

Pensieve header: This notebook generates KnotTheory/init.m from the modules in src/ and KnotTheory.zip and KnotTheory.tar.gz 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 DTCodes4Knots12To16.tar.gz and DTCodes4Knots12To16.zip which are not yet made by this notebook. This notebook also contains some testing code.

Actions

Warning. init.m was edited by hand and is not created from the source file as below. Needs to run diff!

```
(*Create["init.m"];*)
```

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

```
⋯ DeleteDirectory: Directory Temporary not found.
```

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]; DeleteDirectory["Temporary"];
)

```