glossaR

Bingwei Tian *

Kyoto University, Kyoto, Japan

Contents

Abstract

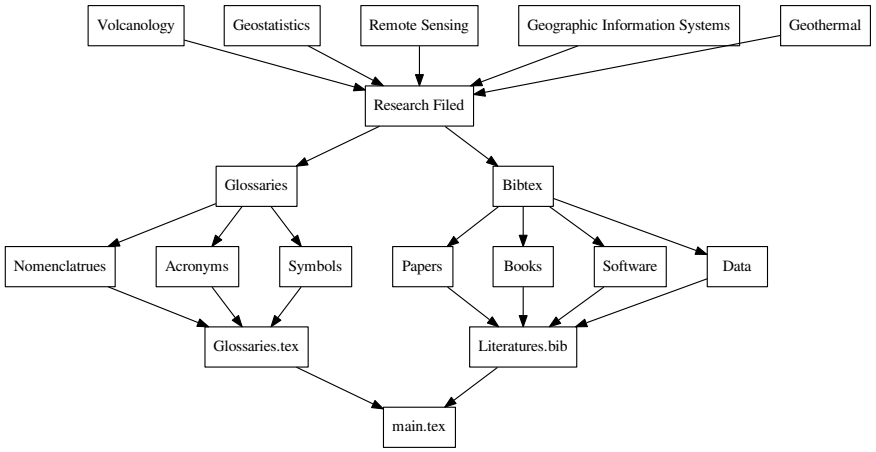
Abstract

1 fig:glossarworkflow

```
digraph {
        fontname="Times";
        fontsize = 12;
        splines = false;
        ranksep = 0.5;
        nodesep = 0.5;
        node [shape = box]
        //1. set node
        vol [label = "Volcanology"]
        gs [label = "Geostatistics"]
        rs [label = "Remote Sensing"]
        gis [label = "Geographic Information Systems"]
        gt [label = "Geothermal"]
        study [label = "Research Filed"]
        gls [label = "Glossaries"]
        nomencl[label = "Nomenclatrues"]
        acro [label = "Acronyms"]
```

*bwtian@gmail.com

```
        symbol [label = "Symbols"]
        bib [label = "Bibtex"]
        glsfile[label = "Glossaries.tex"]
        bibfile[label = "Literatures.bib"]
        main [label = "main.tex"]
        //2. set path
        {gs, gis, rs, gt, vol} -> study -> {gls, bib}
        gls -> {nomencl, acro, symbol} -> glsfile -> main
        bib -> {"Papers", "Books", "Software", "Data"} -> bibfile -> main
        //3. set rank
        {rank = same; gs, gis, rs, gt}
}
```



2 fig:work with R to extract glossaries

```
digraph {
fontname="Times";
fontsize = 12;
splines = false;
ranksep = 0.2;
nodesep = 0.5;
node [shape = box]
//1. set node
gls [label = "Glossaries"]
```

```
nomencl[label = "Nomenclatrues"]
acro [label = "Acronyms"]
symbol [label = "Symbols"]
xml [label = "XML", shape = circle]
df0 [label = "data.frame \n (raw)", color = blue]
df1 [label = "data.frame \n (unduplicated)", color = blue]
df2 [label = "data.frame \n (latex)",color = blue]
orgTable0 [label = "org table \n (raw) "]
orgTable1 [label = "org table \n (unduplicated)"]
orgTable2 [label = "org table \n (latex)"]
glsfile [label = "Glossaries.tex \n( keep Update)", color = red, fill=gray]
//2. set path
gls -> {acro, nomencl, symbol} -> xml
xml -> df0 [label = " web scrape"]
xml -> orgTable0 [label = " paste \n& convert"]
df0 -> orgTable0 [label = " R:print"]
orgTable0 -> df1 [label = " R:!duplicate(df) \l babel:var"]
orgTable1 -> df1 [label = " R:print", dir = back]
orgTable1 -> orgTable2 [label = " unique Label \n format Latex \n remove Error"]
orgTable2 -> df2 [label = ":var "]
df2 -> glsfile [label= " paste\n write.table", weight = 10]
//3. set rank
{rank = same; df0, orgTable0}
{rank = same; df1, orgTable1}
{rank = same; df2, orgTable2}
}
```

[width=.9]orgAndR

3 R:

4 tbl:Restec

```
################################################################################
## R code chunk:
################################################################################
```

5 Remote Sensing Glossaries

5.1 http://www.ldeo.columbia.edu/res/fac/rsvlab/glossary.html

```
################################################################################
## R code chunk:
################################################################################
```

Emacs 24.3.1 (Org mode 8.2.10)