Real Lif	e Perl
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Karl "CountZero" Moens

Who am I? The Problem

The Solution

IAT<sub>E</sub>X

Solution

Lessons learned

# Real Life Perl Glueing the Pieces Together

Karl "CountZero" Moens

FOSDEM 2013

2<sup>nd</sup> of February 2013

# FOSDEM '13

Karl "CountZero" Moens

Who am I?

The Problem

The Solution

**LATEX** 

Solution

Lessons learned I am a lawyer, working in an insurance broker's office.



Who am I?

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So my life would be very dull and boring if it was not for: My Thai girlfriend

Karl "CountZero" Moens

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Lessons learned I am a lawyer, working in an insurance broker's office.



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Who am I?

Karl "CountZero" Moens

#### Who am I?

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**LATEX** 

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Lessons learned

### Today we will speak about Perl.

Those who are only interested in Thai girlfriends may now quietly leave the room.

Who am I?

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Who am I?

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# Our insurance broker's office manages the insurance of many different fleets of ships.

The Problem

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This involves a lot of administration:

- Issuing insurance policies
- Providing "Certificates of Cover" (1 page summary of the policy)
- Making "Extracts of Cover" (more detailed summary)

Updating and forwarding of fleet-lists

Strange as it may seem, all this work was done manually. A project which included automating part of this work was discontinued after three years and several  $100\,000 \in$ .

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### I am always looking for ways to improve my karma.

So I decided to write an application to automate the production of certificates, extracts, fleetlists, ... And write it in 7 days or less. With no budget! And while still doing my normal job!

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#### Karl "CountZero" Moens

#### Who am I?

The Problem

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First Day Second Day Third Day

Fourth Day

**LATEX** 

Solution

Lessons learned

Constraint	Solution
Only 7 days to provide a working solution	RAD language (Perl, of course)
No budget	Free and Open Source based
To be used by admin people who are Win- dows trained and have no clue about CLI	???
Minimal install on user's PC	Install Perl, on shared network drive

The Solution

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Karl "CountZero" Moens

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Karl "CountZero" Moens

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Karl "CountZero" Moens

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Who am I? The Problem The Solution First Day Second Day Third Day Fourth Day LATEX Solution Lessons Learned

### The Solution First Day — Analysis

### Let's find out how this business is done now.

- Finding and analyzing the various documents to be produced; 3 types of documents found: fleetlist, extract of cover, certificate of insurance
- These documents are all based upon a standard format (same per fleet; but different per insurance policy), however some ships may have additional clauses
- Per fleet there is one spreadsheet with technical data and one MSWord-file with "names" and "capacities"; these files are maintained by different admin people
- Sometimes the client requires documents for the whole fleet, sometimes only for one or more vessels in the fleet.
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Karl "CountZero" Moens

#### Who am I?

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First Day — Analysis

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## The Solution First Day — I have a plan!

#### Who am I?

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- The core of the application will be a templating engine. Perl has an abundance of these. I will choose Template::Toolkit, it is easy to use, very flexible and can contain some business logic in the template itself. And I already have the "Badger book".
- The data for each fleet will be maintained in two spreadsheets. The MSWord file will be transformed into a spreadsheet.

Spreadsheet::ParseExcel::Simple makes
reading Excel spreadsheets very easy.

- The template will produce a LATEX-file and will have to be "compiled" into a final PDF file. There are a number of Perl modules to run the TEX-engine.
- The Windows users will like to see a GUI for choosing which vessels to "run". Wx, Tk/Tcl ??? I never used these before.

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Solution

Lessons learned • Starting the day with cleaning up the "technical" spreadsheet and transforming the MSWord file into a spreadsheet. Note to self: make sure that the ship's names are the same in both files.

The Solution

Second Day — Let's get really started

- Writing the code to read in both spreadsheets and "objectifying" the data. Moose is a great module: just describe the data-structure and Moose practically builds the objects for you. With some after magic the data gets imported as soon as the name of the spreadsheet is added to the object.
- I realize it is not a good idea to hard-code the paths and names of the spreadsheets: add a configuration file in YAML-format to contain this info. Use some BUILD magic to parse the config-file and stuff the object with the file-paths, triggering the loading of the data in the object.

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Lessons learned Third Day — Weekend, but we keep'on working

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• Now that we have the object structure done, we can write the template files.

 Start by writing a LaTEX-file on basis of the MSWord-"Extract of Cover"-file. All it really needs is adding LaTEX structure commands and wrapping it inside an already existing style file importing our house-style. Looks good! ☺

 Doesn't look good. <sup>(2)</sup> All accented characters are wrong. Changing all those by hand into their LATEX equivalents is bo-o-o-o-oring. Ah, Thai girlfriend is on Yahoo Messenger. Spend the afternoon chatting. <sup>(2)</sup> <sup>(2)</sup>

 I realize the spreadsheets also contain accented characters. I cannot ask the maintainers of these files to input accents in LATEX-style (ö => \"{o}). Let's sleep over it.

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Third Day — Weekend, but we keep'on working

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## • Now that we have the object structure done, we can write the template files.

- Start by writing a LATEX-file on basis of the MSWord-"Extract of Cover"-file. All it really needs is adding LATEX structure commands and wrapping it inside an already existing style file importing our house-style. Looks good! <sup>(C)</sup>
- Doesn't look good. <sup>(C)</sup> All accented characters are wrong. Changing all those by hand into their LATEX equivalents is bo-o-o-o-oring. Ah, Thai girlfriend is on Yahoo Messenger. Spend the afternoon chatting. <sup>(C)</sup> <sup>(C)</sup>
- I realize the spreadsheets also contain accented characters. I cannot ask the maintainers of these files to input accents in LATEX-style (ö => \"{o}). Let's sleep over it.

The Solution

Third Day — Weekend, but we keep'on working

#### **Real Life Perl**

Karl "CountZero" Moens

- The Problem
- The Solution First Day Second Day Third Day Fourth Day
- IATEX
- Solution
- Lessons learned

- CPAN CPAN CPAN! If everything else fails (and even well before that), check CPAN. LaTeX::Encode escapes and encodes utf-8 text into LATEX entities.
- In a few minutes all MSWord files are saved as text files and LATEX-encoded. Turning these into a LATEX-file takes only a few hours.
- All the variable information in the LATEX-file is replaced by Template::Toolkit tags and variables.
- Adding two lines to the script to run the template through Template::Toolkit and it produces a finished LATEX-source file
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Karl "CountZero" Moens

Who am I?

The Problem

The Solution

IAT<sub>E</sub>X

Solution

Lessons learned LATEX may have to run multiple times before the output file (PDF or DVI) stabilizes:

- At least twice if there is a TOC at the front, or internal references, or (hyper)links
- Three times if the document includes a bibliography or an index

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 Four or five times if there are complicated tables spanning multiple pages



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PAGE 3			
DEPARTMENT	COURSE	DESCRIPTION	PREREQS
COMPUTER SCIENCE	CPSC 432	INTERMEDIATE COMPILER DESIGN, WITH A FOCUS ON DEPENDENCY RESOLUTION.	CPSC 432
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Karl "CountZero" Moens

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**LATEX** 

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Karl "CountZero" Moens **PALEX** 

Who am I?

The Problem

The Solution

**LATEX** 

Solution

Lessons learned



# LATEX produces many auxiliary files which litter your hard-disk.

In between runs you may need to run indexing programs or bibliographic databases After having (re-)compiled a LATEX-file you must manually start a viewer to see the result.

Karl "CountZero" Moens **PALEX** 

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Karl "CountZero" Moens

Who am I? The Problem

The Solution

LAT<sub>E</sub>X

Solution

Lessons learned

# As T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X *compile* your text input into an output file, why not use a *make-like utility* to help you?

A make utility for LATEX

Sac

latexmk is a Perl script for running LATEX the correct
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It has a number of other useful capabilities:

Its current released version is 4.35 of 11<sup>th</sup> of November 2012. http://www.phys.psu.edu/~collins/software/ latexmk-jcc/ or on CTAN (Comprehensive T<sub>E</sub>X Archive Network): http://www.ctan.org

Karl "CountZero" Moens

Who am I? The Problem

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Karl "CountZero" Moens

Who am I? The Problem

The Solution

IAT<sub>E</sub>X

Solution

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Who am I? The Problem The Solution

LAT<sub>E</sub>X

Solution

Fifth Day Sixth Day Seventh Day

Lessons learned No work done on this project. I had to attend to some claimfiles.

The Solution

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Fifth Day



### Business as usual.

Karl "CountZero" Moens

Who am I? The Problem The Solution

LAT<sub>E</sub>X

Solution

Fifth Day Sixth Day Seventh Day

Lessons learned

## No work done on this project. I had to attend to some claimfiles.



### Business as usual.

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The Solution

Fifth Day

Karl "CountZero" Moens

### Who am I? The Problem The Solution

LATEX Solution Fifth Day Sixth Day Seventh Day Lessons learned No work done on this project. I had to attend to some claimfiles.



### Business as usua

The Solution

Fifth Day

Karl "CountZero" Moens

Who am I? The Problem The Solution

LAT<sub>E</sub>X

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Fifth Day Sixth Day Seventh Day

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The Solution

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Fifth Day

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### Business as usual.

Karl "CountZero" Moens

Who am I?

The Problem The Solution LATEX Solution Fifth Day Seventh Day Lessons learned

### The Solution Fifth Day

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# No work done on this project. I had to attend to some claimfiles.

Business as usual.

Karl "CountZero" Moens

### The Solution Fifth Day

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Who am I?

The Problem

The Solution

**LATEX** 

Solution

Fifth Day Sixth Day Seventh Day

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Business as usual.

Karl "CountZero" Moens

Who am I? The Problem The Solution

LAT<sub>E</sub>X

Solution Fifth Day Sixth Day Seventh Day

Lessons learned

### I produced some documents and they seemed OK.

Time to write the GUI shell around the script. I discover I am too "old school" to write GUI shells. I will never be able to learn how to do it in a few hours time.

The Solution

Sixth Day — Testing and GUI

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Karl "CountZero" Moens

### The Solution Sixth Day — Testing and GUI

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Who am I? The Problem The Solution

IATEX

Solution Fifth Day Sixth Day Seventh Day

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Who am I? The Problem The Solution

**LATEX** 

Solution Fifth Day Sixth Day Seventh Day

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The Solution

Sixth Day — Testing and GUI

Karl "CountZero" Moens

# The Solution Sixth Day — Testing and non-GUI

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Who am I?

The Problem

The Solution

**LATEX** 

Solution Fifth Day Sixth Day Seventh Day

Lessons learned Instead of a GUI, I will show a numbered list of the vessels in the CLI and allow input of a list of these numbers which will produce the documents for these vessels.

Parse::Range will allow input such as 1, 3, 5–20 which parses as 1, 3, 5 to 20. Cool! That will impress the admin girls for sure.

I run a whole fleet and show this to the admin girls for checking.

Karl "CountZero" Moens

# The Solution Sixth Day — Testing and non-GUI

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Who am I?

The Problem

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**LATEX** 

Solution Fifth Day Sixth Day Seventh Day

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Karl "CountZero" Moens The Solution Sixth Day — Testing and non-GUI

Who am I? The Problem

The Solution

**LATEX** 

Solution Fifth Day Sixth Day Seventh Day

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Karl "CountZero" Moens

The Problem

The Solution

**LATEX** 

Solution Fifth Day Sixth Day Seventh Day

Lessons learned

### The admin girls found about 20 errors in the documents.

### Some typos: easily corrected

 They like the dates in "human" format rather than '2012-10-25'. Nothing that can't be easily solved with the DateTime module.

The Solution

Seventh and Final Day

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 Some vessels have additional special clauses or a different insurance arrangement. This logic was put inside the template: no need to change the application itself. Template: :Toolkit allows even raw Perl to be included if necessary.

All I have to do is to install some shell scripts on the admin girls PCs so they can run the application themselves.

**Real Life Perl** 

Karl "CountZero" Moens

Who am I?

The Problem

The Solution

**LATEX** 

Solution Fifth Day Sixth Day Seventh Day

Lessons learned

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### **Real Life Perl**

Karl "CountZero" Moens

Who am I?

The Problem

The Solution

IAT<sub>E</sub>X

Solution Fifth Day Sixth Day Seventh Day

Lessons learned The admin girls found about 20 errors in the documents.

- Some typos: easily corrected
- They like the dates in "human" format rather than '2012-10-25'. Nothing that can't be easily solved with the DateTime module.
- Some vessels have additional special clauses or a different insurance arrangement. This logic was put inside the template: no need to change the application itself. Template::Toolkit allows even raw Perl to be included if necessary.

All I have to do is to install some shell scripts on the admin girls PCs so they can run the application themselves.

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# What did we learn?

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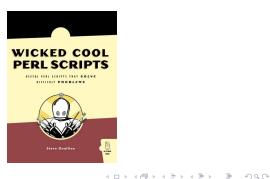
IAT<sub>E</sub>X

Solution

Lessons learned

### • Perl makes difficult things possible, fast.

- The Power of CPAN is awesome!
- Perl glues many different open and closed source technologies together.
- Perl is very much alive and kicking, but hides itself well.
- Perl Progammers always get the nicest girls.



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TRULY, THIS WAS THE LANGUAGE FROM WHICH THE GODS WROUGHT THE UNIVERSE.





What did we learn?

Karl "CountZero" Moens

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What did we learn?

Karl "CountZero" Moens

Who am I? The Problem The Solution

**LATEX** 

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Lessons learned

### A job well done!



The End

The boss and the office girls are grateful. Thank you Perl! Now if only I could write a script to answer the 500+ emails that arrived while I was writing Perl scripts.

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