

L^AT_EX Assignment

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Abstract

This paper is really just an assignment.

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1 Instruction

Your assignment is to reverse-engineer this document. On September 19th you should turn in your L^AT_EX file, BibT_EX file and the compiled PDF that should look as close to this one as possible. You should change the name, the e-mail, the date and you can use an image of your choice. You can mostly just copy the text, but be aware that you should use `\ref` for references and not just type or copy the numbers. The same goes for citations. E-mail Jordi with any questions.

Section 1 contains the introduction and references other things in this document. Section 2 has a table (Table 1) you should replicate and an image of your choice (see Figure 1). Section 3 contains math. Please try to replicate this exactly using Google. And finally, Section 4 cites some publications.

2 Floats

Use the "float" package to get the positioning right.

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2.1 Table

Replicate this table exactly:

English	Icelandic
I	ég
you	þú
birthday	afmæli
to be	að vera

Table 1: Translation table

2.2 Figure

Put a nice image here:



Figure 1: Most of the time it should be fine though.

3 Math

Einstein's famous $E = mc^2$ formula changed our understanding of the universe.

$$f(x) = \frac{x^2 - 1}{x - 1} \quad (1)$$

The function in Equation 1 is undefined at $x = 1$, but we can calculate the limit:

$$\lim_{x \rightarrow 1} f(x) = 2$$

Equation 2 has a very counter-intuitive result:

$$(\sin^2 \pi + \cos^2 \pi) \sum_{i=1}^{\infty} i = -1/12 \quad (2)$$

4 Citations

Gamma, Helm, Johnson, and Vlissides [1995] wrote the seminal text on design patterns in programming based on an idea from building architecture [Alexander et al., 1977].

Use the "plainnat" bibliography style.

Preferences

Don't copy the text in this section. Instead tell me what you would like to do at the next L^AT_EX lecture (planned for September 22nd). Do you want an interactive session where we can go over the assignment together, or Jordi can help you with any L^AT_EX difficulties you have with writing an article? And/Or would you like Jordi to talk about more advanced topics? If so, which?

References

Christopher Alexander, Sara Ishikawa, and Murray Silverstein. *A Pattern Language: Towns, Buildings, Construction*. Oxford University Press, New York, August 1977. ISBN 0195019199.

Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides. *Design Patterns, Elements of Reusable Object-Oriented Software*. Addison-Wesley, 1995.