Follow Up Session

Functional and Quality Requirements, Latex

From yesterday

- The logoff button should be red, located in the top left corner of the UI and be 500x500 pixels.
- The logoff button should
 - be red (RGB code 255.0.0)
 - Be 500 pixels wide and 500 pixels high
 - Be located at top left corner of the UI
- The UI should look like the screen shown in Figure 3.2.
- A requirement must only specify one thing! In this case a button.
- Ul reqs. are hard to model with natlang!

A Bad requirement

- When a user clicks the red quit button the application should be terminated.
- Describes a function and what the button looks like.
- Also bad because it is written in a passive voice.
 - Be terminated -> terminate

- Split it into two requirements.
 - Think how many test cases would be required to test that the requirement has been fulfilled.
 - One for quit
 - One for color, shape, location, etc.

Different Types of Requirements

- Functional Requirements
 - Features
 - Specific functions

- Non-Functional/Quality requirements (NFRs)
- "-ilities"
 - Usability
 - Reliability
 - Availability
 - Dependability
 - Security
 - Performance
 - Safety

What are they for?

- Functional requirements
 - Specify the functionality of the system, what the customers functional needs are. Domain specific!
 - I.e. Application must be able to export data into a PDF.
- Quality Requirements
 - Specify overarching properties of the system that result from the implementation of the system.
 - I.e. Performance of the system be high even under a load of 500.000 users.

What is this?

• The system must not be inaccessible more than one hour each year.

Quality requirement. Availability

What about this?

• The system should have graphical user interface that is easy to use by experienced users.

Quality requirement. Usability

And this?

• The system should have a firewall to make it secure against attacks on port 80.

Quality requirement. Security

And finally, what is this?

• The application should continuously show my location with a red arrow on the map.

Functional requirement.

There are other definitions

But we will stick to FR's and NFR's in this course.

What is Latex?

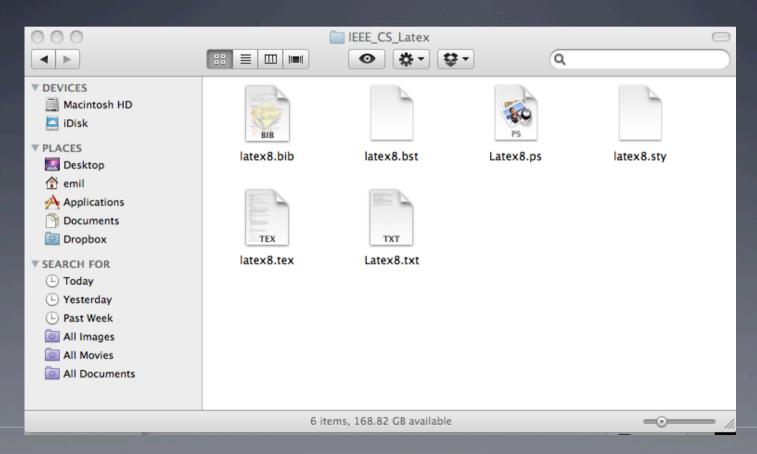
- "Tool" for formatting of technical papers.
- Download:
 - Mac: http://www.tug.org/mactex/2010/morepackages.html
 - Windows: http://miktex.org/2.9/setup
- IEEE standard found on course homepage.

Okey, that's all good. But why use it?

- Perfect result every time, professional.
- Easy switch between styles
- Easy to work with large documents
- Easy reference management
- Satisfying to compile

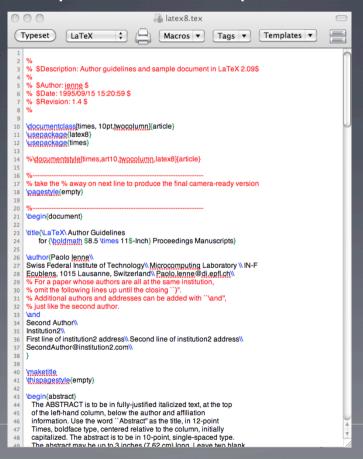
How do I use it?

 Download style files and unpack them where you want them.



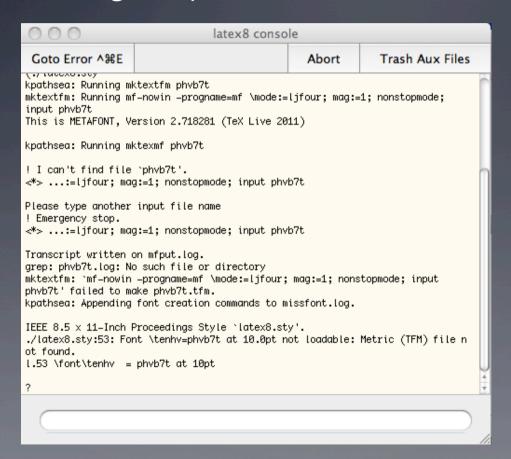
Then what?

 Click on the .tex file. Should automatically start the default Tex Editor. (TexShop in this example)



But... Fail?

• Yes, fail... bug in style file.



Voila! Very nice :D



LATEX Author Guidelines for 8.5 × 11-Inch Proceedings Manuscripts

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Abstract

The ABSTRACT is to be in fully-justified italicized text, at the top of the left-hand column, below the author and affiliation information. Use the word "Abstract" as the title, in 12-point Times, boldface type, centered relative to the column, initially capitalized. The abstract is to be in 10-point, single-spaced type. The abstract may be up to 3 inches (7.62 cm) long. Leave two blank lines after the Abstract, then begin the main text.

1. Introduction

Please follow the steps outlined below when submitting your manuscript to the IEEE Computer Society Press. Note there have been some changes to the measurements from previous instructions.

2. Instructions

Please read the following carefully.

2.1. Language

All manuscripts must be in English.

cm) wide by 8-7/8 inches (22.54 cm) high. Do not write or print anything outside the print area. Number your pages lightly, in pencil, on the upper right-hand corners of the BACKS of the pages (for example, 1/10, 2/10, or 1 of 10, 2 of 10, and so forth). Please do not write on the fronts of the pages, nor on the lower halves of the backs of the pages.

2.4. Formatting your paper

All text must be in a two-column format. The total allowable width of the text area is 6-7/8 inches (17.5 cm) wide by 8-7/8 inches (22.54 cm) high. Columns are to be 3-1/4 inches (8.25 cm) wide, with a 5/16 inch (0.8 cm) space between them. The main title (on the first page) should begin 1.0 inch (2.54 cm) from the top edge of the page. The second and following pages should begin 1.0 inch (2.54 cm) from the top edge. On all pages, the bottom margin should be 1-1/8 inches (2.86 cm) from the bottom edge of the page for 8.5×11 -inch paper; for A4 paper, approximately 1-5/8 inches (4.13 cm) from the bottom edge of the page.

2.5. Type-style and fonts

Wherever Times is specified, Times Roman may also be used. If neither is available on your word processor, please use the font closest in appearance to Times that you have

Assignment 2 and Group Assignment

- Not a requirement, but recommended!
- Alternatively there is a Word Template with the same layout on the course homepage.

- Valuable to learn for the future!
 - I didn't... and suffered for it