

What We Do

Allegan County GIS www.allegancounty.org/gis

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Part I

Brand

Chapter 1

Awards

1.1 The GIS Champion Award

1.1.1 GIS Champion Award Code

```
\documentclass[landscape]{article}
\usepackage{wallpaper}
\usepackage{niceframe}
\usepackage{xcolor}
\usepackage{ulem}
\usepackage{graphicx}
\usepackage{geometry}
\geometry{tmargin=.75cm,bmargin=.25cm,lmargin=.8cm,rmargin=.2cm}
\usepackage{multicol}
\setlength{\columnseprule}{0.4pt}
\columnwidth=0.3\textwidth
\begin{document}
%\TileWallPaper{4cm}{2cm}{CoLogo133x200.png}
\centering
\scalebox{3}{\color{green!30!black!60}
\begin{minipage}{.33\textwidth}
\font\border=umrandb
\generalframe
{\border \char113} % up left
{\border \char109} % up
{\border \char112} % up right
{\border \char108} % left
{\border \char110} % right
```

```
{\border \char114} % lower left
{\border \char111} % bottom
{\border \char115} % lower right
{\centering
\includegraphics[height=1.25cm]{GIS_Logo_better.jpg}
%\end{minipage}
\vspace{-8mm}
\curlyframe[.9\columnwidth]{
\textcolor{red!10!black!90}
{\small Allegan County GIS Services}\\
\textcolor{green!10!black!90}{
\tiny recognizes}
//
\uline{\textcolor{black}
{Ian Hanes}}
\smallskip
\tiny Chief Equalization Technician
\smallskip
\textcolor{green!10!black!90}
{
\tiny as a
\smallskip
\tiny
//
\textcolor{black}{\large \textsc{GIS Champion}}
//
\vspace{1mm}
\textcolor{green!10!black!90}
\tiny for outstanding dedication and service to the community
\\while using GIS technology on this day
\itshape June 29, 2018
\vspace{3mm}
{\color{blue!40!black}
\scalebox{.6}{
\begin{tabular}{ccc}
```

```
\cline{1-1}
%\cline{2-2}
\cline{3-3}
%\cline{4-4}
%\cline{5-5}
\\
Neil Besteman & & Bryan May \\
GIS Manager & & GIS Analyst \\
\end{tabular}
}}}
\end{minipage}
}
\end{document}
```

$\begin{array}{c} {\rm Part~II} \\ {\rm Methods} \end{array}$

Chapter 2

Documentation

2.1 About Documentation

2.1.1 How This Book Works

Project General Notes:

- Book folder can be renamed an moved.
- This project is coded with relative paths from processing folder down.

Project file structure:

J:\LIS\GIS_Doc\book\build

pdf docs created by the underlying .tex docs and copied here manually.

J:\LIS\GIS_Doc\Book\source

images that appear in

\GIS_Documentation.tex

J:\LIS\GIS_Doc\Book\processing

the Tex workspace.

\GIS_Documentation.tex

top level of documentation of type "book" in LATEX. Where book properties and book parts are managed and chapters are imported.

\archive

archive copies of entire processing folder.

\brandPart

LATEX "book part" about the brand.

 $\mbox{methodsPart}$

 \LaTeX "book part" about the methods.

\servicePart

LATEX "book part" about services.

\build

folder for temp docs when created by compiling of:

 ${\tt GIS_Documentation.tex}$

^{*} Note: each level from here down has a build folder for temp Latex files like this.

Service Book Part Detail

relative path:

\processing\servicePart\toolsChapter.tex

intermediate level of "book" in LATeX. Where (service part, tool) chapter properties are managed and sections are imported.

tools Chapter

relative path:

\processing\servicePart\toolsChapter

intermed level of "book" in LaTeX. Where book section properties are managed and subsections are imported.

2.2 Document Storage Concepts

2.2.1 GIS File Standard

Folders inside the project folder

- archive
- build
- \bullet delivered
- documentation
- processing
- \bullet source

2.3 Team Concept

2.3.1 Paired Programming

some point about pp

Part III

Service

Chapter 3

Tools

3.1 \LaTeX Packages used by AC GIS

3.1.1 float Package

usepackage

text

Simple Use

text

Options

text

Add optional arguments to the usepackage line: Useful options:

- OPTION NAME OPTION NOTE
- OPTION NAME OPTION NOTE

Use with options

text

3.1.2 graphicx Package

usepackage

text

Simple Use

text

Options

text

Add optional arguments to the usepackage line: Useful options:

- OPTION NAME OPTION NOTE
- OPTION NAME OPTION NOTE

Use with options

text

Commands

3.1.3 hyperref Package

Introduction

Official hyperref package documentation

Note: Add the hyperref package to the preamble last.

\usepackage[options]{hyperref}

Simple Use

Use \href{URL}{DESCRIPTION} to add a link with description

\href{https://www.latex-tutorial.com}{Website with tutorials}
produces:

Website with tutorials

Options

Add optional arguments to the usepackage line: Useful options:

• pdftex

enables other options like breaklines

breaklinks

allow links to be broken across several lines eg. https://lists.gnu.org/archive/html/emacs-orgmode/2013-06/msg00776.html

• colorlinks

Colors the text of links and anchors.(default is false)

• linkcolor

Color for normal internal links(default is red).

anchorcolor

Color for anchor text.

citecolor

Color for bibliographic citations in text.

urlcolor

Color for linked URLs

Use with options

\usepackage[breaklinks,colorlinks,citecolor=blue,
urlcolor=green]{hyperref}

Commands

\href{URL}{text} Makes text a link to URL.

To put a file path in text:

eg:

Official hyperref package documentation

(documentation Pt.4 pg.15)

\href[options]{URL}{text}

Options:

• absolute

```
\href{C:/AC/jalapeno/documentation/packageDocs/hyperref2017.pdf}
{Official hyperref doc}
```

• relative Note: relative path must be from final pdf location

```
\href{../../../coumentation/packageDocs/hyperref2017.pdf}
        {Official hyperref package doc}
     *This path works from main document
     \href{../../documentation/packageDocs/hyperref2017.pdf}
        {Official hyperref package documentation}
     *This path works from subsection document
\hyperref[label]{text}
    Makes text a link to where \ref{label} would point.
\hypertarget{name}{text}
    Sets an anchor on text with the label name.
\hyperlink{name}{text}
    Makes text a link that takes you to the anchor labeled name.
    *Pair with \hypertarget.
\phantomsection
    Used in conjunction with
\addcontentsline
```

to make the correct link in the Table of Contents.

3.1.4 import Package

usepackage

text

Simple Use

text

Options

text

Add optional arguments to the usepackage line: Useful options:

- OPTION NAME OPTION NOTE
- OPTION NAME OPTION NOTE

Use with options

text

3.1.5 standalone Package

Introduction

Link to official standalone documentation standalone provides a package and a class

- The *standalone* **package** is used for:
 - Main documents that will input or import sub documents.
 - For example:

\usepackage[subpreambles=false]{standalone}

- * Ignores preambles of imported sub documents
- the standalone class:
 - Is a document class
 - Provides standalone / subdocument switches and options
 - For example:

\documentclass[class=article]{standalone}

- * behaves as an article when standalone
- * makes document available for import into a master document

Simple Use

- ullet The standalone package
 - In the main document:

```
\documentclass[openany]{book}
```

```
\preamble...
```

\usepackage{standalone}

- the standalone class:
 - In any subdocument:

```
\documentclass[class=article]{standalone}
```

```
\preamble...
```

Options

- The standalone package
 - subpreamble
 - * default value of subpreambles is false
- ullet the standalone class:
 - crop
 - titlepage
 - twoside
 - * Makes pagination style match book
 - * default value is false
 - multi
 - * multi=true|false
 - * multi={<environment name>, ...>}
 - float

Use with options

- the standalone package:
 - \usepackage[subpreambles=false]{standalone}
- the standalone class:

3.1.6 wrapfig Package

usepackage

text

Simple Use

text

Options

text

Add optional arguments to the usepackage line: Useful options:

- OPTION NAME OPTION NOTE
- OPTION NAME OPTION NOTE

Use with options

text