Presentations

Tony Mendes

Cal Poly San Luis Obispo

1. Use `beamer` in `\documentclass`, **not** `article`.

2. Create slides with code in a `frame` environment.

Tips for good design

1. Include `\frametitle{title}` in *every* frame.

2. Put `\usetheme{metropolis}` in the preamble.

3. Use `\uncover<n-m>` to reveal content on slides n–m.

Tips for good design

1. Include `\frametitle{title}` in *every* frame.

2. Put `\usetheme{metropolis}` in the preamble.

3. Use `\uncover<n-m>` to reveal content on slides n–m.

4. Use uncover sparingly.

Tips for good design

1. Include `\frametitle{title}` in *every* frame.

2. Put `\usetheme{metropolis}` in the preamble.

3. Use `\uncover<n-m>` to reveal content on slides n–m.

4. Use uncover sparingly. Do not overuse it!

Tips for good design

1. Include `\frametitle{title}` in *every* frame.

2. Put `\usetheme{metropolis}` in the preamble.

3. Use `\uncover<n-m>` to reveal content on slides n–m.

4. Use uncover sparingly. Do not overuse it! Please!

The Fundamental Theorem of Algebra

Theorem

Every polynomial $f(x) = a_n x^n + \cdots + a_0$ has a root in $\mathbb{C}$.
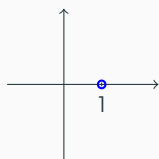
Proof.

When $r \approx 0$, we see $f(re^{i\theta}) \approx a_0$.

When r is big, we see $f(re^{i\theta}) \approx a_n r^n e^{in\theta}$.   ($n$ giant circles)
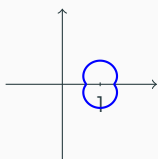
So as r changes from 0 to ∞, there are values r, θ which make $f(re^{i\theta})$ cross the origin in the complex plane. $\qquad\square$
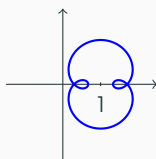
$f(re^{i\theta})$ for $\theta \in [0, 2\pi)$ shown on the complex plane:
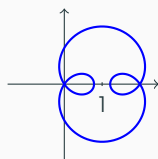

| $r = .1$ | $r = .5$ | $r = .75$ | $r \approx 0.868837\ldots$ |

Common presentation mistakes

- Too much content!

- Lots of text/math on a slide.

- Rapid speech without pauses.

- No images of cute puppies.

- Lots of uncovering (a striptease).

BibTeX can create a bibliography

To print a .bib entry without \citeing, use \nocite

📄 Beamer manual.
www.ctan.com/pkg/beamer.
Accessed February 2017.

📄 Metropolis theme manual.
www.ctan.org/pkg/beamertheme-metropolis.
Accessed February 2017.

📄 Theme style and color examples.
mpetroff.net/files/beamer-theme-matrix.
Accessed February 2017.