Go
Everything You Wanted to Know About Go
and
Didn't Know to Ask

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Abstract

Working at GCI Network Services, OSS I needed a location for Go documentation. Hence this document.

Contents

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List of Figures

List of Tables

List of Definitions and Abbreviations

- **MOA** - Municipality of Anchorage

Introduction

Introduction to the LaTeX Template with Examples.

Comments

COMMENTS Comment — *Sean Weems, Spring 2003*
We should get the COMMENTS column searchable via the landrecords application before we do much anything else – shouldn't be too hard.

Errata: Plats spanning multiple sections
A few anomalies can be observed in the AKPLATS table. Specifically plats exist that span multiple sections. Since the table only has a single column, SCODE, that accepts a single section code, SGU (Status Graphics Unit) has handled this problem by entering multiple rows in the table, each with a different section that point to the same plat or file. Multiple section plats are indicated by setting the TCODE column to the value 37, and making an appropriate notation like *Section 24-25-26-27* in the REMARKS column.
[FIXME: Perhaps the SCODE column should accept an array of sections?]

Functions

Examples

Series of useful LaTeX markup. Need to break out to separate examples.tex file.

Escaping < and > Symbols

To get $<$ or $>$ just wrap the symbols in $ for math mode.

Enumerate

1. DNR - Alaska State Department of Natural Resources

   - HI - Historical Index, not maintained since 1982
   - LE - Land Estate, maintained by SGU
   - ME - Mineral Estate, maintaind by SGU

2. Alaska State Surveys

   - ASBLT - As-Built Survey
   - ASCS - Cadastral Survey

Footnotes

See my footnote[1] generated with:

```
\footnote{\href{http://www.google.com/search?q=latex+footnotes}
{Search google for footnotes.}}
```

GoogleGuide — Linking to Search Results.[2]

Hyperlinks

Use \href{} to generate hyperlinks:

```
\href{http://www.google.com}{Google}}
```

Yields: Google

Table Examples

Column Name	Type	Description
EQS	VARCHAR2(1)	!NULL map shows village selections
ITM_COL	VARCHAR2(1)	USGS ITM column: 1-6
ITM_ROW	VARCHAR2(1)	USGS ITM row: A-E
QMQ_ABBR_DNR	VARCHAR2(3)	Three character DNR abbreviation for the QMQ
RASTER_FILENAME	VARCHAR2(50)	Physical path to file
RASTER_PATHNAME	VARCHAR2(50)	URL path to PDF of map
SCODE	VARCHAR2(2)	Supplement map code: 1,2,3,...
COMMENTS	VARCHAR2(256)	Plat comments

Table 1: `EASEMENTS_17B` Table

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[1]Search google for footnotes.

[2]GoogleGuide — Linking to Search Results.

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XML element	Descripton
FNUM	US Survey file number
MERIDIAN	BLM meridian code
	12 = Copper River
	13 = Fairbanks
	28 = Seward
	44 = Kateel
	45 = Umiat
TOWNSHIP	Five character Township code
RANGE	Five character Range code
PAGE	Survey page number 1,2,3,...
FILENAME	Relative path to file in direcory

Table 2: USS XML index elements

col 1	col 2	col 3	col 4
item 1	item 2	item 3	item 4
item 1	item 2	item 3	item 4

Table 3: Demo

Virtual Machine	Apache	ELM	LM	Elluminate Server
dcs-elive-prod01		x	x	x
uaa-elive-dev01	x	x	x	
uaa-elive-server01				x
uaa-elive-prod01		x	x	x
uaf-elive-prod01		x	x	x
uas-elive-prod01		x	x	x

Table 4: Daemons

Column Name	Type	Description
MTR	VARCHAR2(9)	Meridian, Township, Range, example: *C026S054E*
QMQ	VARCHAR2(3)	Quarter Million Quadrangle code, example: *DIL* (Dillingham quadrangle)

Table 5: `XREF_MTR_QMQ` Table

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Verbatim

"The verbatim environment is a paragraph-making environment that gets LaTeX to print exactly what you type in. It turns LaTeX into a typewriter with carriage returns and blanks having the same effect that they would on a typewriter."[3]

```
\begin{verbatim}
    text
\end{verbatim\}
```

Figure formatting with verbatim
The following figure leverages verbatim for proper formatting:

```
gis/raster/
  dnr/
    map_library/
    plats/
      SP/YYYYMMDD/*.pdf              # indexed
      HI/YYYYMMDD/*.pdf              # Indexed
      ASLS/YYYYMMDD/*.pdf           # Indexed
    recorded-plats/
      YYYYMMDD/*.pdf
  blm/
    easements_17b/YYYYMMDD/*.pdf    # indexed
    mtp/YYYYMMDD/*.pdf              # non-indexed
    usrs/YYYYMMDD/*.pdf             # indexed
    usrs-notes/YYYYMMDD/*.pdf       # indexed
    uss/YYYYMMDD/*.pdf              # indexed
    uss-notes/YYYYMMDD/*.pdf        # indexed
    usms/YYYYMMDD/*.pdf             # indexed
    usms-notes/YYYYMMDD/*.pdf       # indexed
  usgs/
    drg/
      collared/
        250K/
        63K/
        25K/
        24/
      decollared/
      tools/
      missing\_data/
    dem/
    doq/
    topo/
```

Figure 1: File and Directory Structure

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Version Number

It is often desirable to add a version number to a document for tracking or revision control. CVS or Subversion users can use the `rcs` or `svnInfo` packages for inline version information.

[FIXME: Need to complete details here]

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Endnotes

1. LaTeX verbatim
   http://www.kfunigraz.ac.at/ binder/texhelp/ltx-79.html

Appendix

Links

A Tour of Go
The tour covers the most important features of the language, mainly: Basics (Packages, variables, functions, flow control statements: for, if, else, switch, defer, more types: structs, slices, and maps), Methods and interfaces, and Concurrency. https://tour.golang.org/welcome/1

Package types
```
import "go/types"
```
Package types declares the data types and implements the algorithms for type-checking of Go packages. Use `Config.Check` to invoke the type checker for a package. Alternatively, create a new type checked with `NewChecker` and invoke it incrementally by calling `Checker.Files`. The Go Programming Language
https://golang.org/pkg/go/types/