

# Overview

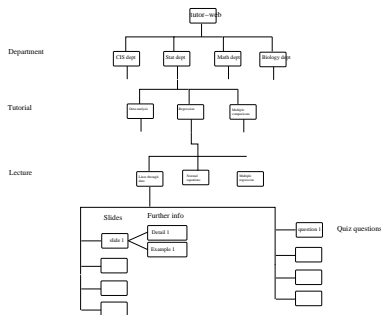
(TEST005.0: Introduction to the tutor-web)

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# The tutor-web

- a freely accessible resource
- can store all educational material used in a classroom
- provides on-line evaluation.
- a database involving the structured storage of text and figures using predefined formats.
- Everything else is a "view" into this database.
- in Plone: has access control, improved instructor access



The important design aspects are to take into account all material which an instructor needs.

- For general usefulness it is important to have material and to get the views needed to inspect, utilise and modify material
- but all the views are secondary since they can always be changed. Although this is considerable work it is trivial compared to entering the data.

## Slide content and structure

The slide is the center and can contain text and figures. The slide links to various other pieces of information.

The tricks:

- All content is interlinked: examples, detail, handouts, ...
- All "source" is accessible (R commands, LaTeX code etc)
- Predefined formats only (but many)

This **text part** of this slide is in *structured text*, a format commonly used by programmers. For see the "Alternative" link of the web-page.

Each slide can have an explanatory section, like a footnote. Sometimes these are used to show examples without printing them in the paper handouts, since the example section is always printed anyway but not on the slide.

This LaTeX example permits arbitrary formulas:  $\int_{-\infty}^{+\infty} \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}} dx = 1$

# Using the tutor-web

## Full use

- In-class slides: Replaces other electronic slides
- In-class material: Distribute book-version of tutorials
- Home studies: See same slides, look up detail, examples, handouts
- Evaluation: On-line multiple choice quizzes

## Other options via completion of certain tutorials/quizzes

- Use as prerequisites for taking a real-world course
- Use as prerequisites for taking an exam in a real-world course

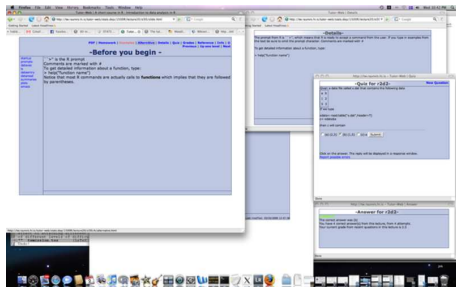
## Still other option

- Just get free textbooks
- Point a good student towards further material
- Suggest a prerequisite tutorial before taking an advanced class
- Suggest remedial measures if a student has problems

# A student's view

A student will flip to a lecture, possibly looking at the slides, and then proceed to take the quizzes.

Note that the student sees the same slides at home as in class - and has full access to all class-based material.



# The instructor's view

In the Plone version: Click on the teacher view button.

An authorized instructor can then see and edit all components of the slide.

A student can use this view to see all the components.

The screenshot shows the instructor view of a slide in Plone. At the top, there are navigation tabs: 'Users', 'Welcome to Plone', 'News', and 'Events'. Below these is a breadcrumb trail: 'Home → Documentation room → Introduction to the tutor-web →'. The main content area has a green header with four buttons: 'Contents', 'View' (highlighted), 'Edit', and 'Properties'. The slide content includes the title 'Slide content and structure', a sub-section 'Teacher View', and a list of links: 'Examples', 'Alternative', 'Details', and 'Handout'. A 'Previous: The tutor-web' link is also visible. The bottom of the slide contains text: 'The slide is the center and can contain text and images. It is also possible to use LaTeX code and other special characters.' A sidebar on the left shows a tree view of the site structure.

# Partnerships

20+ instructors from 18 countries

## Low-income areas

- Many (most?) current partners are in low-income areas
- Obvious benefits from free material
- Access to special tutorials for good students
- Access to tutorials for remedial math



# Conclusions