

Pensieve header: This notebook generates KnotTheory/init.m from the modules in src/ and KnotTheory.zip from their sources.

KnotTheory` Make.nb

In the future this notebook will supersede the "makefile"; currently the makefile is not operational, but it is kept in the repository because it contains the list of files that go into DTCodes4Knots12-To16.zip which are not yet made by this notebook.

This notebook also contains some testing code.

Actions

```
In[*]:= Create["init.m"];
```

```
In[*]:= Create["Archives"]
```

Definitions

```
In[*]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\KnotTheory"]
```

```
Out[*]=
```

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

```

In[*]:= InitSources = ("src/" <> #) & /@ {
  "Base.m", "Braids.m", "TubePlot.m", "DrawPD.m", "Data.m", "BraidData.m",
  "Naming.m", "GaussCode.m", "GC2PD.m", "Indiana.m", "HyperbolicVolume.m",
  "WikiForm.m", "HOMFLYPT.m", "Kauffman.m", "Kh.m", "MorseLink.m",
  "DrawMorseLink.m", "ML2PD.m", "AlexanderConway.m", "VogelsAlgorithm.m",
  "MultivariableAlexander.m", "REngine.m", "TestRMatrix.m", "CJREngine.m",
  "ColouredJones.m", "HFGenus.m", "KTtoLinKnot.m", "ArcPresentation.m", "HFK.m"
};
Create["init.m"] := (
  lines = StringReplace[#,
    "----date----" → ToString[Date[]]
  ] & /@ Import["src/System.mm", "Lines"];
  lines = Flatten[{
    lines,
    {
      "(* Begin source file " <> # <> "*)\n",
      Import[#, "Lines"],
      "(* End source file " <> # <> "*)\n\n"
    } & /@ InitSources
  }];
  Export["KnotTheory/init.m", lines, "Lines"]
)

```

```

In[*]:= Create["Archives"] := (
  Switch[FileType["Temporary"],
    File, DeleteFile["Temporary"],
    Directory, (DeleteDirectory["Temporary", DeleteContents → True];
      DeleteDirectory["Temporary"])
  ];
  CreateDirectory["Temporary"];
  CopyDirectory["KnotTheory", "Temporary/KnotTheory"];
  Table[
    d = Length@FileNameSplit@file;
    lines = Import[file, "Lines"];
    lines = StringReplace[#, {
      "src=\"\" <> StringJoin@@Table["../", {d}] →
      "src=\"http://drorbn.net/AcademicPensieve/",
      "href=\"\" <> StringJoin@@Table["../", {d}] →
      "href=\"http://drorbn.net/AcademicPensieve/",
      "href=\"\" <> StringJoin@@Table["../", {d - 1}] →
      "href=\"http://drorbn.net/AcademicPensieve/Projects/",
      "href=\"\" <> StringJoin@@Table["../", {d - 2}] →
      "href=\"http://drorbn.net/AcademicPensieve/Projects/KnotTheory/"
    }] & /@ lines;
    DeleteFile[file];
    Export[file, lines, "Lines"],
    {file, FileNames["index.html", "Temporary", ∞]}
  ];
  DeleteFile /@ {"KnotTheory.zip"};
  CreateArchive["Temporary/KnotTheory", "KnotTheory.zip"];
  DeleteDirectory["Temporary", DeleteContents → True];
)

```