

# Org + Knitr + R + Beamer

Prasad Chalasani

February 1, 2012

# Get knitr to work with Org-mode and Beamer!

- The source for this file is `org_knitr_beamer.org`
- To use a `knitr` code-chunk in an `org-mode` `beamer` document, enclose it between `#+begin_LATEX` and `#+end_LATEX`
- Any special `latex` headers you need, insert them at the start of the `.org` document, prefixed by `#+latex_header:`
- Export the `.org` file to `.tex` the usual way ( `M-x org-export-as-latex` or `C-c-e 1`): *the knitr chunks are unaffected by this.*
- Rename the `.tex` file to `.Rnw`
- In R, `knit()` the `.Rnw` file: `knit("~/Path/To/file.Rnw")` to convert it to a `.tex` file
- Process the `.tex` file to `.pdf` using `pdflatex` in the usual way.

`.org -> .tex -> .Rnw -> .tex -> .pdf` in one step!

- Copy the contents of file `org_knitr.el` from this repository into your emacs init file (either your `~/.emacs` file or your `~/.emacs.d/user/my_init.el` file).
- Reload the emacs init file
- Place cursor in the `.org` file, hit F5
- Or bind your own keyboard short-cut to the `ess-knitr-weave` function.

# Use knitr to make a 2-plot slide

Text is nice but let's see what happens if we make a couple of plots in our chunk:

