Real Lif	e Perl
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Karl "CountZero" Moens

Who am I? The Problem

The Solution

IAT_EX

Solution

Lessons learned

Real Life Perl Glueing the Pieces Together

Karl "CountZero" Moens

FOSDEM 2013

2nd of February 2013

FOSDEM '13

Karl "CountZero" Moens

Who am I?

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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

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Who am I?

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Today we will speak about Perl.

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

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

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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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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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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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The Solution First Day — I have a plan!

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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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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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 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. ⁽²⁾ 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. ⁽²⁾ ⁽²⁾

 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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Real Life Perl

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- 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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Real Life Perl

Karl "CountZero" Moens

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

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Karl "CountZero" Moens

Who am I?

The Problem

The Solution

IAT_EX

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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Who am I?

The Problem

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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

Who am I?

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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_EX

Solution

Lessons learned

As T_EX and L^AT_EX *compile* your text input into an output file, why not use a *make-like utility* to help you?

A make utility for LATEX

Sac

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It has a number of other useful capabilities:

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Karl "CountZero" Moens

Who am I? The Problem

The Solution

IAT_EX

Solution

Lessons learned As TEX and LATEX *compile* your text input into an output file, why not use a *make-like utility* to help you? latexmk is a Perl script for running LATEX the correct number of times to resolve cross references, etc; It also runs auxiliary programs (bibtex, makeindex) if necessary, and dvips and/or a previewer as requested. It has a number of other useful capabilities:

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Karl "CountZero" Moens

Who am I? The Problem The Solution

LAT_EX

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_EX

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

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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_EX

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

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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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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

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- 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.

What did we learn?

Real Life Perl

Karl "CountZero" Moens

Who am I?

The Problem

The Solution

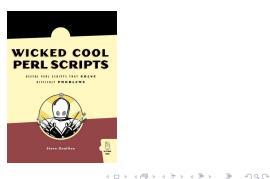
IAT_EX

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?

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Who am I? The Problem The Solution

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Solution

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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Karl "CountZero" Moens

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