

Template presentation for the Ithaca Beamer Theme

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In collaboration with Colaborator 1 and Colaborator 2

Journal of Cool Beans [arXiv:1234.5678]

Outline

1 Features

1.1 Main features

1.2 Blocks

1.3 Colors

1.4 Mix and match

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2 Hints and tips

- 2.1 Absolute placement
- 2.2 Columns and tables
- 2.3 Equations
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Ithaca Beamer Theme 2013

Main features

The Ithaca Beamer theme includes most of the features found in Flip's theme and adds some of its own. This features include:

- A flat, consistent look.
- Section and subsection shown at the top bar.
- Option for large 'slide number / total slides' on top bar.
- Option for watermark on top of a gradient background.
- Option to hide the footline and change bullet shape.
- Choice between a grey and a yellowish background.

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Flip's vs. Ithaca Beamer Theme

The Ithaca theme was created out of Flip's theme to have a Beamer template that has a closer alignment to the **Cornell Brand Book**. It uses the official Cornell logo, and color palette.

Different options for different talks

Because one size may not fit all

This slide showcases all the options included in the Ithaca beamer theme. The options chosen to create this slide are:

- `nobigpagenumber`. For a more discrete page counter.
- `watermark=BG_both`. A nice not-too-distracting background. But, of course you can change this to whatever you want!
- `nofootline`. If you feel like you need more space, you can always eliminate the footline.
- `bullet=square`. For an even “flatter” look.
- `grey`. I prefer the yellowish background as it looks warmer. But a neutral grey is always a good choice.

Predefined theorem environments

Using blocks for theorems and stuff

The following $\mathcal{A}\mathcal{M}\mathcal{S}$ - $\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ environments are already predefined:

Theorem-like environments

The environments theorem, proposition, conjecture, claim, algorithm, axiom and criterion produce an alert block.

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Example-like environments

Finally, the environments example, remark, summary, observation, conclusion and acknowledgement produce an example block.

Ithaca color palette

Because life is full of color

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They can be called by their PMS names. Keep in mind that printed and on-screen colors may look very different.

Cornell Brand Book colors

Official PMS names

Primary Color Palette



187



Cool Grey 11

Secondary Color Palette



403



warm grey 3



5635



5845



7458



7493



7462



7463



032



144



369



process blue

The color wheel

Primary, secondary and tertiary colors

The Ithaca Beamer theme also provides the 12 primary, secondary and tertiary colors of the color wheel.

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To use them just call them by name, they are:

Color wheel names



red



orange



yellow



chartreuse



green



spring green



cyan



azure



blue



violet



magenta



rose

The Y color wheel

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Y version of the Color wheel



Y red



Y green



Y blue



Y orange



Y spring green



Y violet



Y yellow



Y cyan



Y magenta



Y chartreuse



Y azure



Y rose

C version of the color wheel

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Color changing commands

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`\alert`-type commands

`\alert`

`\Alert`

`\ALERT`

`\eg`

`\Eg`

`\EG`

`\comment`

`\Comment`

`\COMMENT`

The 'comment' styles are automatically footnote-sized.

Mix and match

Mixing Ithaca with other Beamer themes

The Ithaca theme was designed with maximal compatibility and flexibility in mind. It can be combined in a satisfactory way with several other beamer themes.

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It consists of:

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- The **flat** inner theme
- The **BigRed** color theme

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It consists of:

- The **solidinfolines** outer theme
- The **flat** inner theme
- The **BigRed** color theme

For maximal compatibility, the BigRed color theme is split into the **bear** outer color theme and the **carnelian** inner color theme.

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You may want to try some combinations of your own. Some general advices in this regard are:

- When using beamer color themes, keep in mind that you can obtain different results by changing the order in which you load the packages. Some themes (for example **Hannover**) look better when you load the carnelian color theme **first**.
- The **solidinfolines** outer theme depends on the **bear** color theme to get the colors for the headline and footline. This colors are left blank in the default theme, and can lead to unpleasent results if it's not used carefully.

Absolute placement

This slide demonstrates

- **absolute placement** of images using the `put` command in the `picture` environment.
- Note the overlap. Further, note that the particular depend on where the picture is defined.

If you define the picture at the top of the slide, then it will have fixed coordinates (using the `[t]` alignment). The cost is that the image is then behind all the text.

- Beamer respects `png` and `pdf` transparencies.

Image:

<http://www.smbc-comics.com/index.php?db=comics&id=2109>

Some alternatives for placing images: `http:`

`//www.texample.net/tikz/examples/transparent-png-overlay/`

Absolute placement

This slide does

- absolute placement using the `put` command in the `pic` language.
- No `fill` command. Note that the particular depend on whether the image is placed in front or behind the slide. If you don't specify `front` or `back` for the slide, then it will have fixed coordinates (e.g. `put "cat" at (10,10)`). The cost is that the image is then behind the slide.
- Beamer requires `transparencies`.

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Columns

Sometimes it's useful to split the screen

Here's a column where I can write a bunch of things.

There are all sorts of things I can do in paragraph form.

- Here's a column
- where I can itemize
- a bunch of things.

Blocks

...work in here too.

Including a table

Here's how you include a table.

Channel	Expt.	Bound (90% CL)	SM Prediction
$B_s^0 \rightarrow \mu^+ \mu^-$	CDF II	$< 4.7 \times 10^{-8}$	$(4.8 \pm 1.3) \times 10^{-9}$
$B_d^0 \rightarrow \mu^+ \mu^-$	CDF II	$< 1.5 \times 10^{-8}$	$(1.4 \pm 0.4) \times 10^{-10}$
$B_s^0 \rightarrow \mu^+ e^-$	CDF II	$< 2.0 \times 10^{-7}$	≈ 0
$B_d^0 \rightarrow \mu^+ e^-$	CDF II	$< 6.4 \times 10^{-8}$	≈ 0

Some equations

As if you didn't think Beamer could typeset equations...

$$\left(\frac{\Lambda}{m}\right)^b = \left(\frac{\Lambda_L}{m}\right)^{b_L} \Rightarrow \left(\frac{\Lambda_{N,F}}{m}\right)^{3N-F} = \left(\frac{\Lambda_{N,F-1}}{m}\right)^{3N-(F-1)}$$

$$G_k(z, z') = \frac{(R')^2}{R} G_y(x, x') = \frac{(R')^2}{R} \frac{xx'}{y} \frac{T(x, y)T(x', y)}{S(wy, y)}$$

$$f_c = \sqrt{\frac{1-2c}{1-(R/R')^{1-2c}}}$$

Design Notes

Watermarking

- Watermarks need to really be **transparent** or else the background won't show through, e.g. if your background color is not plain white. Fortunately, PGF respects png transparency so watermark images can be saved as png images. Alternately, if you have a nice vector representation in TikZ, you can use the “opacity” option to make it semi-opaque.
- The second problem with watermarks is that even once you have a transparent image, how do you stick it **behind** the main text of each slide? This is surprisingly subtle. The solution is to put all watermarks in the “sidebar right” region controlled by the outer theme style. Anything placed here will remain **behind** the main text of the screen.

Miscellaneous

- Use `\only<2>` to show something for one overlay only
- Can also use `<2->`
- For example, you can highlight a word after the first overlay
- If you use `\uncover<3->` you get a ... see?
- Protip: use `\textbackslash` to get a backslash

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Problems and Kludges

Things to work on

- There seems to be a bug in Beamer where the footnote color (defined using `setbeamercolor{footnote}` and `setbeamercolor{footnote mark}`) contaminates the normal text color. For now I suggest not using footnotes. They're of questionable use in a talk, anyway.
- Even though comment text is footnote-sized, it still has normal text line spacing. The `setspace` environment can fix this, but it forces a newline and it seems to make footnotes disappear.

Problems and Kludges

XeLaTeX, LuaLaTeX

XeLaTeX doesn't allow one to use `setbeamertemplate[background canvas]` multiple times (e.g. to have one slide with a different background). A fix is to include `\def \pgfsysdriver{pgfsys-dvipdfmx.def}` before the `documentclass`, but this ends up breaking the arrows pointing to nodes.

In principle, LuaLaTeX can solve this, but that also requires some work since it only looks at Open Type Fonts.

<http://tex.stackexchange.com/questions/29497/>

`xelatex-preventing-beamer-from-using-different-backgrounds`

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I've tried to maintain lots of comments in the `.tex` and `.sty` files to help other template designers. If you have something to say about them, Please don't hesitate to contact me!

Extra page: Additional hints

Look, it doesn't add to the total page count!

- Be sure to turn off any auto-notifiers (e.g. GMail)
- Don't ever go over time.
- TikZ transparency trick: <http://www.texample.net/tikz/examples/transparent-png-overlay/>
- Use `addtocounter{framenumbers}{-1}` for extra slides (like this one) to prevent it from screwing up the page numbering.