



## What We Do

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Allegan County GIS  
[www.allegancounty.org/gis](http://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}
```

# **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 and 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 L<sup>A</sup>T<sub>E</sub>X. Where book properties and book parts are managed and chapters are imported.

`\archive`

archive copies of entire processing folder.



`\brandPart`

L<sup>A</sup>T<sub>E</sub>X "book part" about the brand.

`\methodsPart`

L<sup>A</sup>T<sub>E</sub>X "book part" about the methods.

`\servicePart`

L<sup>A</sup>T<sub>E</sub>X "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 L<sup>A</sup>T<sub>E</sub>X. Where (service part, tool) chapter properties are managed and sections are imported.

**toolsChapter**

relative path:

```
\processing\servicePart\toolsChapter
```

intermed level of "book" in L<sup>A</sup>T<sub>E</sub>X. 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 L<sup>A</sup>T<sub>E</sub>X Packages used by AC GIS

#### 3.1.1 hyperref Package

##### usepackage

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](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.
```

[Manual for hyperref](#)

```
\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.
```

### 3.1.2 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