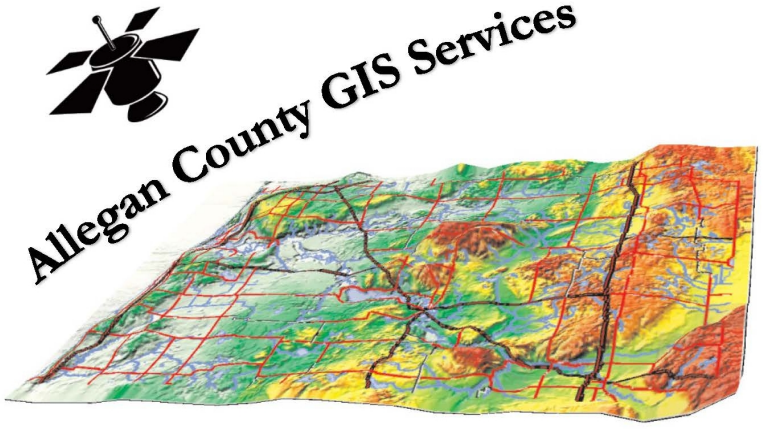


# What We Do

Allegan County GIS
www.allegancounty.org/gis

July 11, 2018

# Contents

# 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}
```

# Part II

# Methods

# 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.

`\methodsPart`

LaTeX "book part" about the methods.

`\servicePart`

LaTeX "book part" about services.

`\build`

folder for temp docs when created by compiling of:

```
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.

### toolsChapter

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
- delivered
- documentation
- processing
- 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
```

## Commands

### 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{../../../../../documentation/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
```

#### Commands

### 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

- 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*
- 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**:
  - ```
    \documentclass[class=article , crop=false,
        titlepage, twoside,
        multi={itemize, figure, verbatim},
        float=false]{standalone}
    ```

## Commands
    ```

### 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
```

#### Commands