

A cartoon illustration of a green iguana with black spines, resting on a brown branch with green leaves.

# IguanaTex in MS PPT

## - Step by step tutorial

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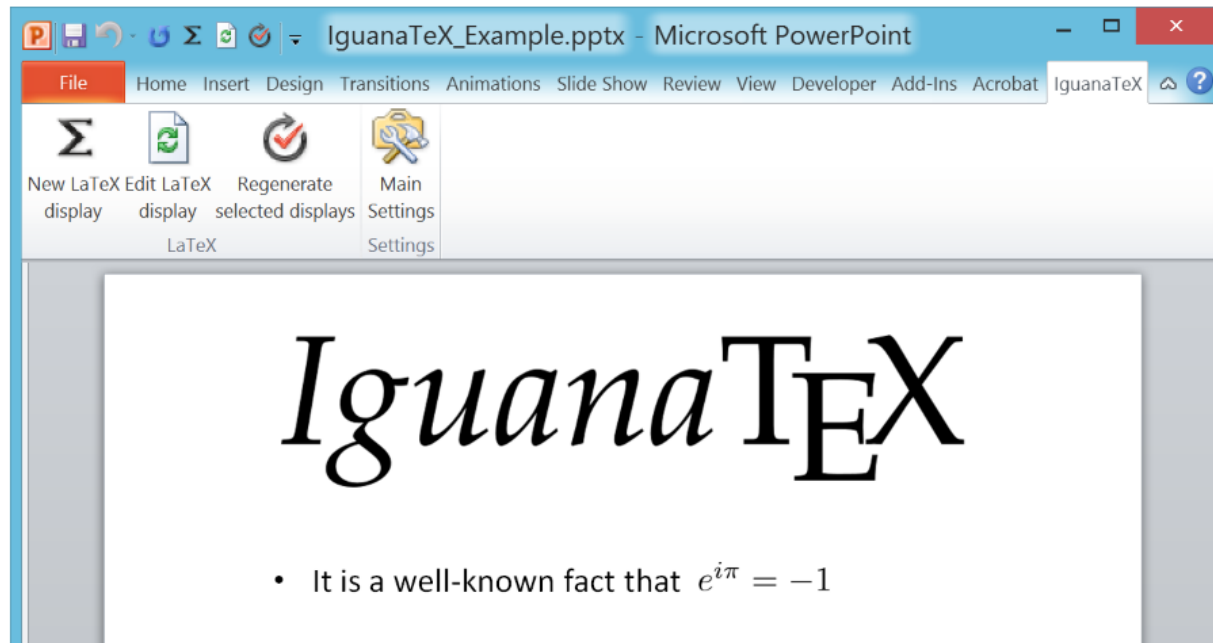
Created on 02/13/2018

Last updated on 4/7/2018

# IguanaTex

- **A Free LaTeX Add-In for PowerPoint on Windows**
- <http://www.jonathanleroux.org/software/iguanatex/>

Type any valid LaTeX code, and click on Generate. IguanaTex will compile your code into LaTeX, generate an image from it and insert it into PowerPoint.



Need to change something in the equation? Just select the image, then click on "Edit LaTeX display" in the IguanaTex tab of the ribbon, and the IguanaTex dialog will re-appear so you can edit the LaTeX code.

You can also treat the equation as an ordinary PowerPoint image. For example, it can be grouped, animated, rotated, moved, and resized. Further editing of the equation will preserve all these changes.

If you need to make similar changes to multiple displays (e.g., changing latex engine, size, DPI, vector/bitmap, transparency, and simple text search & replace), select multiple displays or even multiple slides, and use "Regenerate selection" to apply all changes at once.

When you save the presentation, both the image and the LaTeX code are stored. This means that you can display your presentation on any computer, even computers on which IguanaTex is not installed (no more missing fonts!). Of course, equations can only be

# What to install?

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- **System Requirements** <http://www.jonathanleroux.org/software/iguanatex/>
- Windows 2000 or later. We now also support 64-bit versions of Windows.
- *PowerPoint*: IguanaTex has been tested with PowerPoint 2010, 2013, 2016 (both 32 and 64 bit), and PowerPoint 2003. It is likely to also work in PowerPoint 2000 and 2007.
- *LaTeX* (can be downloaded from [MiKTeX](#) or [TeX Live](#))
- (Optional but recommended): [GhostScript](#) and [ImageMagick](#), required to use the optional LaTeX to PDF to PNG conversion.
- (Optional but recommended): [TeX2img](#), used for vector graphics output.

In summary, we must have installed these one by one

1. Microsoft Power Point
2. LaTeX (MikTex in this case)
3. Ghostscript (I found this is necessary though)

# Installation

- Load the add-in:  
in "File" > "Options" > "Add-Ins" > "Manage:", choose "PowerPoint Add-Ins" then "Go...", then click "Add New", select the .ppam file in the default Add-In folder or in the folder where you downloaded it, then "Close"
- Create and set a temporary file folder:  
IguanaTex needs access to a folder with read/write permissions to store temporary files.
  - The default is "C:\Temp\". If you have write permissions under "C:\", create the folder "C:\Temp\". You're all set.
  - If you cannot create this folder, choose/create a folder with write permission at any other location. In the IguanaTex tab, choose "Main Settings" and put the path to the folder of your choice. You can also use a relative path under the presentation's folder (e.g., ".\" for the presentation folder itself).
- (Optional, for pdflatex/xelatex/lualatex support) Install and set path to GhostScript and ImageMagick:  
To use the PDF to PNG conversion (i.e., with pdflatex, xelatex and lualatex) instead of the default DVI to PNG one, you need to install [GhostScript](#) and [ImageMagick](#) and set the appropriate full paths to gswin32c.exe/gswin64c.exe (note the "c"!) and convert.exe in the "Main Settings" window. When installing ImageMagick, make sure to check the box to "Install development headers and libraries for C and C++" and (in recent versions) to "Install legacy utilities (e.g. convert)". Download links are provided in the Main Settings window.
- (Optional, for vector graphics support) Install and set path to TeX2img:  
To use vector graphics output, you need to install [TeX2img](#) (here is the [direct download link](#) for recommended version 2.1.0). After unpacking TeX2img somewhere on your machine, please run TeX2img.exe once to set the various paths to latex/ghostscript, then set the full path to TeX2imgc.exe (note the "c"!) in the "Main Settings" window.
- The code assumes that you have LaTeX installed and that the "pdflatex" command can be found by the system. To confirm this, you can open a command window and type pdflatex.

# Step 1: download [IguanaTex v1.55 \(.ppam\)](http://www.jonathanleroux.org/software/iguanatex/)

- <http://www.jonathanleroux.org/software/iguanatex/>

## IguanaTex

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Quick links: [\[Index\]](#) [\[FAQ\]](#) [\[Google Group\]](#)

### Latest version:

The latest version of IguanaTex (currently v1.55 -- September 28, 2017) should work for all users, on 32-bit or 64-bit Windows, running 32-bit or 64-bit MS Office, on PowerPoint 2003, 2007, 2010, 2013, and 2016.

**Recommended download (all users):** [IguanaTex v1.55 \(.ppam\)](#) (September 28, 2017)

MD5: f6063a07f200f8042e98b3d7aafac22b

SHA256: 7b6252488e566fe72036bef35561178f59d605b55a43e89327ac80bc8b3201e4

**Important note regarding malware detections:** Recently, several anti-virus softwares and firewalls have started reporting IguanaTex\_v1\_55.ppam as malware, sometimes even blocking download. After careful review of the code, I believe that these are **false positives** ([more details](#) at the bottom of this page). If you are having difficulties downloading the file above, you can either white-list it with your anti-virus software, or try one of the other versions: [Password protected .zip file containing the add-in](#) (password: IguanaTex), [Developer add-in](#), [Official source](#), [Developer source](#) (for the source versions, open and "save as" a .ppam add-in file, that you then need to load).

### New features:

**v1.50+:** vector graphics support; batch edit mode; insertion of vector graphics files (.pdf/.eps/.ps/.emf) as PowerPoint shapes; [and many more](#).

**v1.40+:** platex (Japanese) support; templates; per-display settings; TexPoint compatibility; read .tex from file; edit in external editor; regenerate multiple displays at once; relative path settings; [and many more](#).

**Since v1.37:** UTF-8 support; new PDF to PNG conversion option, e.g. to handle Tikz; selection between pdflatex/xelatex/lualatex; various usability improvements; better error handling.

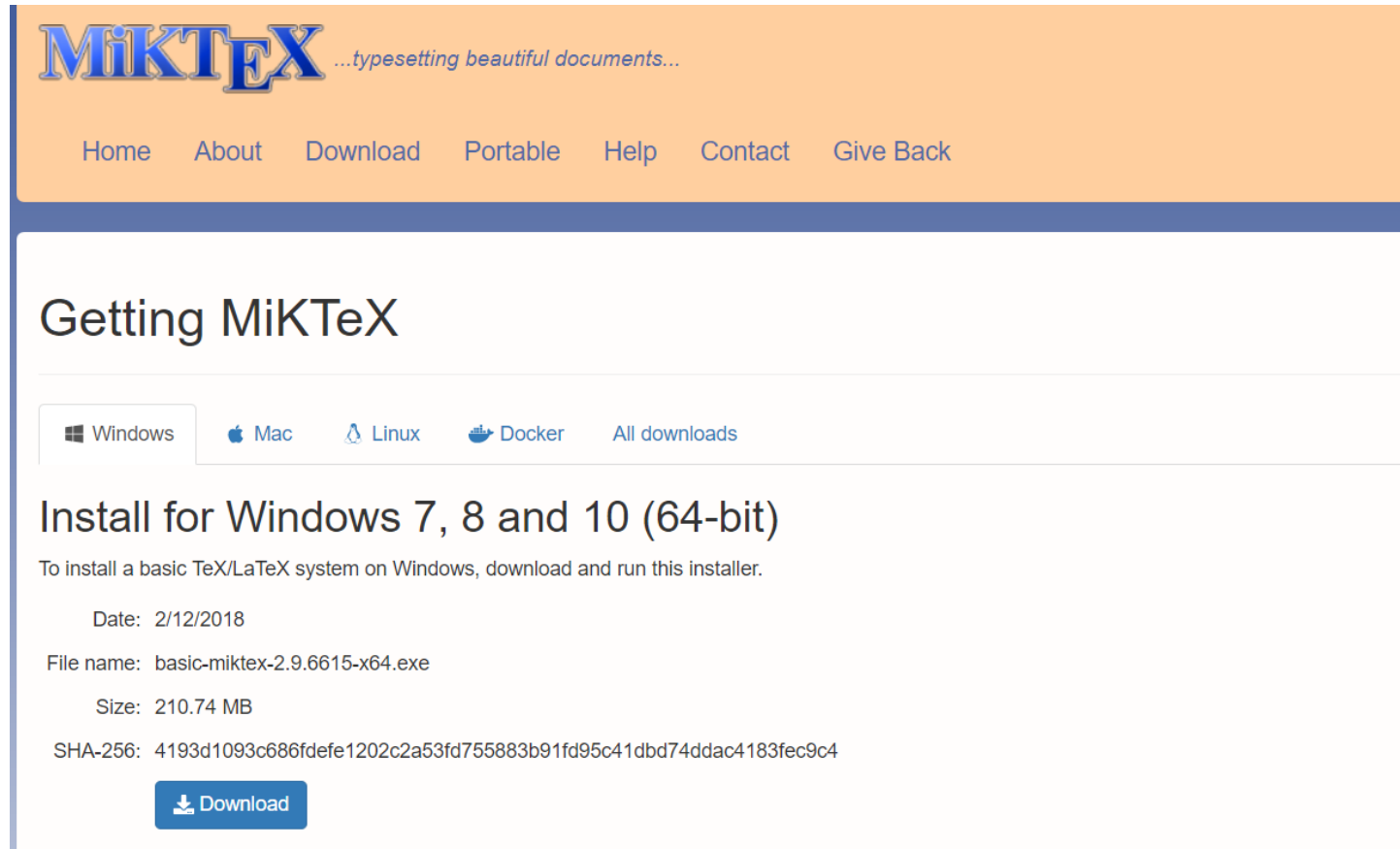
**IguanaTex Google Group:** To be informed of the release of new versions, you can join the [IguanaTex Google Group](#).

**IguanaTex is free, but if you like it and would like to show your appreciation, I encourage you to donate to the non-profit**



## Step 2: install MikTeX

- <https://miktex.org/download>
- Instructions
  - <https://miktex.org/howto/install-miktex>



The screenshot shows the MikTeX website. At the top is an orange header with the MikTeX logo and the tagline "...typesetting beautiful documents...". Below the logo is a navigation bar with links: Home, About, Download, Portable, Help, Contact, and Give Back. The main content area has a blue header with the title "Getting MiKTeX". Below this is a sub-header with tabs for different operating systems: Windows (selected), Mac, Linux, Docker, and All downloads. The main text under the "Windows" tab reads "Install for Windows 7, 8 and 10 (64-bit)" and "To install a basic TeX/LaTeX system on Windows, download and run this installer." Below this text are the following details: Date: 2/12/2018, File name: basic-miktex-2.9.6615-x64.exe, Size: 210.74 MB, and SHA-256: 4193d1093c686fdefe1202c2a53fd755883b91fd95c41dbd74ddac4183fec9c4. At the bottom of this section is a blue button with a download icon and the text "Download".

**MiKTeX** ...typesetting beautiful documents...

Home About Download Portable Help Contact Give Back

## Getting MiKTeX

Windows Mac Linux Docker All downloads

### Install for Windows 7, 8 and 10 (64-bit)

To install a basic TeX/LaTeX system on Windows, download and run this installer.

Date: 2/12/2018

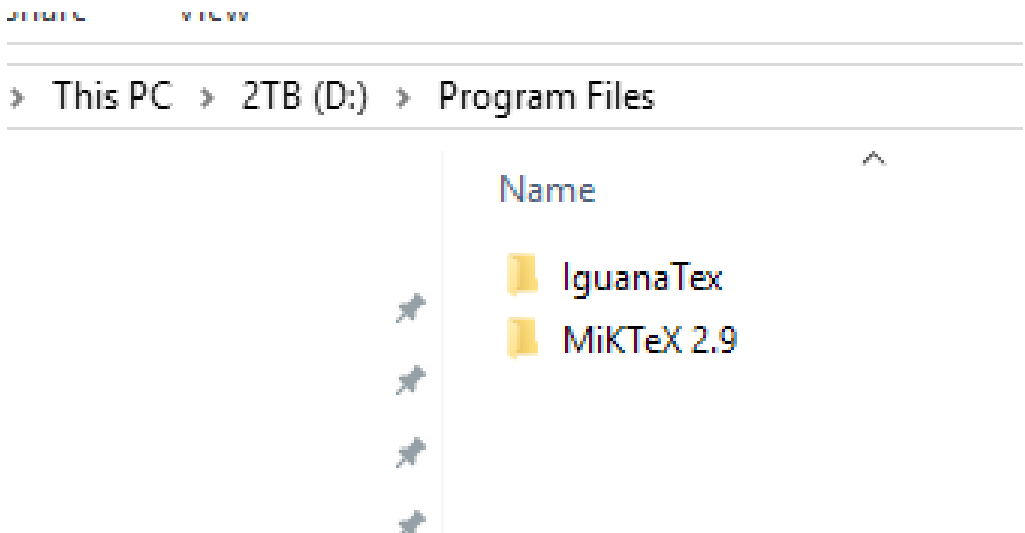
File name: basic-miktex-2.9.6615-x64.exe

Size: 210.74 MB

SHA-256: 4193d1093c686fdefe1202c2a53fd755883b91fd95c41dbd74ddac4183fec9c4

[Download](#)

**Step 3: Create a folder IguanaTex in the directory you like. Temporary files will be created in this folder.**




# Step 4: install ghostscript

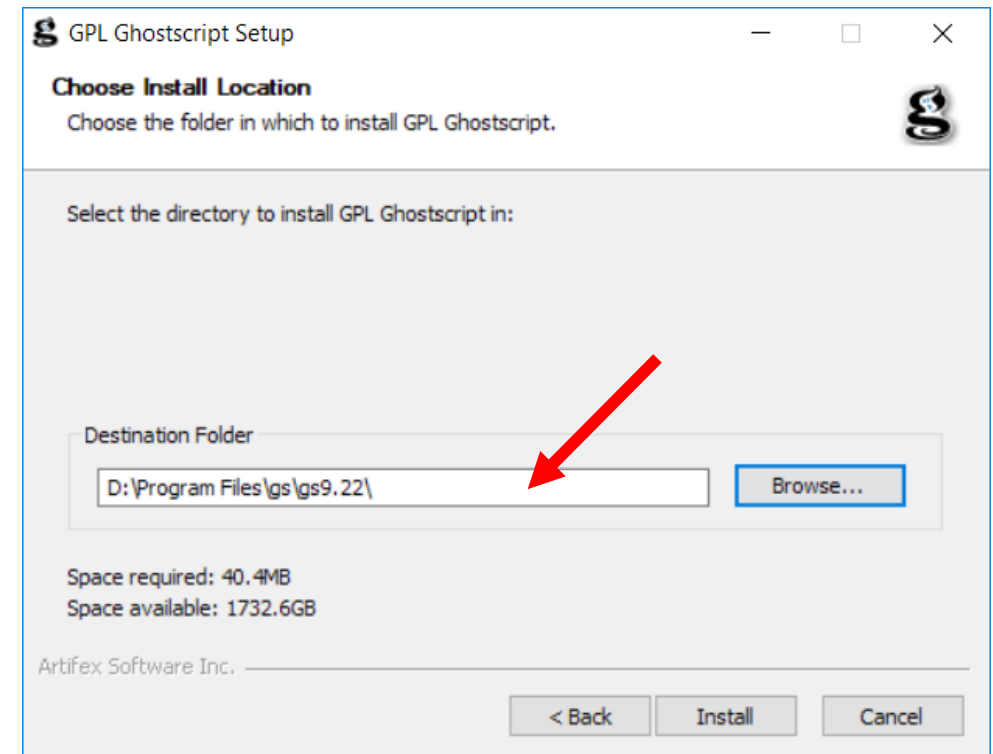
need to create a folder manually if you use a different directory other than in C:/

If you are unsure of whether you can use the AGPL release, or require a commercial license, you can contact: [Artifex Sales](#)

**PLEASE NOTE:** AGPL Ghostscript is not optimized for the stringent resource requirements of embedded environments such as laser printer or MFP applications. The Artifex Ghostscript distribution includes additional engineering work that makes this distribution commercially competitive for these environments. To obtain this distribution for evaluation at no cost, please contact: [Artifex Sales](#).

Platform \ License	 GNU Affero General Public License	 Artifex Commercial License
Ghostscript 9.22 for Windows (32 bit)	<a href="#">Ghostscript AGPL Release</a>	<a href="#">Ghostscript Commercial License</a>
Ghostscript 9.22 for Windows (64 bit)	<a href="#">Ghostscript AGPL Release</a>	<a href="#">Ghostscript Commercial License</a>
Ghostscript 9.22 for Linux x86 (32 bit)	<a href="#">Ghostscript AGPL Release</a>	<a href="#">Ghostscript Commercial License</a>
Ghostscript 9.22 for Linux x86 (64 bit)	<a href="#">Ghostscript AGPL Release</a>	<a href="#">Ghostscript Commercial License</a>
Ghostscript 9.22 Source for all platforms	<a href="#">Ghostscript AGPL Release</a>	<a href="#">Ghostscript Commercial License</a>

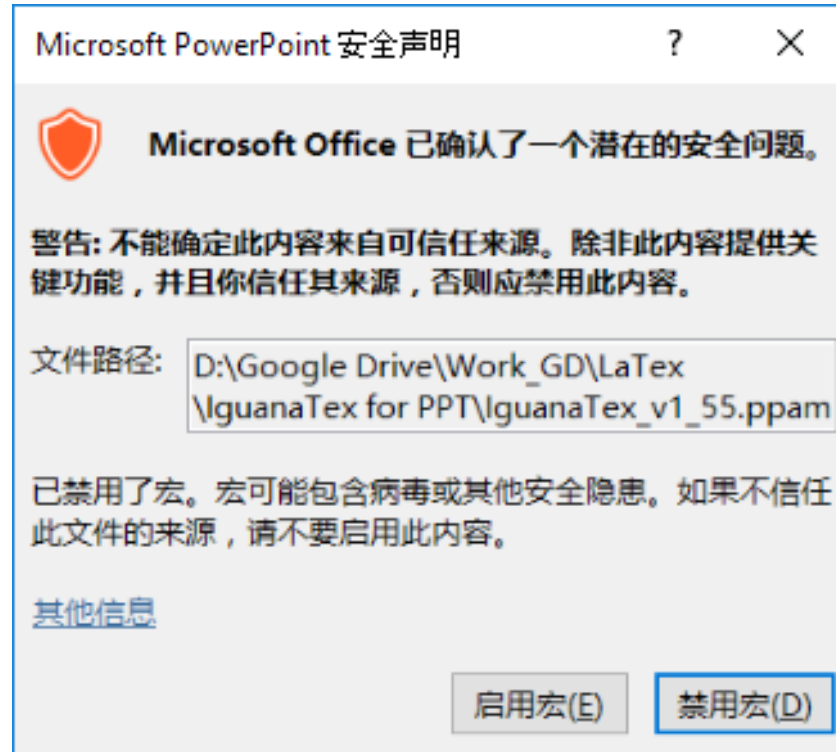
NOTE: The Linux binaries are for testing/evaluation purposes only, they do not come as installers or installable packages.



<https://www.ghostscript.com/download/gsdnld.html>

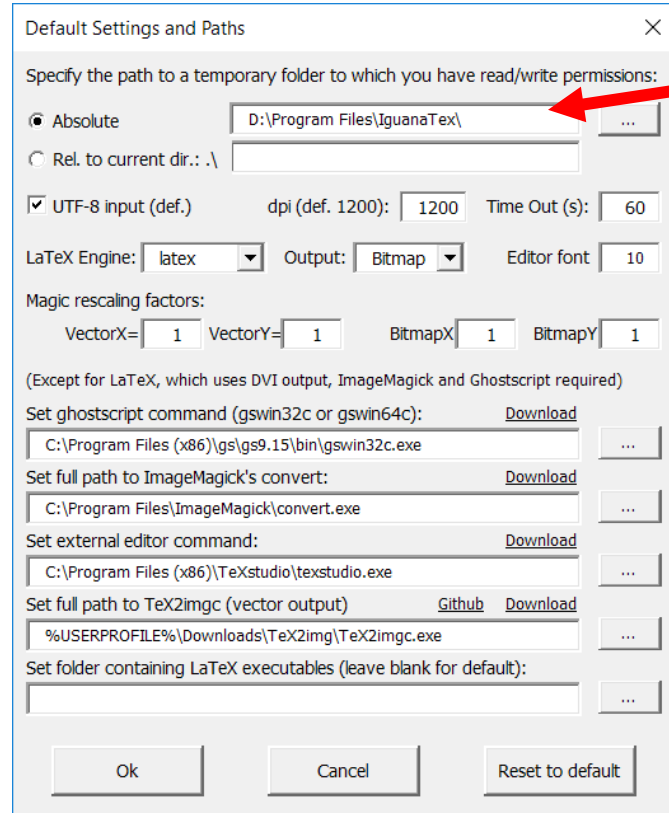


## Step 5: open “IguanaTex\_v1\_55.ppam”, and trust this macro



My OFFICE is Chinese version.  
Sorry if you don't understand it. 😊

# Step 6: type in the absolute path of the temporary folder you've created



Default Settings and Paths

Specify the path to a temporary folder to which you have read/write permissions:

☒ Absolute

☐ Rel. to current dir.: \

☒ UTF-8 input (def.) dpi (def. 1200): 1200 Time Out (s): 60

LaTeX Engine: latex Output: Bitmap Editor font: 10

Magic rescaling factors:

VectorX= 1 VectorY= 1 BitmapX= 1 BitmapY= 1

(Except for LaTeX, which uses DVI output, ImageMagick and Ghostscript required)

Set ghostscript command (gswin32c or gswin64c): [Download](#)

C:\Program Files (x86)\gs\gs9.15\bin\gswin32c.exe

Set full path to ImageMagick's convert: [Download](#)

C:\Program Files\ImageMagick\convert.exe

Set external editor command: [Download](#)

C:\Program Files (x86)\TeXstudio\textstudio.exe

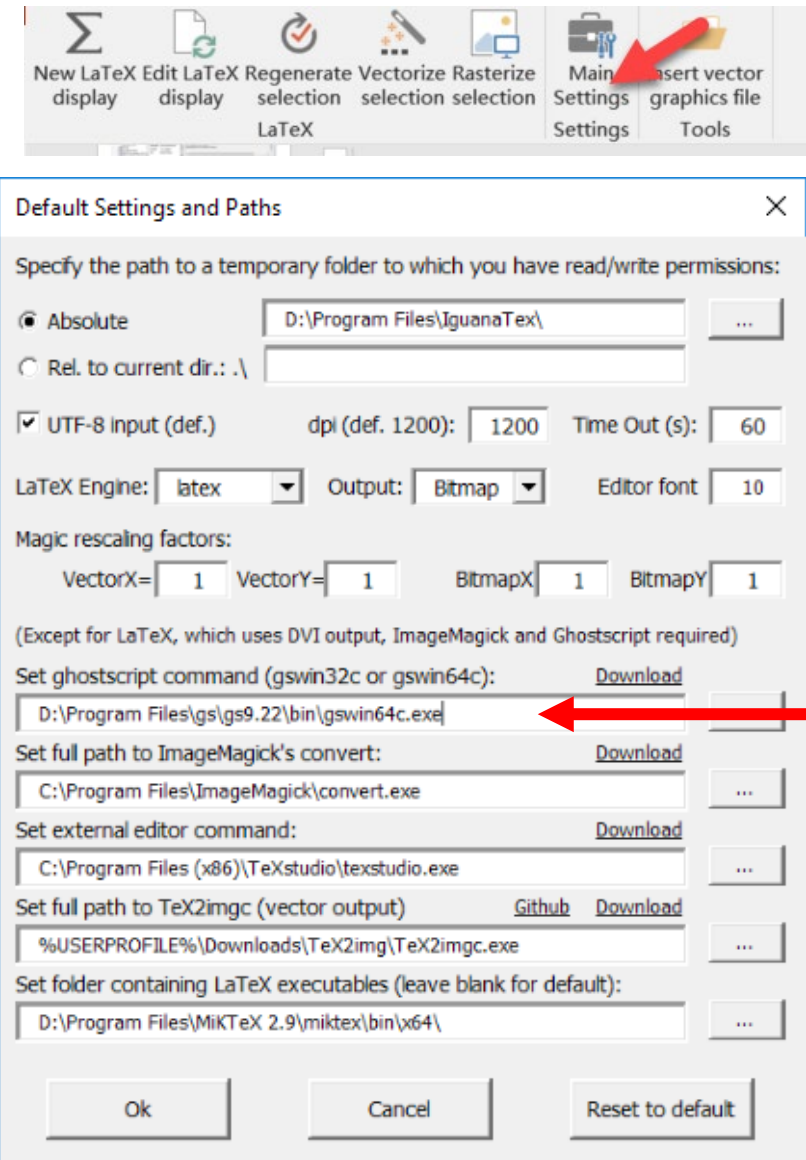
Set full path to TeX2imgc (vector output) [Github](#) [Download](#)

%USERPROFILE%\Downloads\TeX2img\TeX2imgc.exe

Set folder containing LaTeX executables (leave blank for default):

Ok Cancel Reset to default

# Step 7: locate the gswin64c.exe in “MainSettings”

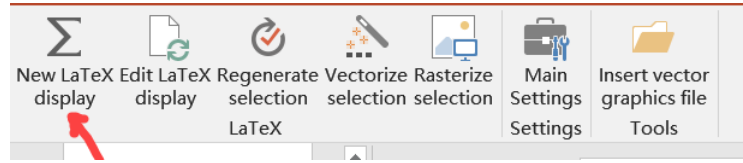


Last step

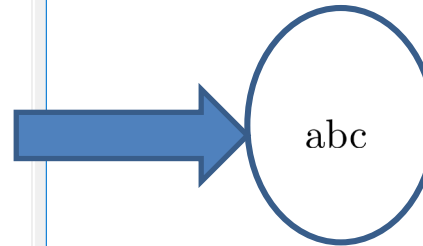
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# All done.

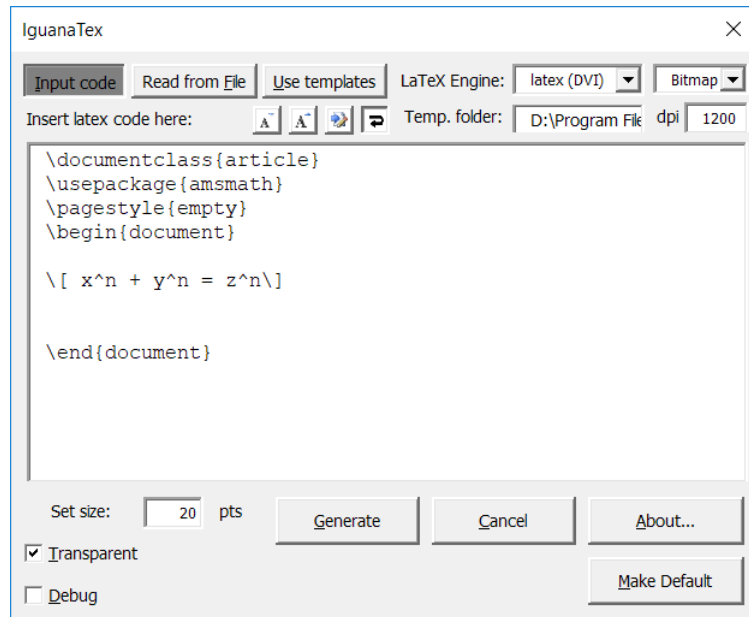
# Test #1: adding text



Adding text in LaTeX is successfully

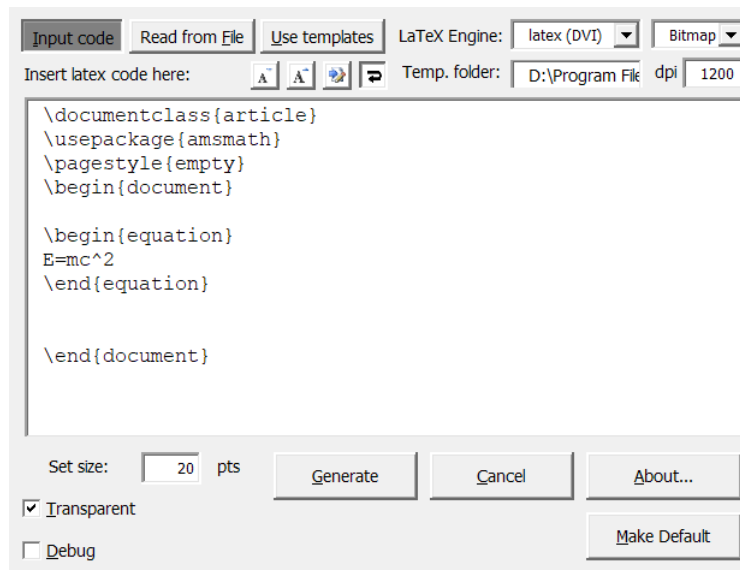


## Test #2: adding math



$$x^n + y^n = z^n$$

# Another way to display the math equation



$$E = mc^2 \quad (1)$$

[https://www.sharelatex.com/learn/Mathematical\\_expressions](https://www.sharelatex.com/learn/Mathematical_expressions)

# LaTeX Mathematics environments

## Mathematics environments [\[ edit \]](#)

LaTeX needs to know when text is mathematical. This is because LaTeX typesets maths notation differently from normal text. Therefore, special environments have been declared for this purpose. They can be distinguished into two categories depending on how they are presented:

- *text* — text formulas are displayed inline, that is, within the body of text where it is declared, for example, I can say that  $a + a = 2a$  within this sentence.
- *displayed* — displayed formulas are separate from the main text.

As math requires special environments, there are naturally the appropriate environment names you can use in the standard way. Unlike most other environments, however, there are some handy shorthands to declaring your formulas. The following table summarizes them:

Type	Inline (within text) formulas	Displayed equations	Displayed and automatically numbered equations
Environment	<code>math</code>	<code>displaymath</code>	<code>equation</code>
LaTeX shorthand	<code>\(...\)</code>	<code>\[...\]</code>	
TeX shorthand	<code>\$...\$</code>	<code>\$\$...\$\$</code>	
Comment			<code>equation*</code> (starred version) suppresses numbering, but requires <code>amsmath</code>

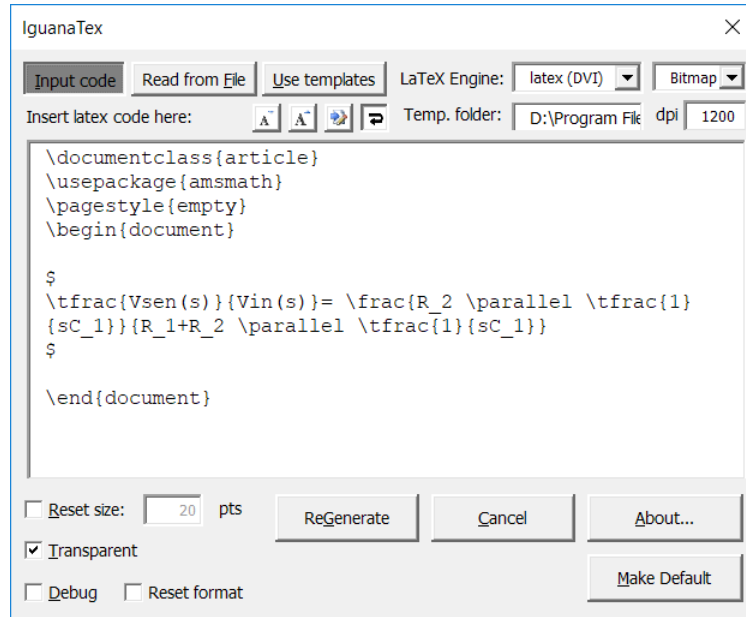
**Suggestion:** Using the `$$...$$` should be avoided, as it may cause problems, particularly with the AMS-LaTeX macros. Furthermore, should a problem occur, the error messages may not be helpful.

The `equation*` and `displaymath` environments are functionally equivalent.

<https://en.wikibooks.org/wiki/LaTeX/Mathematics>



# Comparison of equation



The screenshot shows the IguanaTex window with the following LaTeX code in the editor:

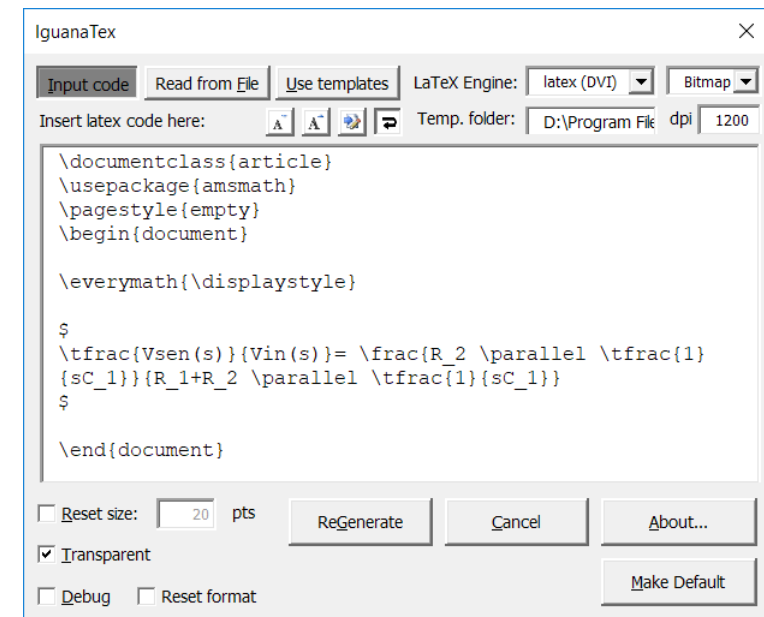
```
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}

$
\tfrac{V_{sen}(s)}{V_{in}(s)} = \frac{R_2 \parallel \tfrac{1}{sC_1}}{R_1 + R_2 \parallel \tfrac{1}{sC_1}}
$

\end{document}
```

The interface includes buttons for 'Input code', 'Read from File', 'Use templates', 'LaTeX Engine: latex (DVI)', 'Bitmap', 'Insert latex code here:', 'Temp. folder: D:\Program File', 'dpi: 1200', and a bottom panel with 'Reset size: 20 pts', 'ReGenerate', 'Cancel', 'About...', 'Transparent' (checked), 'Debug', 'Reset format', and 'Make Default'.

$$\frac{V_{sen}(s)}{V_{in}(s)} = \frac{R_2 \parallel \frac{1}{sC_1}}{R_1 + R_2 \parallel \frac{1}{sC_1}}$$



The screenshot shows the IguanaTex window with the following LaTeX code in the editor:

```
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}

\everymath{\displaystyle}

$
\tfrac{V_{sen}(s)}{V_{in}(s)} = \frac{R_2 \parallel \tfrac{1}{sC_1}}{R_1 + R_2 \parallel \tfrac{1}{sC_1}}
$

\end{document}
```

The interface is identical to the first screenshot, but the code includes `\everymath{\displaystyle}` before the equation.

$$\frac{V_{sen}(s)}{V_{in}(s)} = \frac{R_2 \parallel \frac{1}{sC_1}}{R_1 + R_2 \parallel \frac{1}{sC_1}}$$

---

***-END-***  
***Thank you!***



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# Backup slides



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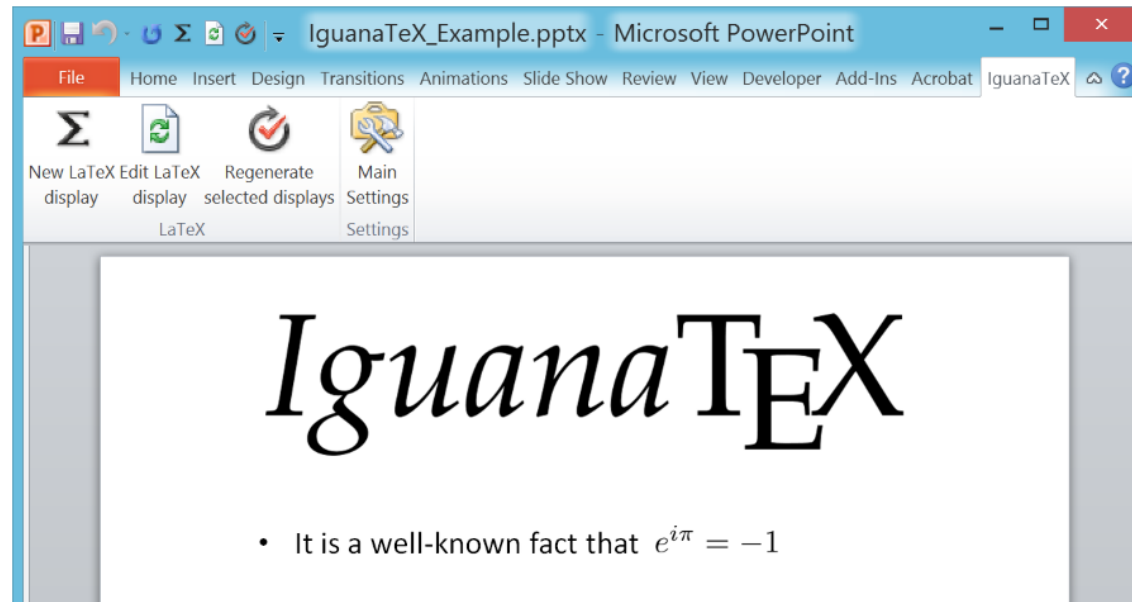
# IguanaTex



# IguanaTex

- **A Free LaTeX Add-In for PowerPoint on Windows**
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Type any valid LaTeX code, and click on Generate. IguanaTex will compile your code into LaTeX, generate an image from it and insert it into PowerPoint.



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You can also treat the equation as an ordinary PowerPoint image. For example, it can be grouped, animated, rotated, moved, and resized. Further editing of the equation will preserve all these changes.

If you need to make similar changes to multiple displays (e.g., changing latex engine, size, DPI, vector/bitmap, transparency, and simple text search & replace), select multiple displays or even multiple slides, and use "Regenerate selection" to apply all changes at once.

When you save the presentation, both the image and the LaTeX code are stored. This means that you can display your presentation on any computer, even computers on which IguanaTex is not installed (no more missing fonts!). Of course, equations can only be

# Must have 1) Power Point 2) LaTeX (MikTeX in this case) installed 3) ghostscript

---

- **System Requirements**
- Windows 2000 or later. We now also support 64-bit versions of Windows.
- *PowerPoint*: IguanaTex has been tested with PowerPoint 2010, 2013, 2016 (both 32 and 64 bit), and PowerPoint 2003. It is likely to also work in PowerPoint 2000 and 2007.
- *LaTeX* (can be downloaded from [MiKTeX](#) or [TeX Live](#))
- (Optional but recommended): [GhostScript](#) and [ImageMagick](#), required to use the optional LaTeX to PDF to PNG conversion.
- (Optional but recommended): [TeX2img](#), used for vector graphics output.

# Now, try ghostscript 32bit

## Frequently Asked Questions about IguanaTex

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Quick links: [\[Index\]](#) [\[Download\]](#) [\[Google Group\]](#)

The following are some common issues and problems with [IguanaTex](#) and how to solve them.

[Error messages](#)

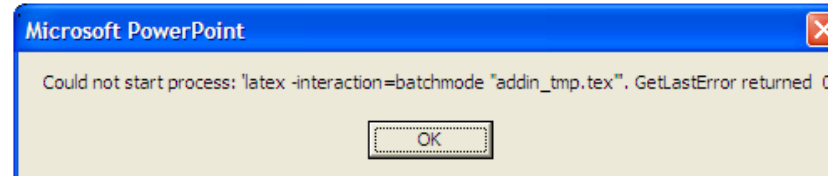
[Other bugs](#)

[How do I...](#)

[System requirements](#)

### Error messages

**Q:** When pressing the Generate button in IguanaTex, I get the error message: *Could not start process: 'latex -interaction=batchmode "addin\_tmp.tex"'. GetLastError returned 0.*



**A:** This problem occurs when IguanaTex is unable to locate LaTeX in order to compile your Latex file. To verify that this is indeed the problem, click on Start, then on Run, then type `cmd` and press Enter. In the new window type `latex` and press Enter. You should see the Latex command prompt. If instead you receive an error message such as *'latex' is not recognized as an internal or external command*, then there is a problem with your installation of LaTeX. Verify that you have LaTeX installed and that the version you are using is still supported by its developers. Reinstalling the latest version if necessary should resolve most problems. On Windows, the most common LaTeX installations are [MikTeX](#) and [TeX Live](#).

Default Settings and Paths

Specify the path to a temporary folder to which you have read/write permissions:

☒ Absolute  ...

☐ Rel. to current dir.: .\

☒ UTF-8 input (def.) dpi (def. 1200):  Time Out (s):

LaTeX Engine:  Output:  Editor font:

Magic rescaling factors:

VectorX=  VectorY=  BitmapX=  BitmapY=

(Except for LaTeX, which uses DVI output, ImageMagick and Ghostscript required)

Set ghostscript command (gswin32c or gswin64c): [Download](#)

...

Set full path to ImageMagick's convert: [Download](#)

...

Set external editor command: [Download](#)

...

Set full path to TeX2imgc (vector output) : [Github](#) [Download](#)

...

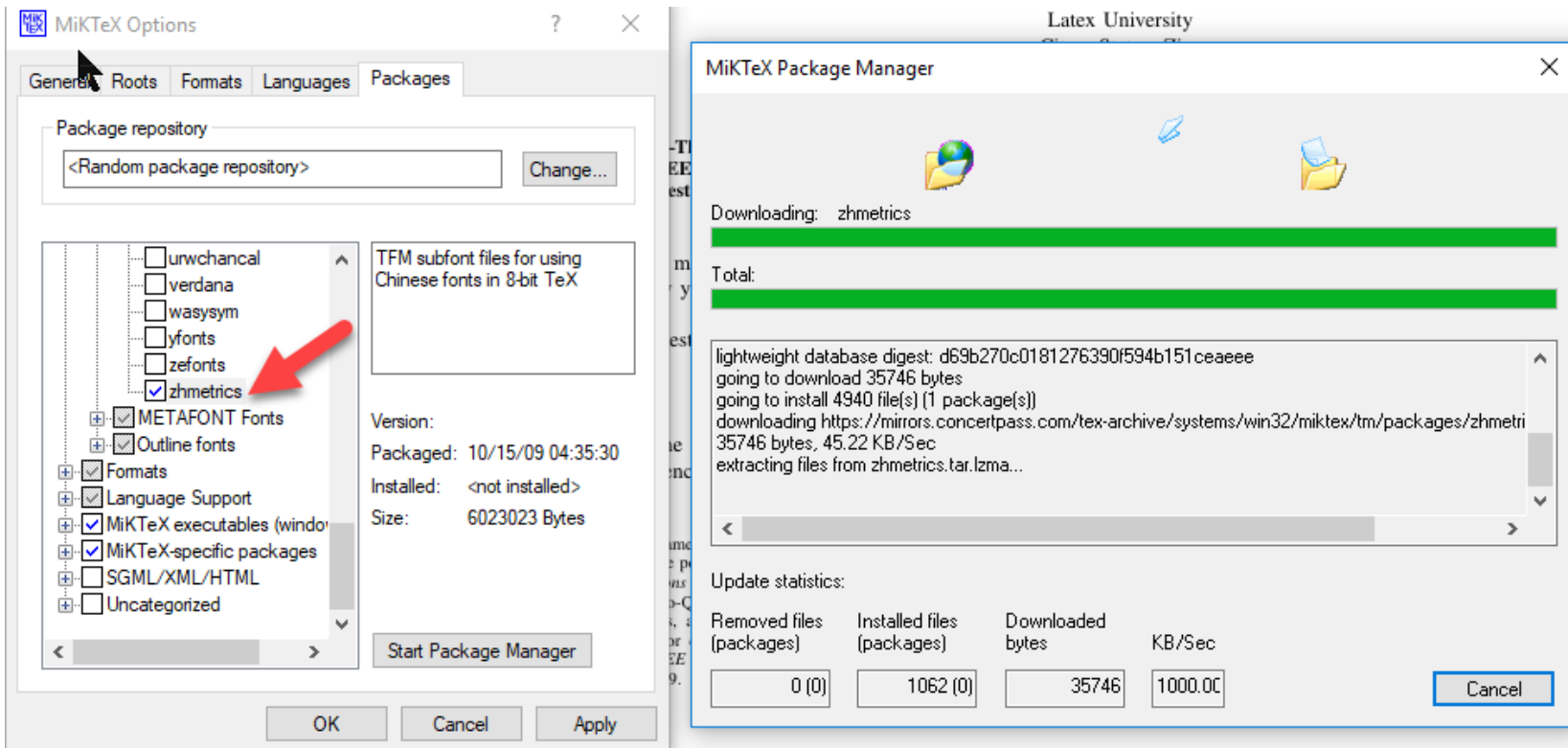
Set folder containing LaTeX executables (leave blank for default):

...

Ok Cancel Reset to default



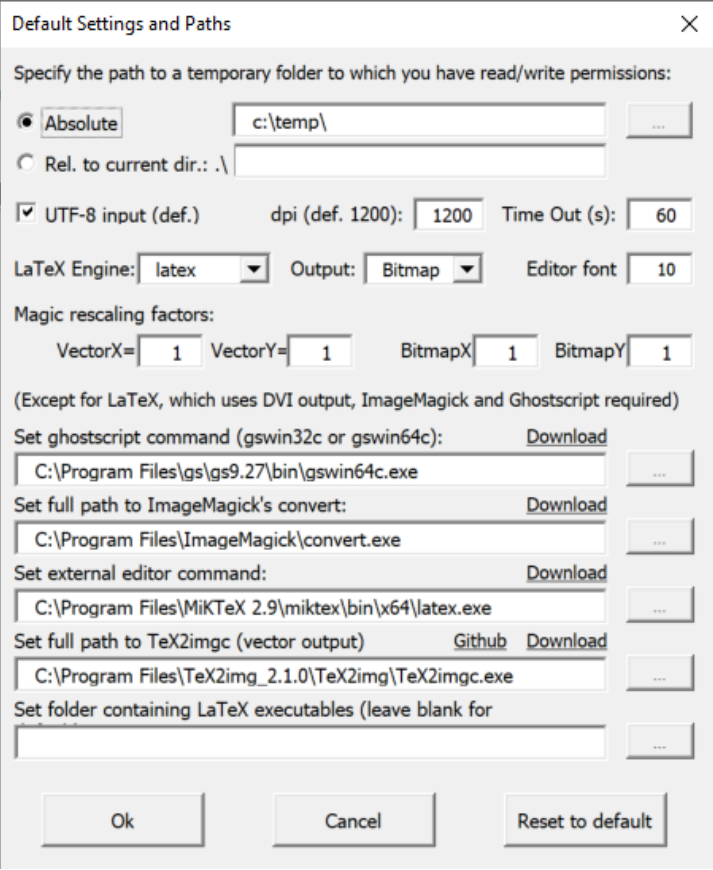
# Add the package “zhmetrics” in MiKTeX



# Tex2Img - not working 5/6/2019

C:\Program Files\MiKTeX 2.9\miktex\bin\x64

<https://github.com/abenori/TeX2img/issues/4>



Default Settings and Paths

Specify the path to a temporary folder to which you have read/write permissions:

☒ Absolute ☐ Rel. to current dir.: .\

☒ UTF-8 input (def.) dpi (def. 1200):  Time Out (s):

LaTeX Engine:  Output:  Editor font

Magic rescaling factors:

VectorX=  VectorY=  BitmapX=  BitmapY=

(Except for LaTeX, which uses DVI output, ImageMagick and Ghostscript required)

Set ghostscript command (gswin32c or gswin64c): [Download](#)

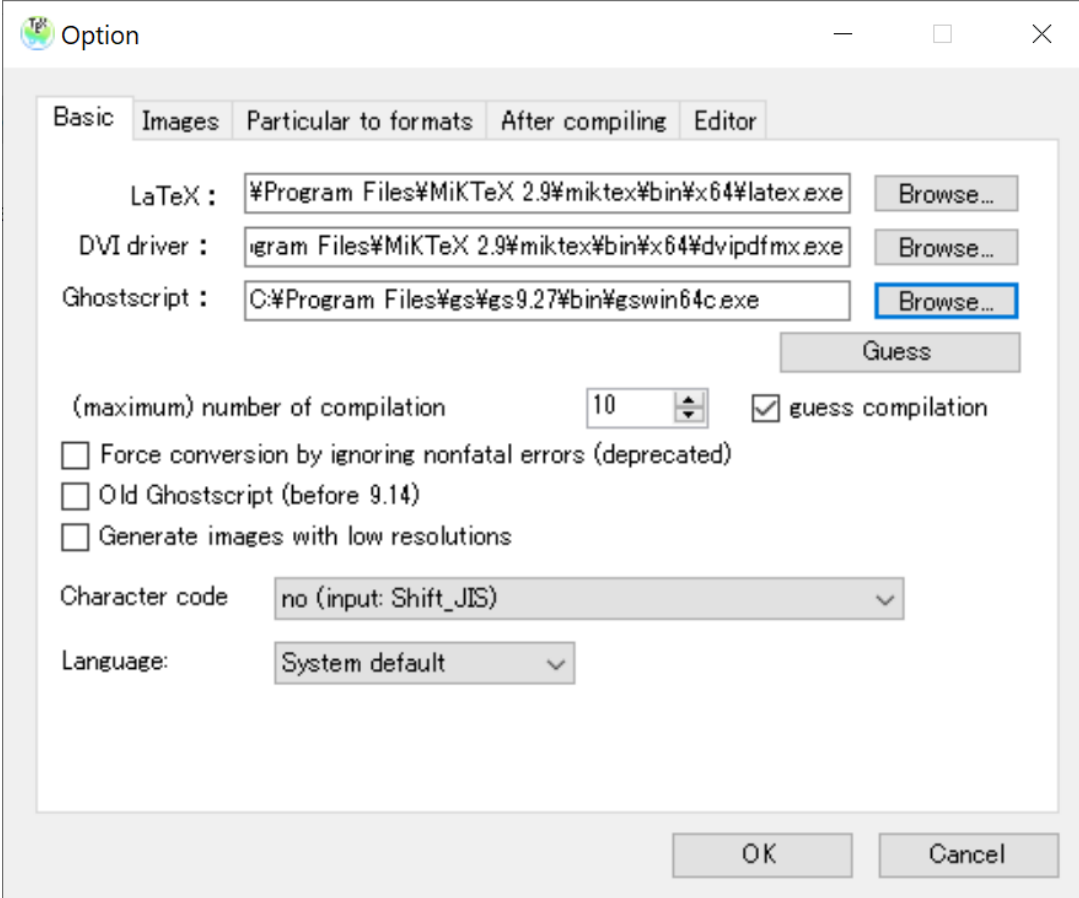
Set full path to ImageMagick's convert: [Download](#)

Set external editor command: [Download](#)

Set full path to TeX2imgc (vector output) [Github](#) [Download](#)

Set folder containing LaTeX executables (leave blank for

Ok Cancel Reset to default



Option

Basic Images Particular to formats After compiling Editor

LaTeX :  [Browse...](#)

DVI driver :  [Browse...](#)

Ghostscript :  [Browse...](#)

[Guess](#)

(maximum) number of compilation  ☒ guess compilation

☐ Force conversion by ignoring nonfatal errors (deprecated)

☐ Old Ghostscript (before 9.14)

☐ Generate images with low resolutions

Character code

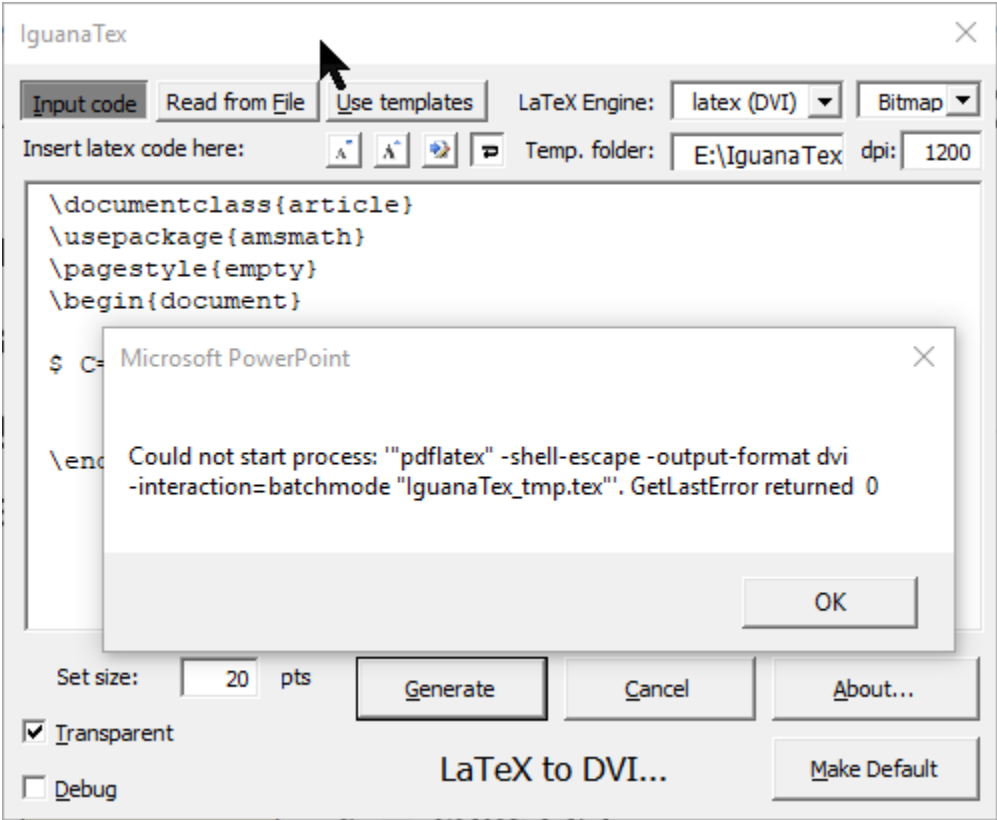
Language:

OK Cancel

---

**Other installations are  
optional**

# Error



- **Installation:**
- Load the add-in:  
in "File" > "Options" > "Add-Ins" > "Manage:", choose "PowerPoint Add-Ins" then "Go...", then click "Add New", select the .ppam file in the default Add-In folder or in the folder where you downloaded it, then "Close"
- Create and set a temporary file folder:  
IguanaTex needs access to a folder with read/write permissions to store temporary files.
  - The default is "C:\Temp\". If you have write permissions under "C:\", create the folder "C:\Temp\". You're all set.
  - If you cannot create this folder, choose/create a folder with write permission at any other location. In the IguanaTex tab, choose "Main Settings" and put the path to the folder of your choice. You can also use a relative path under the presentation's folder (e.g., ".\" for the presentation folder itself).
- (Optional) Install and set path to GhostScript and ImageMagick:  
To use the PDF to PNG conversion (i.e., with pdflatex, xelatex and lualatex) instead of the default DVI to PNG one, you need to install [GhostScript](#) and [ImageMagick](#) and set the appropriate full paths to gswin32c.exe/gswin64c.exe and convert.exe in the "Main Settings" window.
- The code assumes that you have LaTeX installed and that the "pdflatex" command can be found by the system.



- <https://www.ghostscript.com/download/gsdnld.html>

## Ghostscript Downloads



### Which license is right for me?

For example, for personal use, use without redistribution, and use with no technical support the [GNU Affero Public License \(AGPL\)](#) download is your choice.

If you are unwilling/unable to abide by the terms of the [AGPL](#) (for instance, if you wish to redistribute these software packages or derivations thereof commercially), or if you wish to pay for technical support, you will need to acquire a [commercial license from Artifex](#).

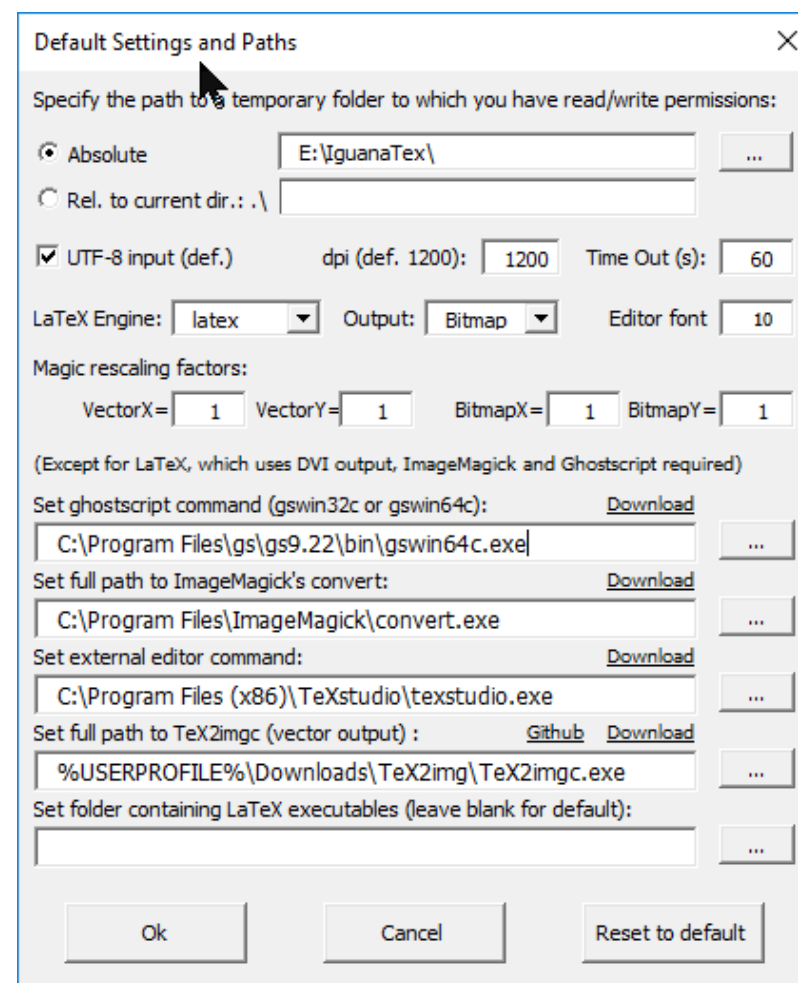
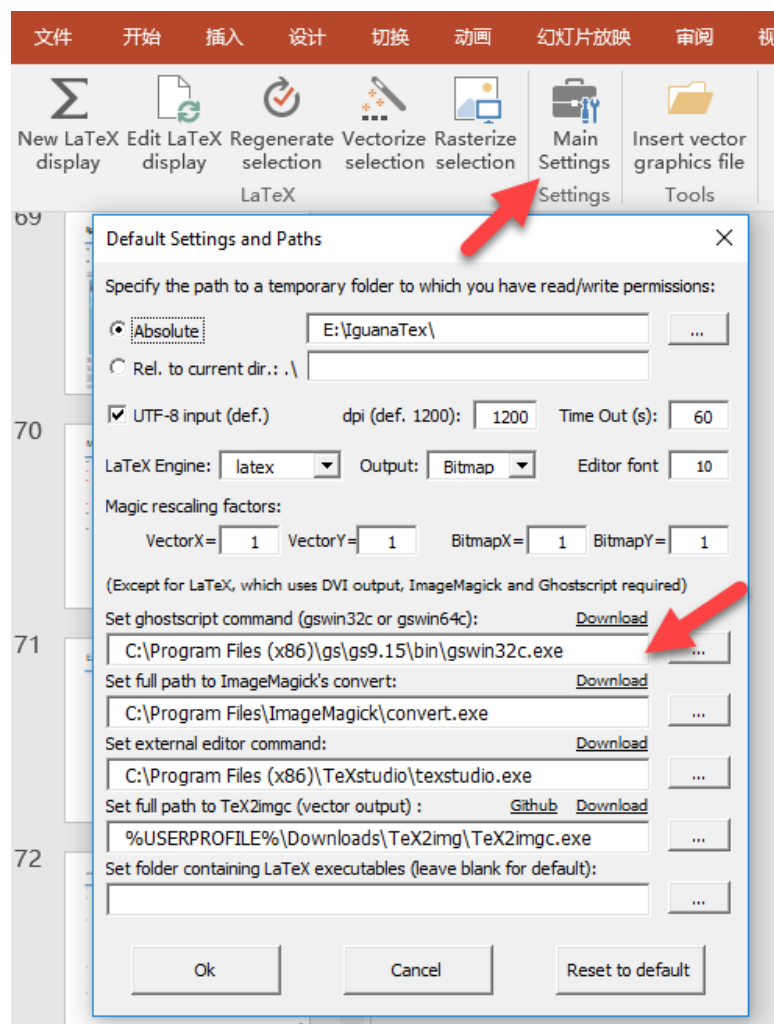
If you are unsure of whether you can use the AGPL release, or require a commercial license, you can contact: [Artifex Sales](#)

**PLEASE NOTE:** AGPL Ghostscript is not optimized for the stringent resource requirements of embedded environments such as laser printer or MFP applications. The Artifex Ghostscript distribution includes additional engineering work that makes this distribution commercially competitive for these environments. To obtain this distribution for evaluation at no cost, please contact: [Artifex Sales](#).

<div>License</div> <div>Platform</div>	<div>AGPL 3</div> <div>GNU Affero General Public License</div>	<div>Artifex</div> <div>Artifex Commercial License</div>
Ghostscript 9.22 for Windows (32 bit)	Ghostscript AGPL Release	Ghostscript Commercial License
Ghostscript 9.22 for Windows (64 bit)	Ghostscript AGPL Release	Ghostscript Commercial License
Ghostscript 9.22 for Linux x86 (32 bit)	Ghostscript AGPL Release	Ghostscript Commercial License
Ghostscript 9.22 for Linux x86 (64 bit)	Ghostscript AGPL Release	Ghostscript Commercial License

> This PC > Local Disk (C:) > Program Files > gs > gs9.22 > bin

Name	Date modified	Type	Size
gsdll64.dll	10/4/2017 11:22 AM	Application extens...	18,107 KB
gsdll64.lib	10/4/2017 11:22 AM	Altium Library	8 KB
gswin64.exe	10/4/2017 11:23 AM	Application	169 KB
gswin64c.exe	10/4/2017 11:23 AM	Application	161 KB



# Install ImageMagick

## Windows Binary Release

ImageMagick runs on Windows 10 (x86 & x64), Windows 8 (x86 & x64), Windows 7 (x86 & x64), Windows Server 2012, Windows XP (x86) with Service Pack 3, Windows Vista (x86 & x64) with Service Pack 2, Windows Server 2003 (x86 & x64) with Service Pack 2 (verify MSXML6 is present), Windows Server 2003 R2 (x86 & x64), Windows Server 2008 (x86 & x64) with Service Pack 2, and Windows Server 2008 R2 (x64).

The amount of memory can be an important factor, especially if you intend to work on large images. A minimum of 512 MB of RAM is recommended, but the more RAM the better. Although ImageMagick runs well on a single core computer, it automagically runs in parallel on multi-core systems reducing run times considerably.

The Windows version of ImageMagick is self-installing. Simply click on the appropriate version below and it will launch itself and ask you a few installation questions. Versions with *Q8* in the name are 8 bits-per-pixel component (e.g. 8-bit red, 8-bit green, etc.), whereas, *Q16* in the filename are 16 bits-per-pixel component. A *Q16* version permits you to read or write 16-bit images without losing precision but requires twice as much resources as the *Q8* version. Versions with *dll* in the filename include ImageMagick libraries as [dynamic link libraries](#). Unless you have a Windows 32-bit OS, we recommend this version of ImageMagick for 64-bit Windows:

Version	HTTP	FTP	Description
ImageMagick-7.0.7-11-Q16-x64-dll.exe	<a href="#">download</a>	<a href="#">download</a>	Win64 dynamic at 16 bits-per-pixel component

Or choose from these alternate Windows binary distributions:

Version	HTTP	FTP	Description
ImageMagick-7.0.7-11-Q16-x64-static.exe	<a href="#">download</a>	<a href="#">download</a>	Win64 static at 16 bits-per-pixel component
ImageMagick-7.0.7-11-Q8-x64-dll.exe	<a href="#">download</a>	<a href="#">download</a>	Win64 dynamic at 8 bits-per-pixel component
ImageMagick-7.0.7-11-Q8-x64-static.exe	<a href="#">download</a>	<a href="#">download</a>	Win64 static at 8 bits-per-pixel component
ImageMagick-7.0.7-11-Q16-HDRI-x64-dll.exe	<a href="#">download</a>	<a href="#">download</a>	Win64 dynamic at 16 bits-per-pixel component with <a href="#">high dynamic-range</a>





# Update the directory of both ghostscript and ImageMagick

Default Settings and Paths

Specify the path to a temporary folder to which you have read/write permissions:

☒ Absolute  ...

☐ Rel. to current dir.: .\

☒ UTF-8 input (def.) dpi (def. 1200):  Time Out (s):

LaTeX Engine:  Output:  Editor font:

Magic rescaling factors:

VectorX=  VectorY=  BitmapX=  BitmapY=

(Except for LaTeX, which uses DVI output, ImageMagick and Ghostscript required)

Set ghostscript command (gswin32c or gswin64c): [Download](#)

...

Set full path to ImageMagick's convert: [Download](#)

...

Set external editor command: [Download](#)

...

Set full path to TeX2imgc (vector output) : [Github](#) [Download](#)

...

Set folder containing LaTeX executables (leave blank for default):

...

Ok Cancel Reset to default

Default Settings and Paths

Specify the path to a temporary folder to which you have read/write permissions:

☒ Absolute  ...

☐ Rel. to current dir.: .\

☒ UTF-8 input (def.) dpi (def. 1200):  Time Out (s):

LaTeX Engine:  Output:  Editor font:

Magic rescaling factors:

VectorX=  VectorY=  BitmapX=  BitmapY=

(Except for LaTeX, which uses DVI output, ImageMagick and Ghostscript required)

Set ghostscript command (gswin32c or gswin64c): [Download](#)

...

Set full path to ImageMagick's convert: [Download](#)

...

Set external editor command: [Download](#)

...

Set full path to TeX2imgc (vector output) : [Github](#) [Download](#)

...

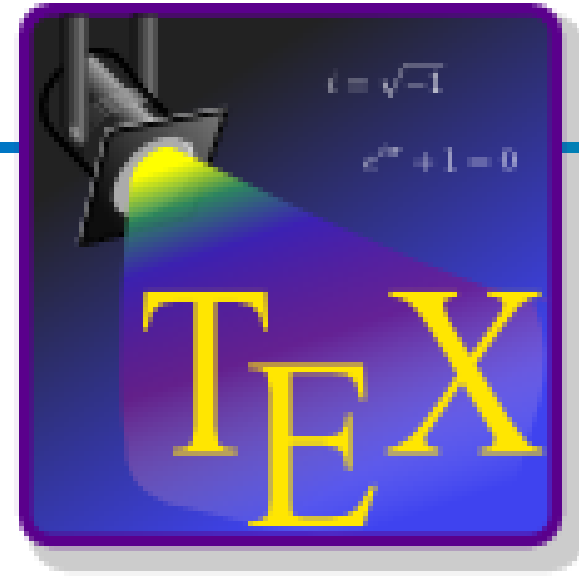
Set folder containing LaTeX executables (leave blank for default):

...

Ok Cancel Reset to default

# TeXstudio

- <https://www.texstudio.org/>



A pixelated, low-resolution illustration of a laptop. The laptop is open, and its screen displays the text 'LTspice' in a bold, pink font with a white outline. The background of the screen and the entire image has a green and brown pixelated pattern. The laptop itself is drawn with thick black outlines.

**LTspice**