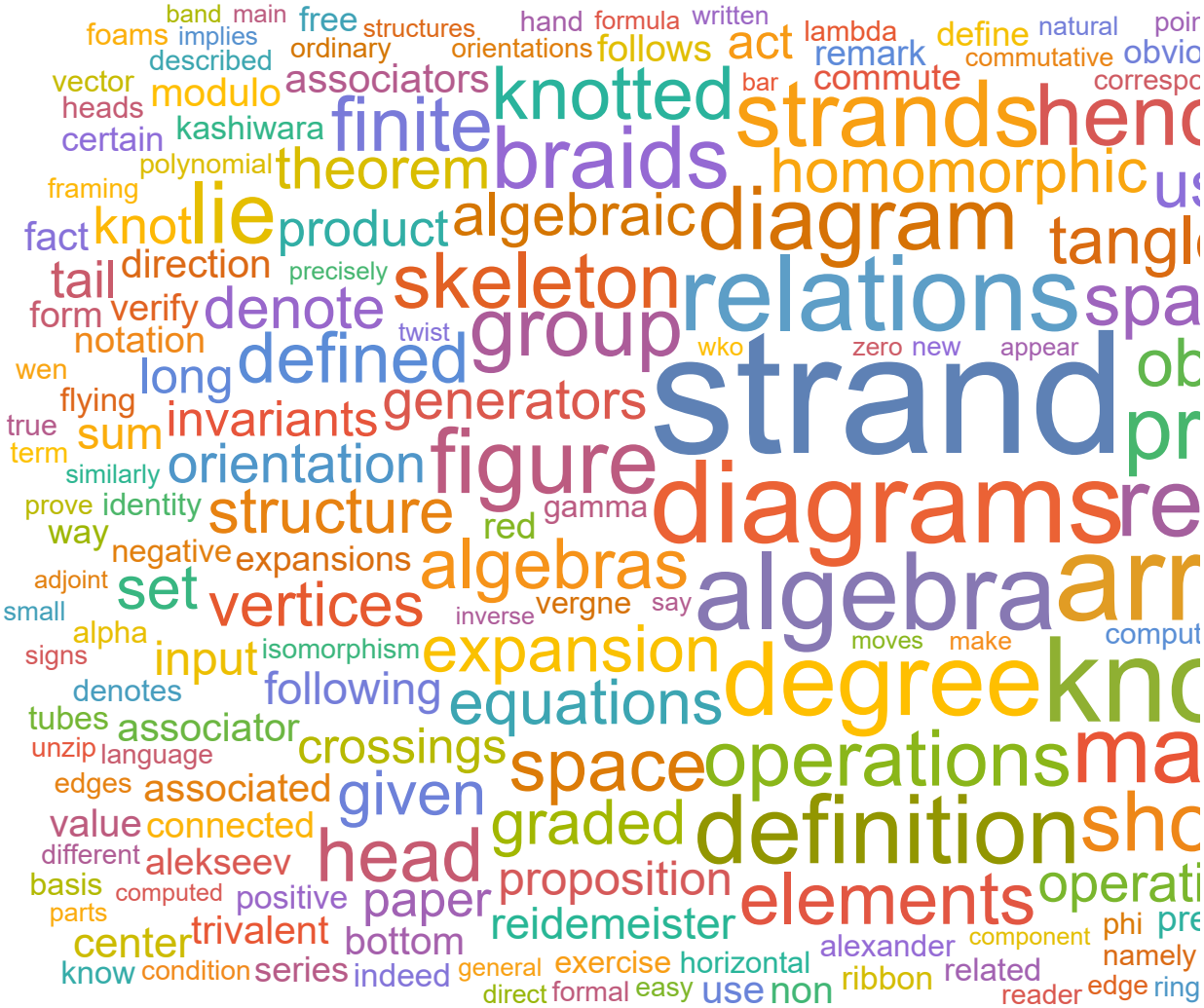
```
sources =
  StringSplit["WKO1/WKO1.tex WKO1/abstract.tex WKO1/intro.tex WKO1/braids.tex
     WKO1/knots.tex WKO1/odds.tex WKO2/WKO2.tex WKO2/abstract.tex
     WKO2/intro.tex WKO2/alg.tex WKO2/tangles.tex WKO2/foams.tex
     WKO2/odds.tex WKO3/DoubleTree.tex WKO3/abstract.tex WKO4/WKO4.tex
     WKO4/abstract.tex WKO4/intro.tex WKO4/E1.tex WKO4/comp.tex"];
target = "WKOWordCloud.png";
```

```
words = DeleteStopwords@Flatten[TextWords[
      StringSplit[
         StringDelete[
          StringDelete[
           ToLowerCase@ReadString[#],
           "\\begin{figure}" | "\\end{figure}"
          ],
          "\\aft" | "\\begin" | "\\caption" | "\\cite" | "\\em" | "\\end" | "\\equation" |
           "\\fig" | "\\figure" | "\\item" | "\\label" | "\\left" | "\\quad" |
           "\\ref" | "\\right" | "\\section" | "\\subsection" | "\\text"
         ],
         Except[CharacterRange["a", "z"]]
        ] & /@ sources
    ]];

MakeWC[opts___] := Module[{words, words1, dict, T, dict1},
  words = ToLowerCase@DeleteStopwords@Flatten[
      StringSplit[TextWords[ReadString[#]], "-"] & /@ sources
     ];
  dict = Complement[
    Union[ToLowerCase@DictionaryLookup[], StringSplit[
      "aarhus abelian acknowledgements adjoint adjoints albert alekseev alexander
        antipode anton archibald artin arxiv associator associators
        bardakov basepoint behaviour berceanu bialgebra bialgebras
        bijection borromean brendle brochier cablings centres chern
        chu claspers 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 fibre flavours formulae framings
        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 mccool meilhan meinrenken metrized milnor
        moded moding modulo multicategory multinary multiplicatively
        naot natan ohtsuki operad overcrossing overcrossings papadima
        parametrizing parentehesized 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"
     ]],
    StringSplit["ac aft begin cali dj em end equation
       fa ill left minus plus ref rh right rs ts tv ty"]
   ];
  dict1 = Dispatch[(# → T[#]) & /@ dict];
  words1 = Cases[words /. dict1, T[w_] :→ w, {1}];
  WordCloud[words1, opts]
 ]

MakeWC[MaxItems → 256, ImageSize → {960, 540}]
```




```
Make[target, "index.nb",
 Hold[Export[target, MakeWC[MaxItems → All, ImageSize → {1920, 1080}]]]]
```

## Output

```
{
 "TitleNotes" -> "This is my projects folder.\n<p>"
}
```