

Version 2.3

# Center for Discovery of Great Topics

## 2021 Hitch Hiker's Guide to Thesis Templates

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# Introduction

Write your presentation like a normal  $\text{\LaTeX}$  file with a `\maketitle` command and `\chapter` and `\section` headings. The `\maketitle` contents are defined by the following macros:

```
\pretitle    \title        \subtitle
\author      \extralogo
```

The `\extralogo` command specifies an extra logo below the AFIT crest. The `\chapter` heading creates a slide with just the chapter name. The `\section` heading sets the title of a new slide. However, if no text follows the section, no slide will be created. Text which does not fit on one slide will flow onto the next slide automatically. To get 4-by-3 aspect ratio slides, specify `standard` as an option to the document class.

Use the `\twocolumn` and `\onecolumn` commands right after the section heading to control the number of columns. Text will flow from the left column to the right.

- Point one
- Point two
- Point three
- Point four
- Point five

- Point six
- Point seven
- Point eight
- Point nine
- Point ten
- Point eleven
- Point twelve

You can use `\pagebreak` to force text onto the next column.

You can create any variety of subdivisions on your slide by using the tabular environment.

<b>Primary</b>	<b>Secondary</b>	<b>Tertiary</b>
First	Second	Third
One	Two	Three
<b>Alpha</b>	<b>Beta</b>	<b>Gamma</b>
Green	Blue	Red
Cyan	Yellow	Magenta

The `\cellcolor` command sets the background color of a table cell.

Use the Center environment  
to center horizontally *and* vertically.

# Explicit Code

Use the python environment for Python code.

```
1 def write_list(fid, x, level):
2     ind = ' '*level
3     xs = '0' if abs(x[0]) < 1e-3 else "%.3f"
4     txt = '\n%svalues=\ "%s' % (ind, xs)
5     for n in range(1, len(x)):
6         xs = '0' if abs(x[n]) < 1e-3 else "%.3f"
7         if len(txt) + 3 + len(xs) >= 80:
8             fid.write(txt + ';\n')
9             txt = ind + ' ' + xs
10        else:
11            txt += ';' + xs
12    fid.write(txt + '\n')
```



Use the `matlab` environment for MATLAB code.

```
1 function savepdf(name, width, height)
2     % name is the file name including ".pdf".
3     % Both width and height are in (cm).
4     set(gcf, 'units', 'centimeters', ...
5           'position', [0, 0, width, height])
6     set(gca, 'FontSize', 9);
7     set(gca, 'FontName', 'Times New Roman');
8     exportgraphics(gcf, name, ...
9           'ContentType', 'vector');
10 end
```

Use the `rlang` environment for R code.

```
1 factorial <- function(n) {  
2     if (n == 0 || n == 1) {  
3         return(1)  
4     } else {  
5         return(n * factorial(n - 1))  
6     }  
7 }
```

# **Control and Classification**

Unless your presentation is being distributed, no markings need to be applied. If it is approved for public release without restriction, you can mark it as Distribution A with the `\distributionA` command.

If it is approved with a different distribution statement (B through F), specify the banner as `\banner{cui}` and fill in the details with the `\cui` command:

```
\cui{Controlled By: AETC \\  
    Controlled By: AFIT/ENG \\  
    CUI Category(ies): PRVCY \\  
    Distribution: \DistB{CATEGORY}{DATE}{OFFICE} \\  
    POC: John Smith, 555-123-4567}
```

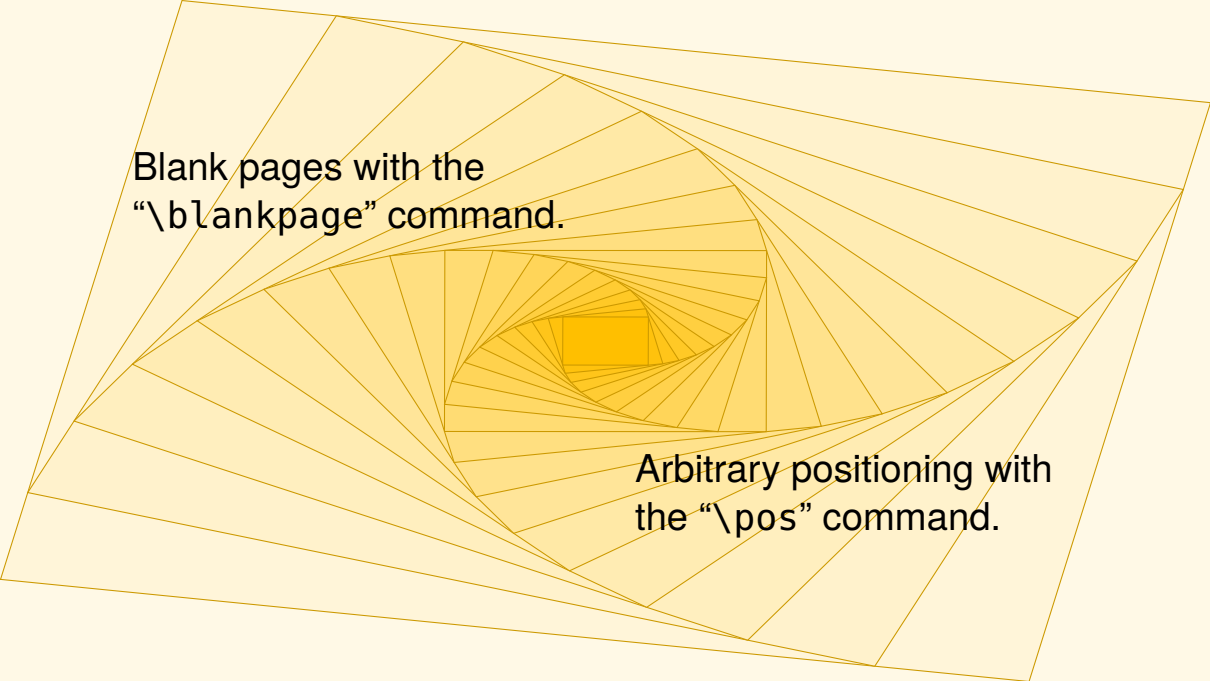
For classified information, use the `\banner` command and the classification (e.g., `\banner{secret}`) and the `\classified` command:

```
\classified{  
  Classified By: \\  
  Derived From: \\  
  Declassify On: }
```

Although specific colors are not officially dictated, it is common to use certain colors for certain degrees of information control. A color theme can be set for the presentation by entering the color as a parameter to the class: `\documentclass[purple]{afitdefense}`. The commonly used colors are

Top Secret//SCI	yellow	Confidential	blue
Top Secret	orange	CUI	purple
Secret	red	Uncontrolled	green

Note that “CUI” means “Controlled Unclassified Information.”



Blank pages with the  
“\blankpage” command.

Arbitrary positioning with  
the “\pos” command.



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*The AFIT of today is the Air and  
Space Force of Tomorrow.*