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Georg Heeg Founder and Owner of Georg Heeg eK

EXCEL Extraction

Modeling in Smalltalk as Converter of Excel Spreadsheets

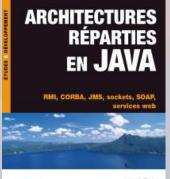
Co-Speaker of the day

Annick Fron – AFC Europe Founding treasurer of ESUG "Smalltalk and Microsoft Word"

Programmation par contraintes

Annick Fron





DUNOD

Annick Fron

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Georg Heeg eK

- Founded 7/7/1987 in Dortmund - Original Mission Spread Smalltalk in Central Europe • 1996 Georg Heeg AG Zurich To serve the Swiss Market • 1999 Subsidiary in Köthen (Anhalt)
 - To keep Family Heeg together



Main Activities

100% Smalltalk

- Training
- Consulting
- Product development for customers
- Own projects
- Own products
- Project support

Our Team

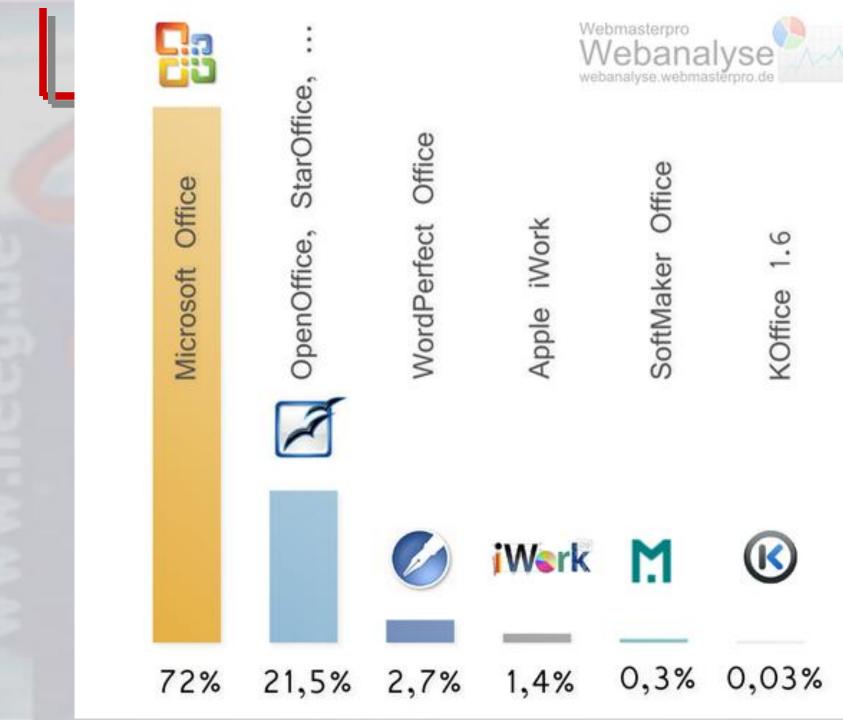
14 Smalltalkers

- -4 to 25 years of Smalltalk experience
- 6 certified Scrum Masters
- 2 Web Designers
- 4 Craftspeople
- 1 Business Administration Manager

Microsoft Excel

🧭 Microsoft Excel 2010 - Microsoft Office - Windows Internet Explorer	
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7



The Situation

- Business data is collected and stored in Excel tables
 - In our organization
 - And others
- Short term needs allow
 - Easy analysis
 - Easy adaptations of the tables
- From year to year tables are slightly modified

The Problem

- Trying to create analysis across years

 These little changes are extremely annoying

 Handwork is needed
 - Labor-intense
 - Labor-Intense
 - Error prone

The Problem

- Flexibility in the small
- Difficulty in the large
- Same reason: Excel Data Model
 - Data in cells
 - Addressed by row and column
- Business models
 - Human only readable in texts
 - Incomprehensible for Excel programming

Our Concept I

- Model business models in Smalltalk
 Object oriented
- Smalltalk-Excel-Interface
 - Based upon COM Connect
 - Fills the business model with data
 - For each variant of Excel tables a variant of the filling functionality is used

Our Concept II

- Analysis is done in the business models using business rules
- Smalltalk-Excel-Interface
 - Based upon COM Connect
 - New Excel are written with an overview of the analysis results

Experiences

- Timetable management at Anhalt University
- Cost overview real estate renovation for SALEG - Sachsen-Anhaltinische Landesentwicklungsgesellschaft mbH
- In the domain of automation in the industry



• Part 1

- Back Box Demo
 - Timetable management at Anhalt University
- Part 2
 - Let's go into the browsers
- Part 3
 - Let's look at Word

Base

- Cincom VisualWorks 7.7.1
- Com Connect
 - Reflection
 - Without mirror classes
 - Without mirrow methods
 - Just objects created from the Type Library
 - Just simple



Status

- Service offering as part of Smalltalk projects we do
- Goal
 - Individual service

Summary

- Overcome Excel concept limitations
- Easy to understand analysis
- No error prone handwork
- Modeling of the business
 - Thus conceptual correctness
- Reproducible analysis
- Adaptability to changing Excel formats
- Independent of Excel version

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