Technická univerzita v Košiciach
Fakulta elektrotechniky a informatiky

Moja záverečná práca

(šablóna)

Bakalárska práca

2018   **Janko Hraško**

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Fakulta elektrotechniky a informatiky

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Študijný program:	Informatika
Študijný odbor:	9.2.1. Informatika
Školiace pracovisko:	Katedra počítačov a informatiky (KPI)
Školiteľ:	Leslie Lamport
Konzultant:	Donald E. Knuth

Košice 2018   **Janko Hraško**

Abstrakt v SJ

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Kľúčové slová v SJ

LaTeX, programovanie, sadzba textu

Abstrakt v AJ

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Kľúčové slová v AJ

LaTeX, programming, typesetting

Bibliografická citácia

HRAŠKO, Janko. *Moja záverečná práca (šablóna)*. Košice: Technická univerzita v Košiciach, Fakulta elektrotechniky a informatiky, 2018. 69s. Vedúci práce: Leslie Lamport

Tu vložte zadávací list pomocou príkazu
`\thesisspec{cesta/k/suboru/so/zadavacim.listom}`
v preambule dokumentu.
Kópiu zadávacieho listu skenujte čiernobielo (v odtieňoch sivej) na 200 až 300
DPI! Nezabudnite do jednej práce vložiť originál zadávacieho listu!

Čestné vyhlásenie

Vyhlasujem, že som záverečnú prácu vypracoval(a) samostatne s použitím uvedenej odbornej literatúry.

Košice, 13.5.2018 . . . .

Vlastnoručný podpis

Poďakovanie

Na tomto mieste by som rád poďakoval svojmu vedúcemu práce za jeho čas a odborné vedenie počas riešenia mojej záverečnej práce.

Rovnako by som sa rád poďakoval svojim rodičom a priateľom za ich podporu a povzbudzovanie počas celého môjho štúdia.

V neposlednom rade by som sa rád poďakoval pánom *Donaldovi E. Knuthovi* a *Leslie Lamportovi* za typografický systém LaTeX, s ktorým som strávil množstvo nezabudnuteľných večerov.

Obsah

Zoznam obrázkov

Zoznam tabuliek

Motivácia

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1 Formulácia úlohy

Text záverečnej práce musí obsahovať kapitolu s formuláciou úlohy resp. úloh riešených v rámci záverečnej práce. V tejto časti autor rozvedie spôsob, akým budú riešené úlohy a tézy formulované v zadaní práce. Taktiež uvedie prehľad podmienok riešenia.

2 Súvisiaca práca

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- v knihe [2] autor prezentuje naozaj odvážne myšlienky

- nemenej zujímavé výsledky publikuje ďalší autor v článku [1]

- v konferenčnom príspevku [3] sú uvedené tiež zauímavé veci

- LaTeX[1] je typografický jazyk

Given a set of numbers, there are elementary methods to compute its Greatest Common Divisor, which is abbreviated GCD. This process is similar to that used for the Least Common Multiple (LCM).
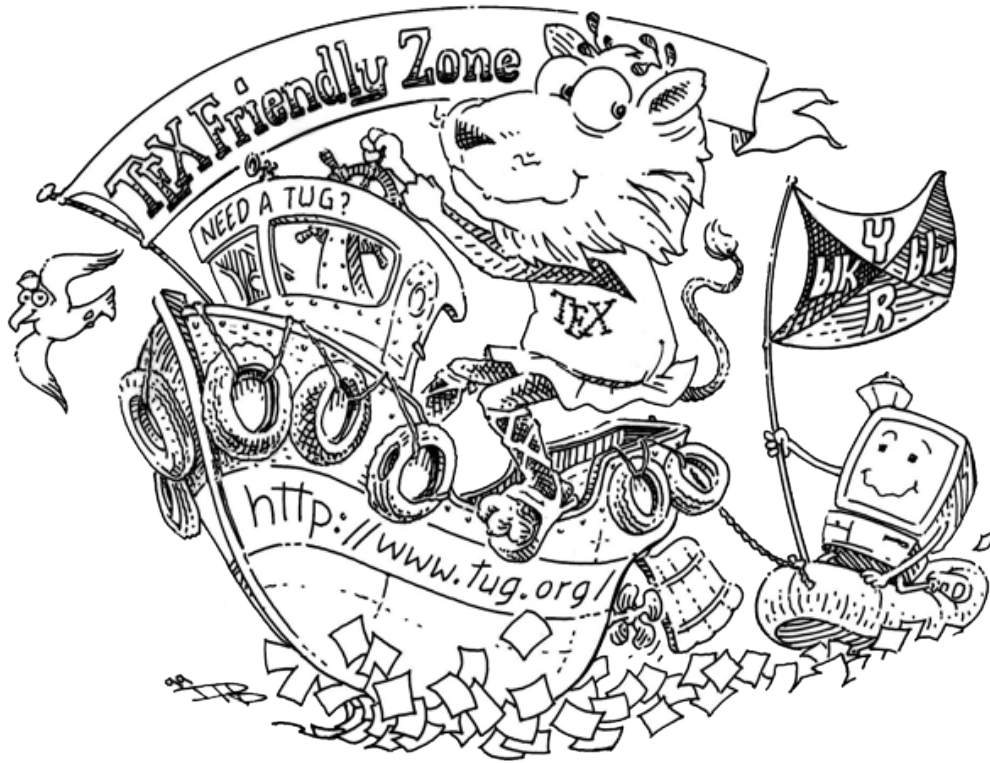
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[1]https://www.latex-project.org/

Obr. 2.1: LaTeX Friendly Zone

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Tabuľka 2.1: Country list

Country List			
Country Name or Area Name	ISO ALPHA 2 Code	ISO ALPHA 3 Code	ISO numeric Code
Afghanistan	AF	AFG	004
Aland Islands	AX	ALA	248
Albania	AL	ALB	008
Algeria	DZ	DZA	012
American Samoa	AS	ASM	016
Andorra	AD	AND	020
Angola	AO	AGO	024

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3 Metodológia

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4 Implementácia

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5 Dosiahnuté výsledky

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6 Interpretácia výsledkov

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7   Ďalšia práca

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Literatúra

1. ADAMS, Peter. The title of the work. *The name of the journal*. 1993, roč. 4, č. 2, s. 201–213. An optional note.

2. BABINGTON, Peter. *The title of the work*. 3. vyd. The address: The name of the publisher, 1993. 10. ISBN 3257227892. An optional note.

3. DRAPER, Peter. The title of the work. In: EDITOR, The (ed.). *The title of the book*. The address of the publisher: The publisher, 1993, zv. 4, s. 213. 5. An optional note.

Zoznam skratiek

GCD Greatest Common Divisor.

LCM Least Common Multiple.

Zoznam príloh

Príloha A Karel Language Reference

Príloha B CD médium – záverečná práca v elektronickej podobe,

Príloha C Používateľská príručka

Príloha D Systémová príručka

A   Karel Language Reference

Karel's Primitives

- `void` `movek()` - Moves *Karel* one intersection forward.

- `void` `turn_left()` - Pivots *Karel* 90 degrees left.

- `void` `pick_beeper()` - Takes a beeper from the current intersection and puts it in the beeper bag.

- `void` `put_beeper()` - Takes a beeper from the beeper bag and puts it at the current intersection.

- `void` `turn_on(char* path)` - Turns *Karel* on.

- `void` `turn_off()` - Turns *Karel* off.

Karel's Sensors

- `int` `front_is_clear()` - Returns 1 if there is no wall directly in front of *Karel*. 0 if there is.

- `int` `right_is_clear()` - Returns 1 if there is no wall immediately to *Karel*'s right. 0 if there is.

- `int` `beepers_present()` - Returns 1 if *Karel* is standing at an intersection that has a beeper. 0 otherwise.

- `int` `facing_north()` - Returns 1 if *Karel* is facing north. 0 otherwise.

- `int` `beepers_in_bag()` - Returns 1 if there is at least one beeper in *Karel*'s beeper bag. 0 if the beeper bag is empty.

Misc Functions

- `void set_step_delay(int)` - Sets delay of one *Karel*'s step in miliseconds.

- `loop(int)` - Repeats *Karel*'s instruction in a loop.