



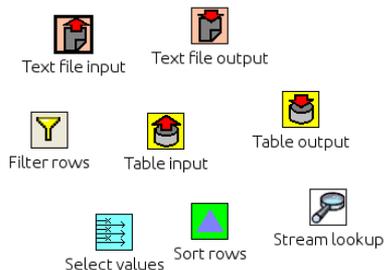
The story behind the ugly icons

From Kettle to PDI

May 13th 2014

Matt Casters

Chief Architect Data Integration at Pentaho



Feel free to

BOO!

Before the code

What I used to do 15 years ago (1999-2003)

Data Integration to enable Business Intelligence

Front-ends:

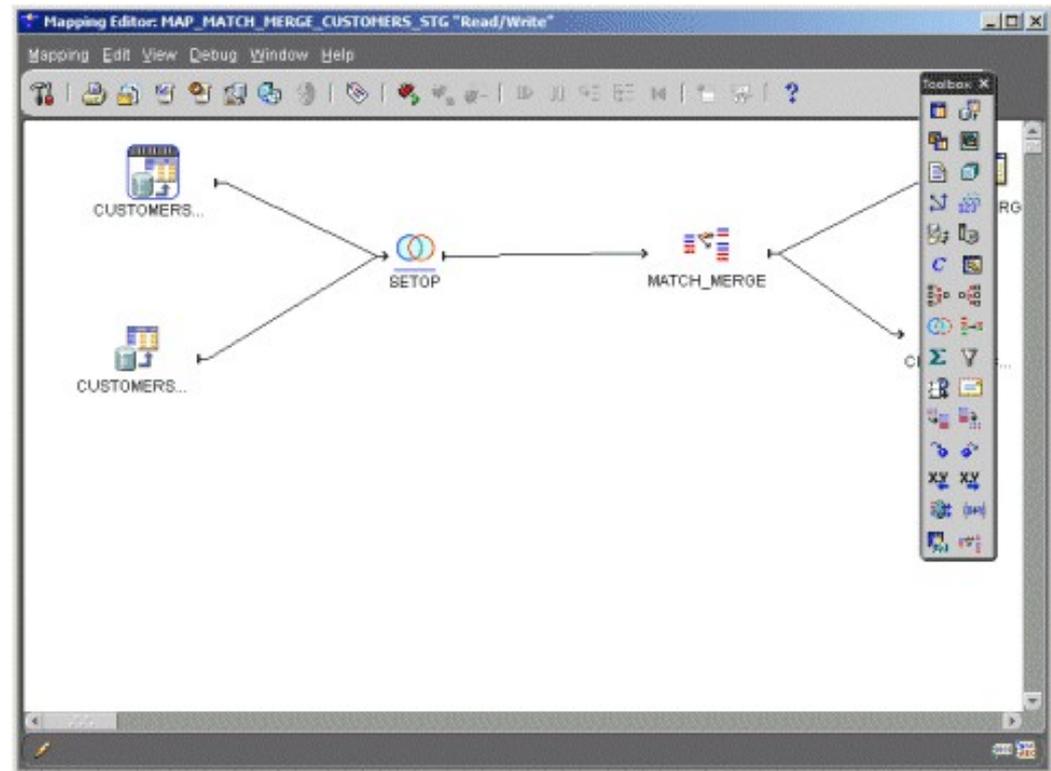
- Platinum InfoBeacon
- Business Objects
- Excel

Databases:

- Oracle
- SQL Server
- DB2, Informix, MS Access

Data Integration:

- Hand-coding C/SQL
- Data Mirror
- Oracle Datamart/Warehouse Builder
- MS DTS



What was wrong with the software?

- **Price: high \$ £ € \$B**
- **Hard to install**
- **Missing core functionality like:**
 - **Copy/Paste**
 - **Very limited data routing**
 - **Multi-data source**
- **Hard to debug**
 - **Code generation: T/SQL, PL/SQL, ...**
 - **No debugging nor preview of data**
- **Hard to maintain**
 - **Stupid naming limitations**
 - **Tedious source-to-target mapping**
- **Metadata not open, hard to read/write**

The resulting design goals?

- **Open source with an Free license**
- **Open, readable XML format**
- **Open, readable relational repository format**
- **Open API**
- **Easy to set up (<2 minutes)**
- **Open to all kinds of databases**
- **Easy-to-use GUI**
- **Easy to pass data around**
- **Easy to convert data from/to any possible format**

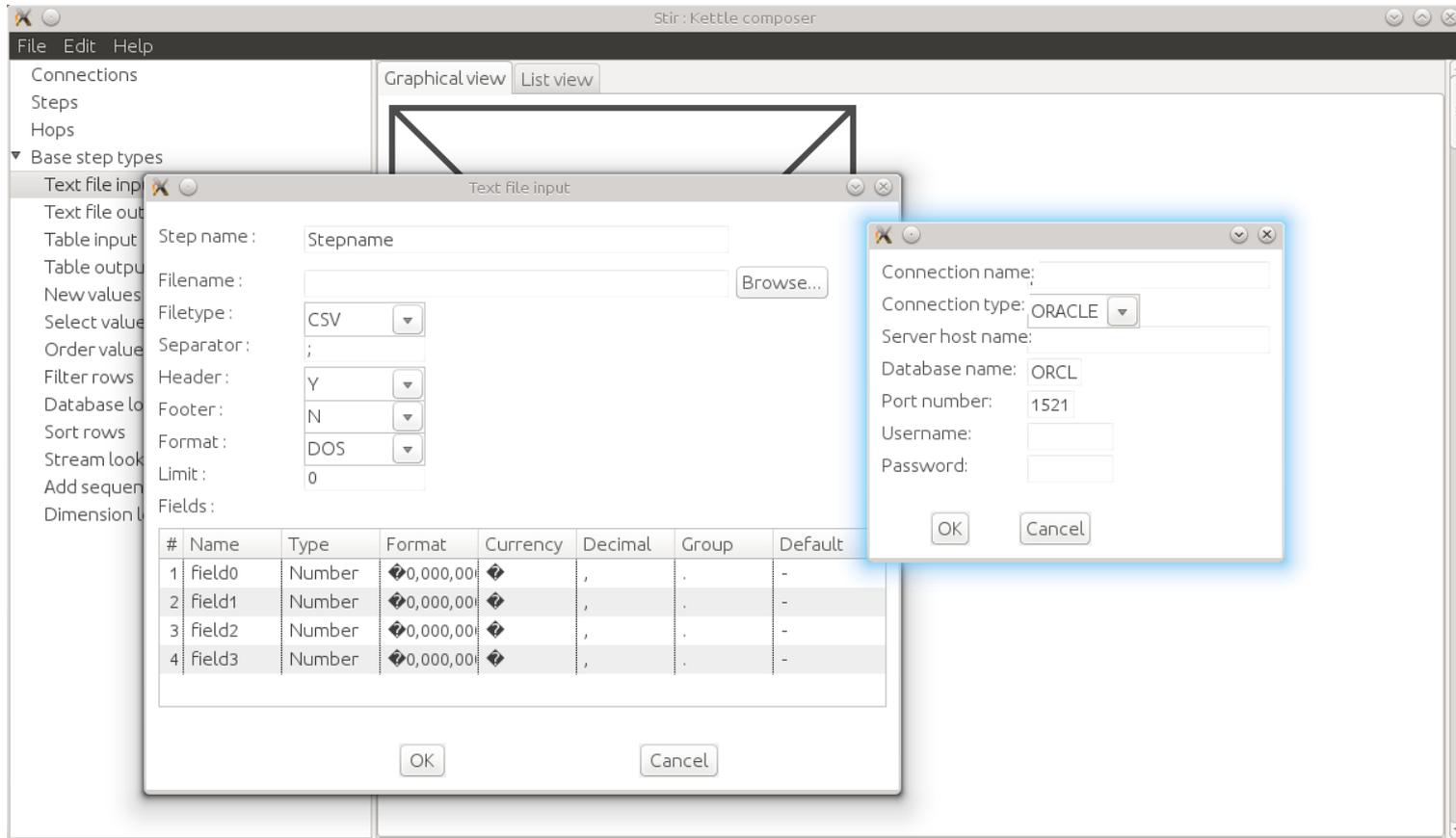


Open & Easy!

The evolution of the code

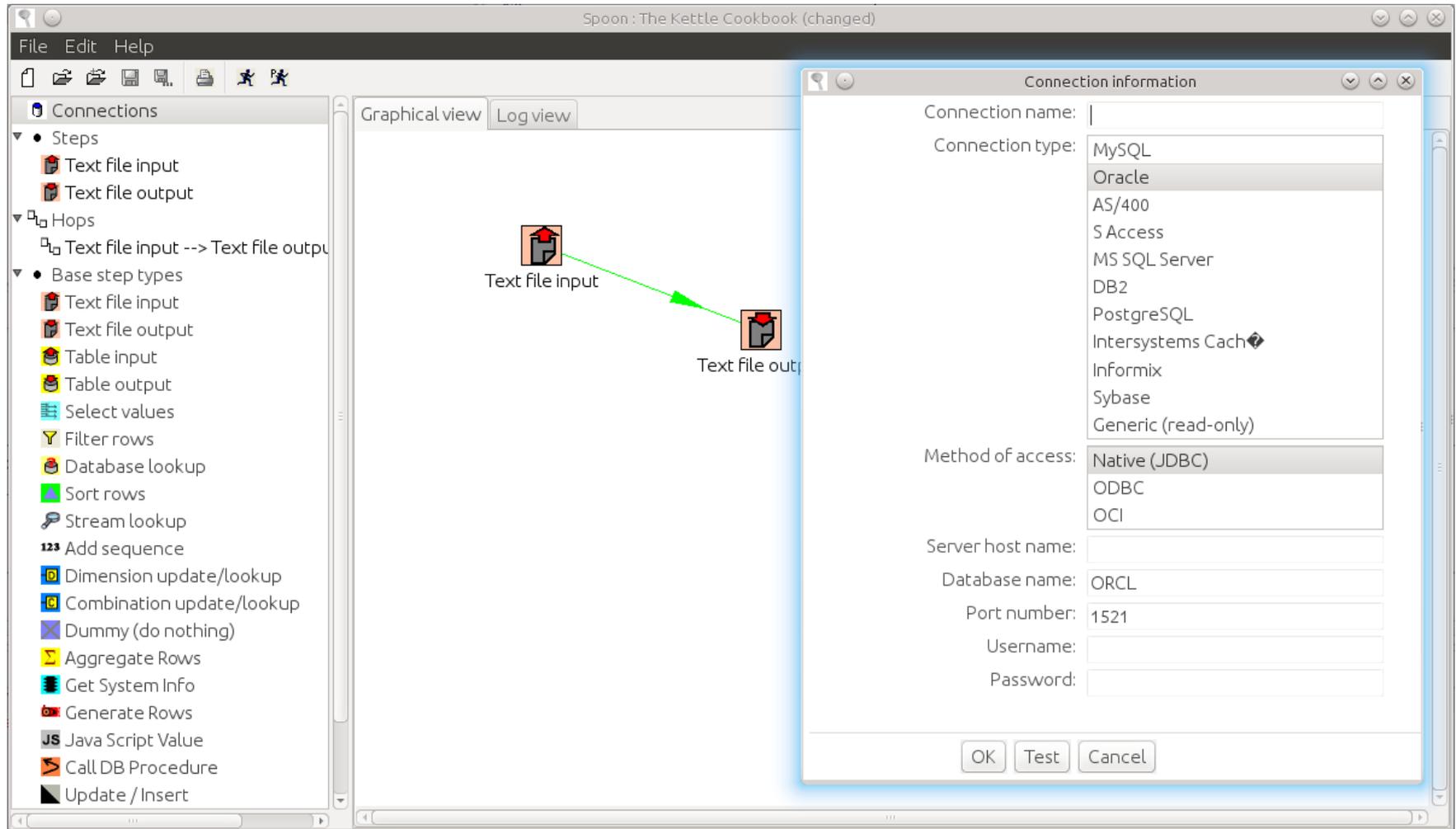
Code metrics & Demo

March 2003 v0: 15,000 lines of code (demo)



Code metrics & Demo

- **December 2003 v1: 50,000 lines of code (demo)**



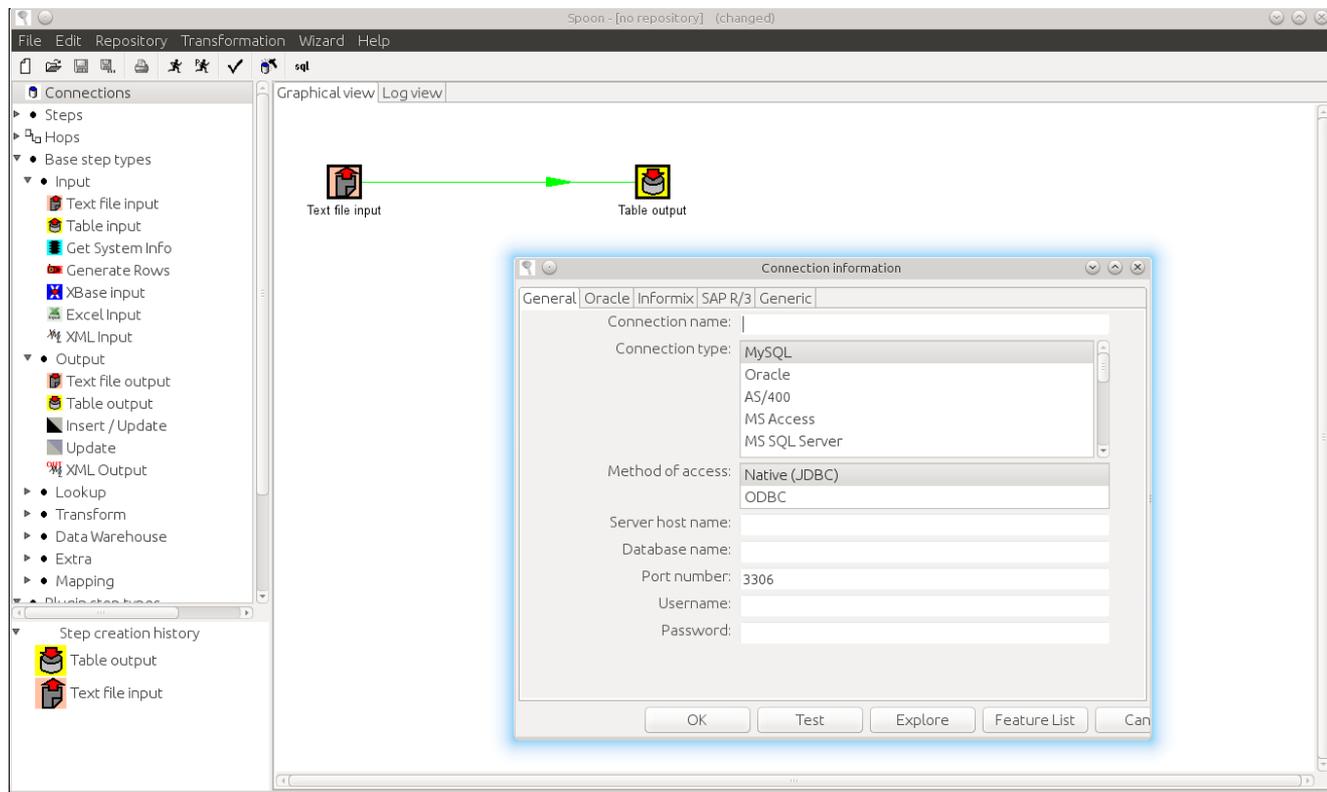


KETTLE® PRESENTATION 2004



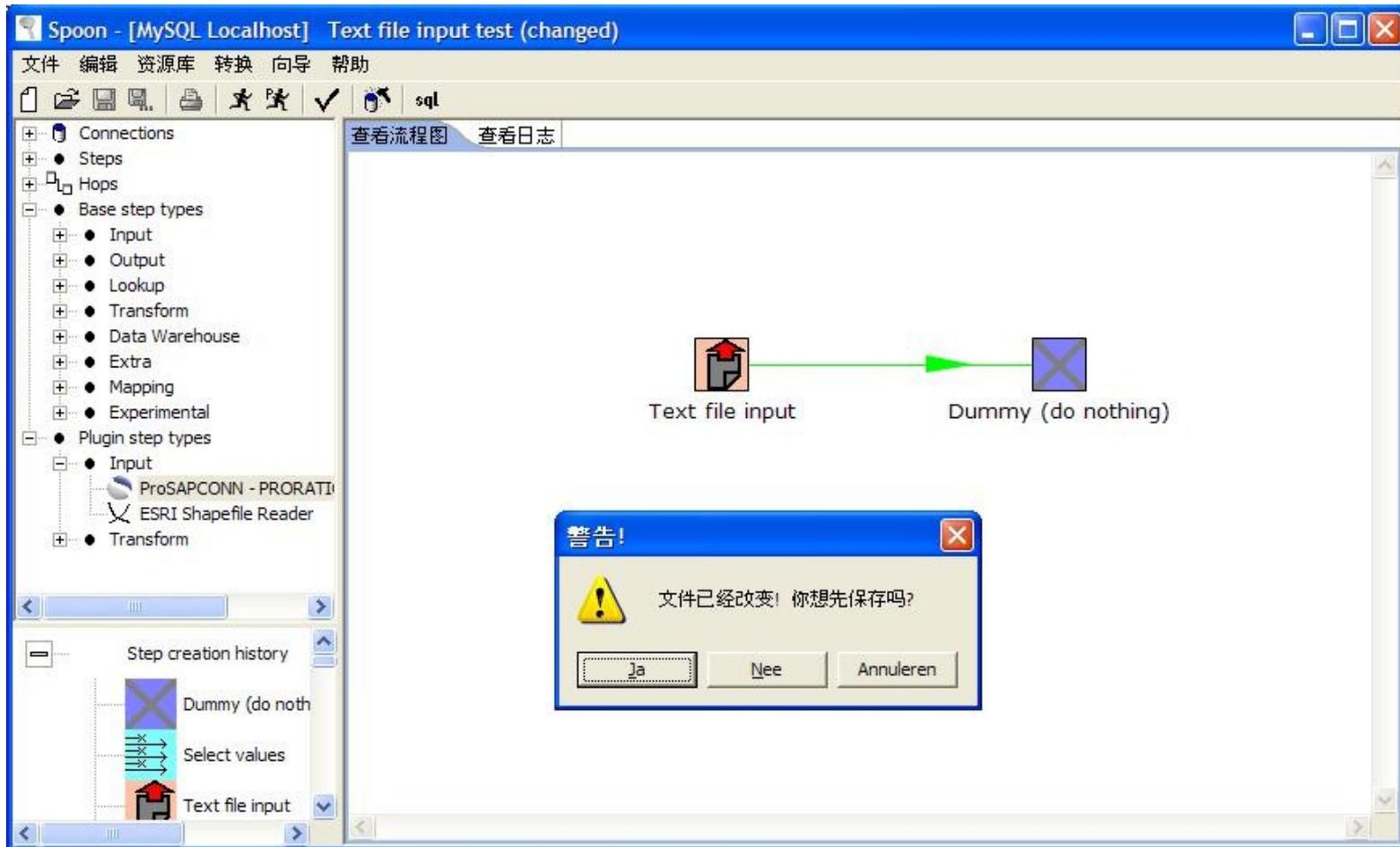
Code metrics & Demo

- December 2005 v2.2.2: 177,000 lines of code
- Open sourcing of Kettle: LGPL
- Demo



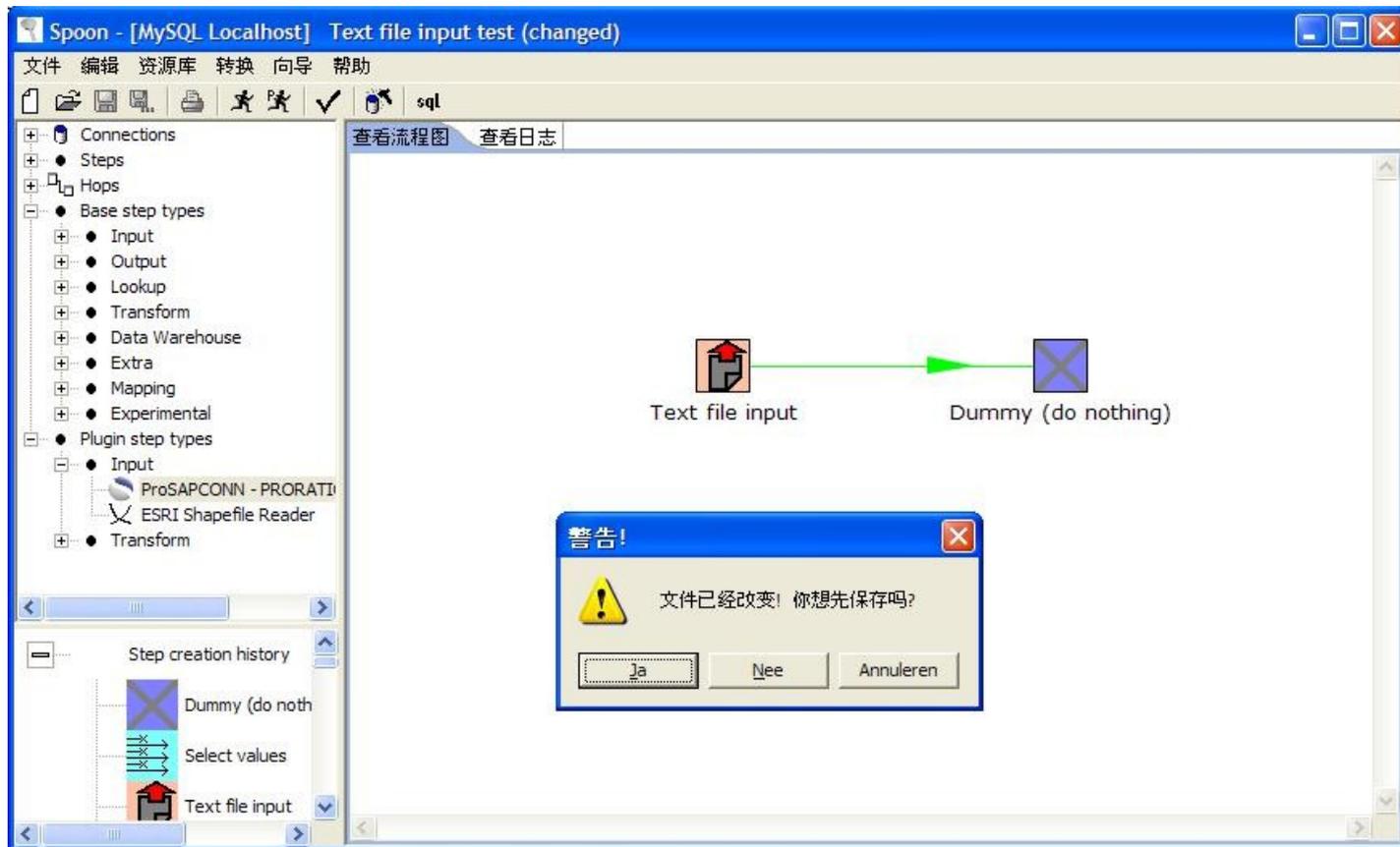
Code metrics & Demo

- March 2006 v2.3.0: 180,000 lines of code
- i18n



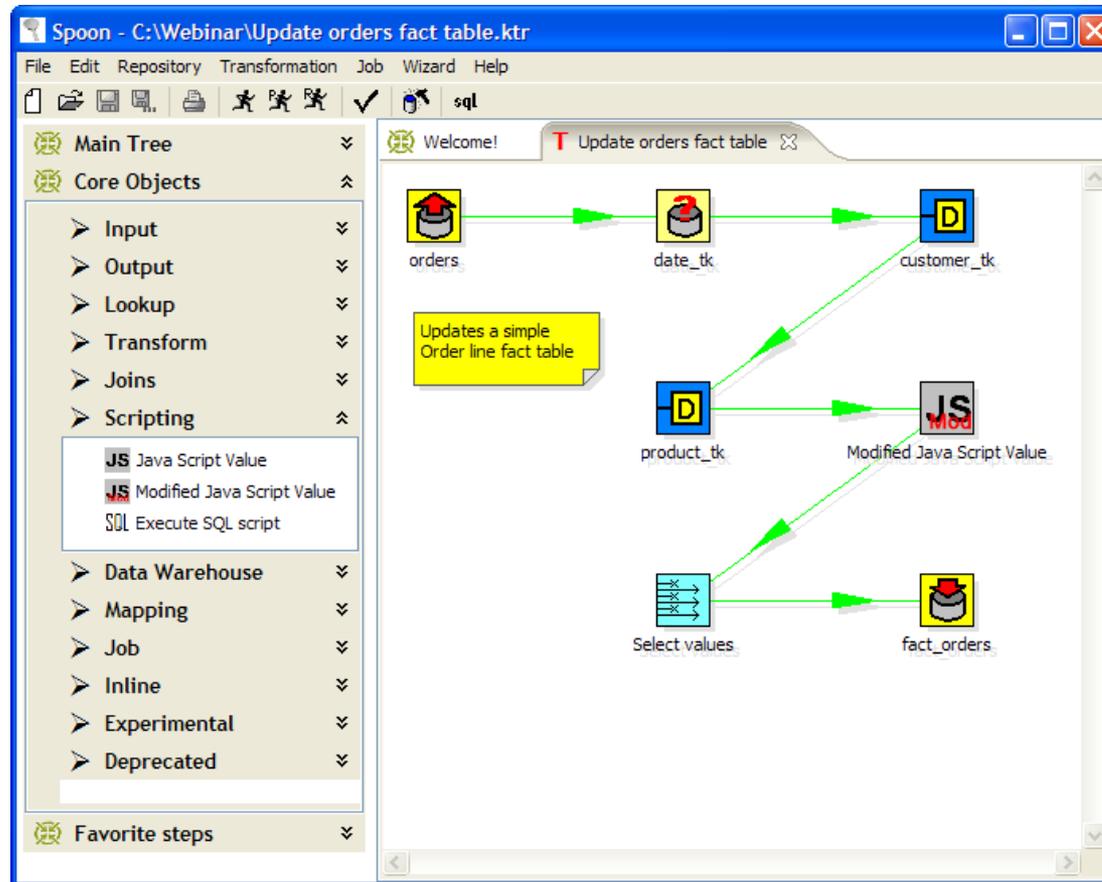
Code metrics & Demo

- March 2006 v2.4.0: 260,000 lines of code
- Clustering & Partitioning
- Still single document



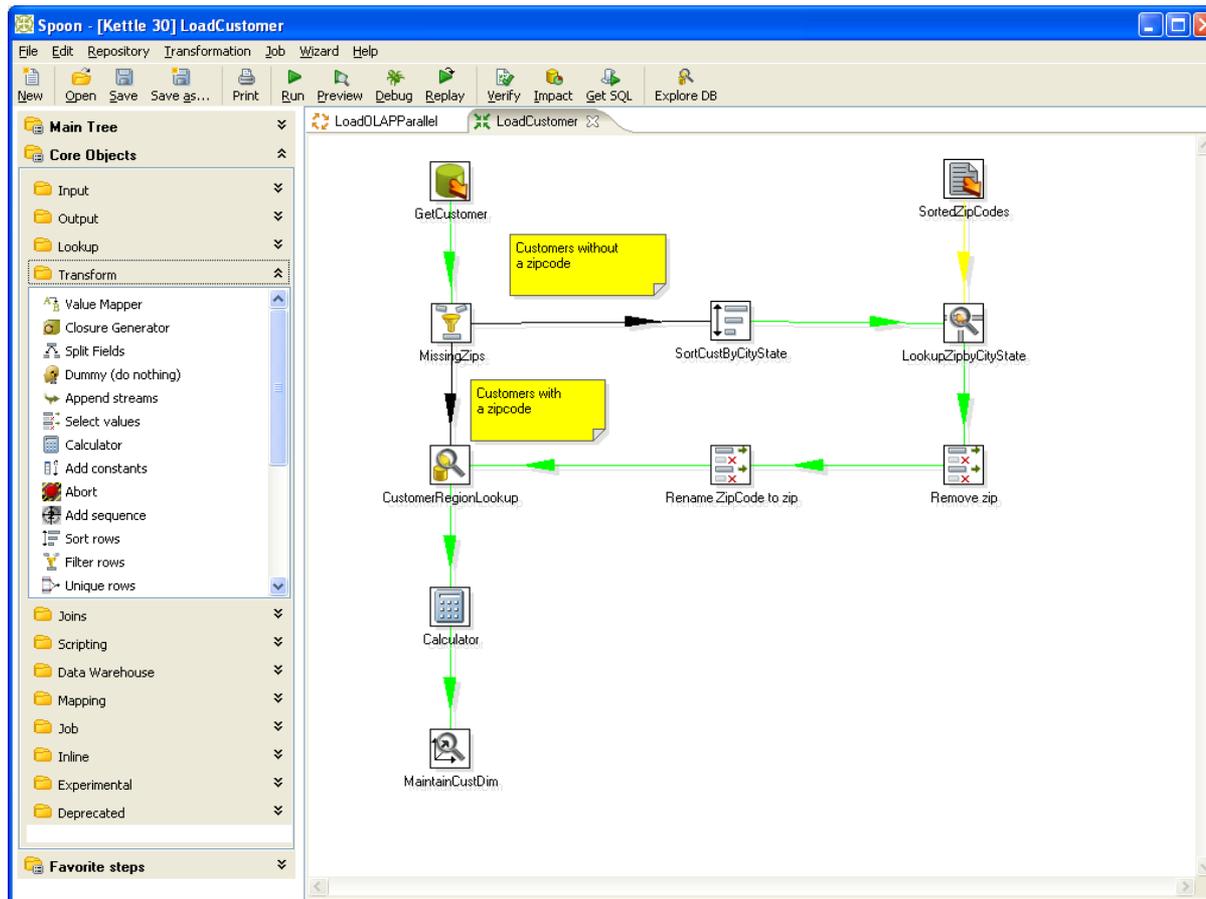
Code metrics & Demo

- March 2006 v2.5.0: 290,000 lines of code
- Multi-document (no more Chef tool)



Code metrics & Demo

- December 2007 v3.0.0 : 345,000 lines of code
- Finally: new icons!
- Multi-document, ...



Code metrics & Demo

- **Memorable version v3.2.5**
- **Updated until late 2011!**

Code metrics & Demo

- **v4.0.0 : 630,000 lines of code**
- **Perspectives**

Code metrics & Demo

- **v5.0.0 : 900,000 lines of code**
- **Too many cool toys to mention**

Thanks to the community!

2008 MAINZ



2008 MAINZ



2009 BARCELONA



2009 BARCELONA



2010 CASCAIS



2011 FRASCATI



**PENTAHO COMMUNITY GATHERING
ROME (FRASCATI) 2011**

2012 FORTALEZA



2012 AMSTERDAM



2013 FORTALEZA

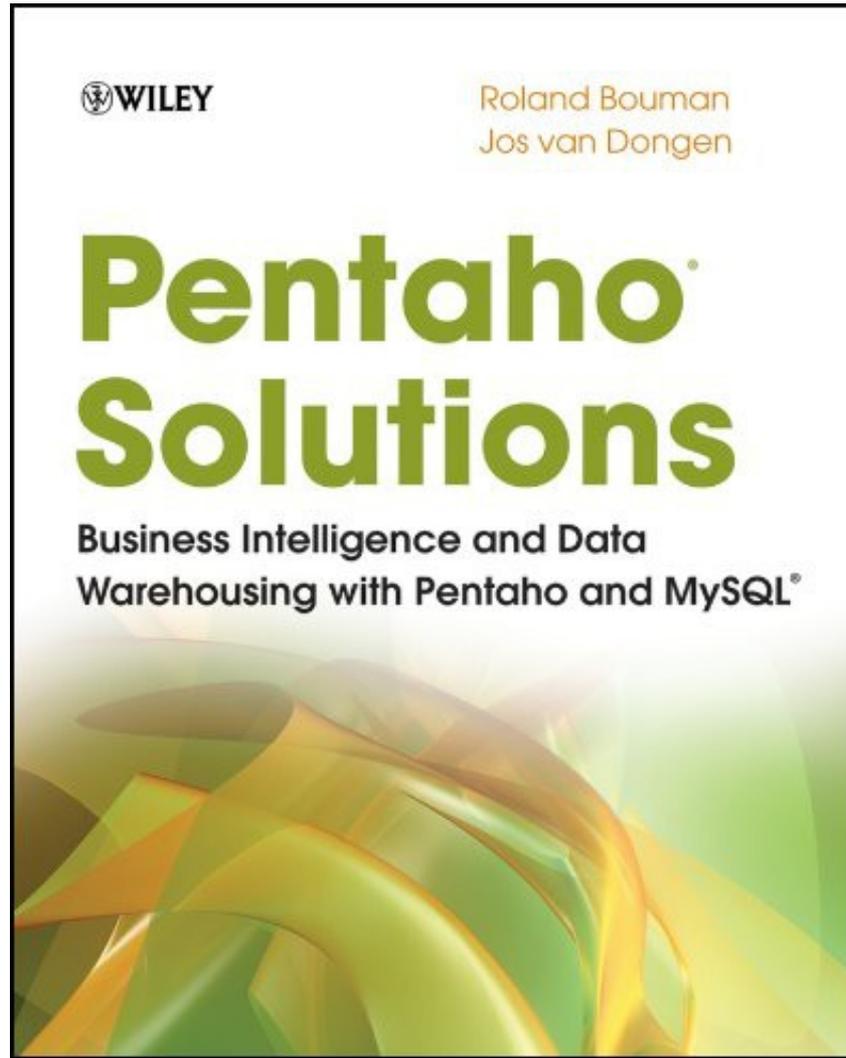


2013 SINTRA

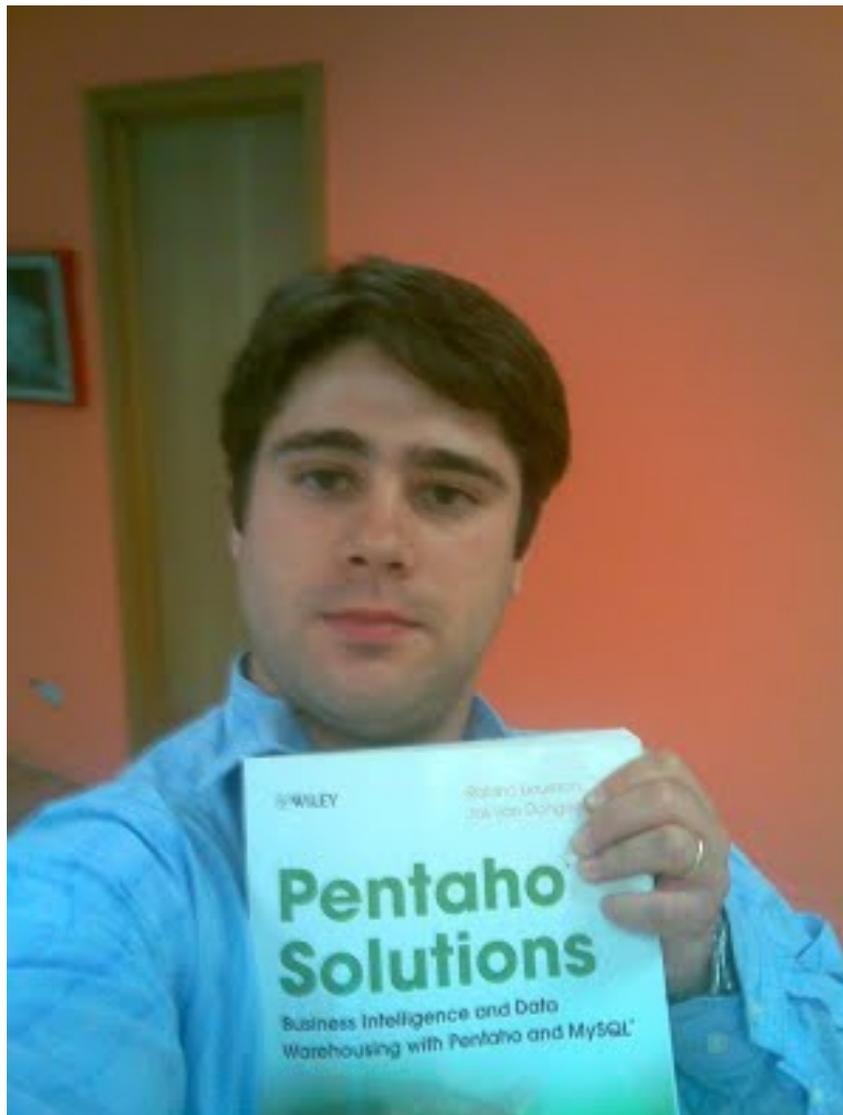


And books...

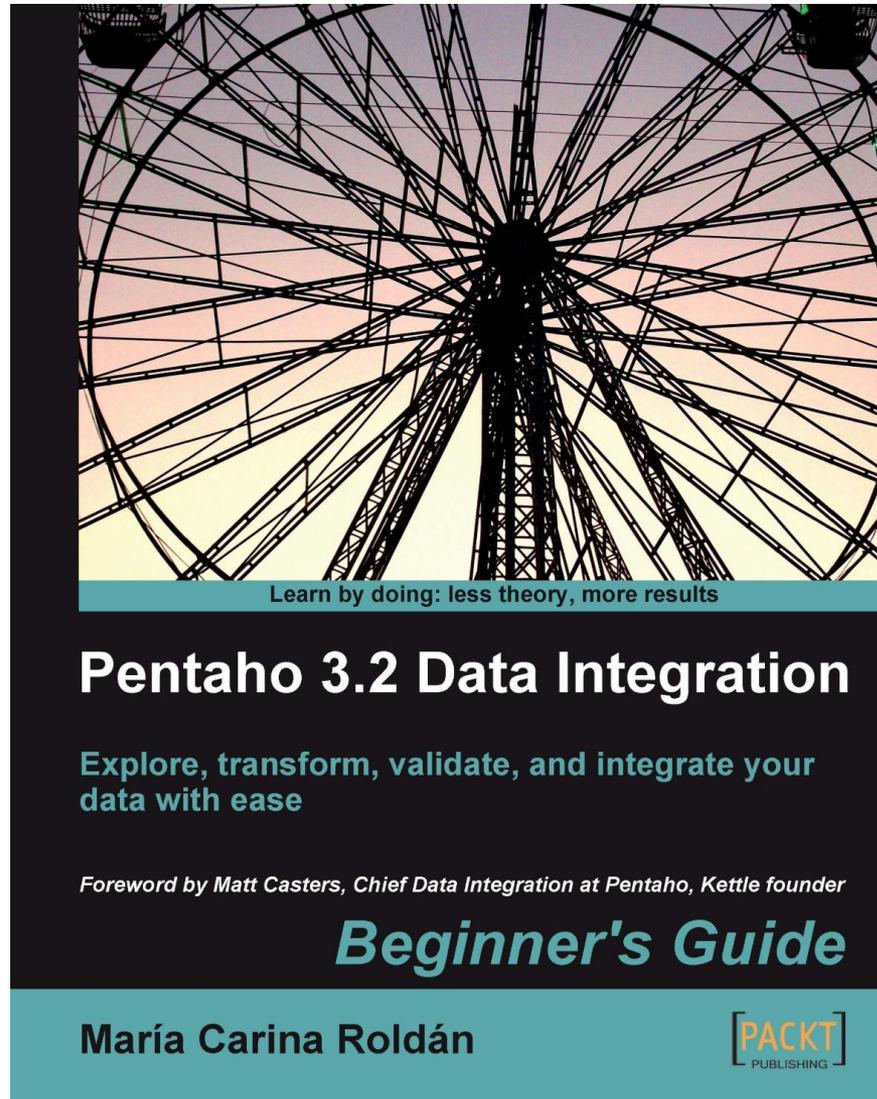
Books...



Books...



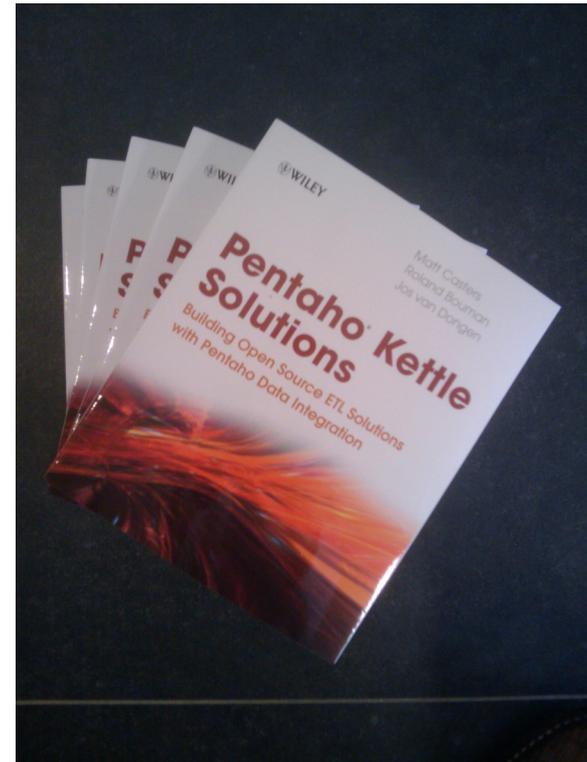
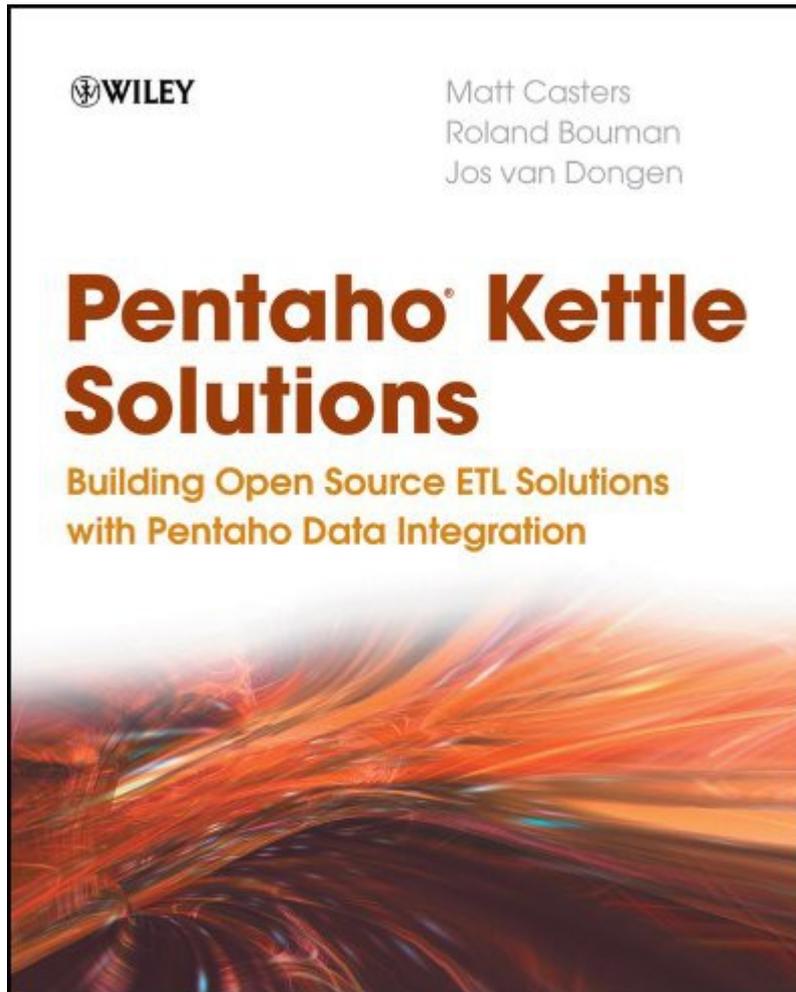
Books...



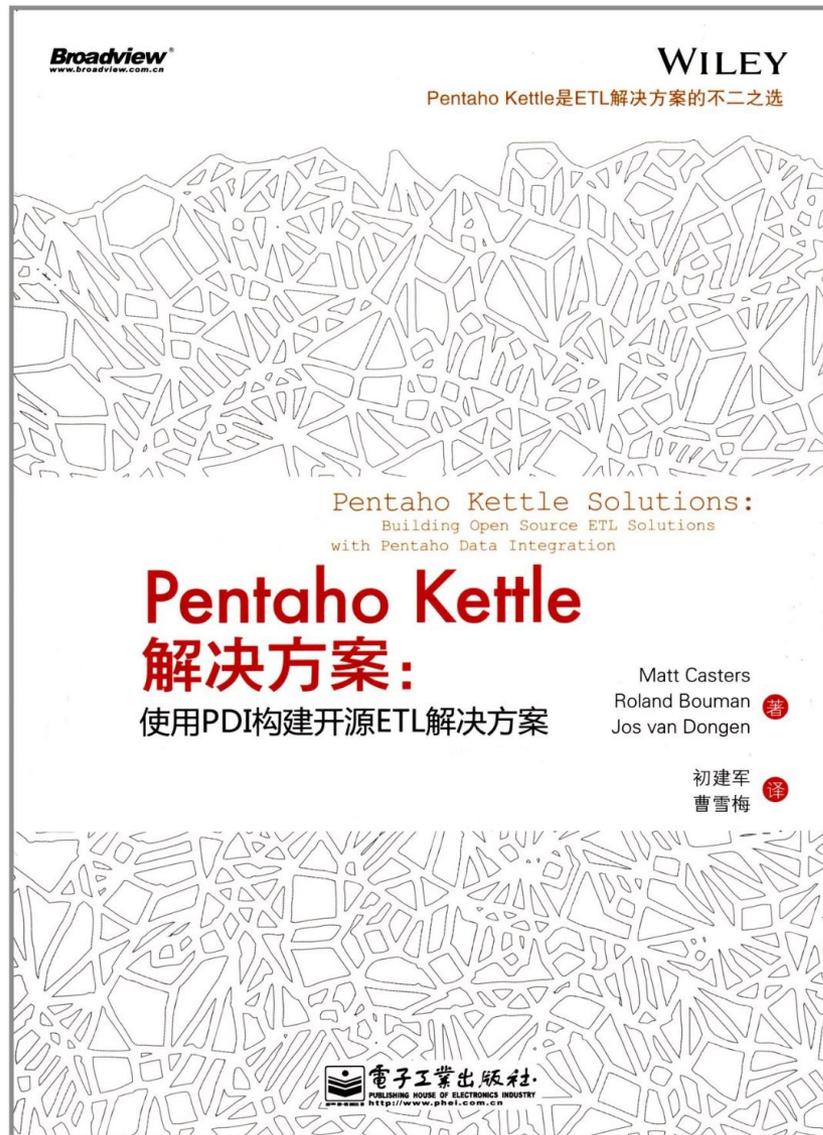
Books...



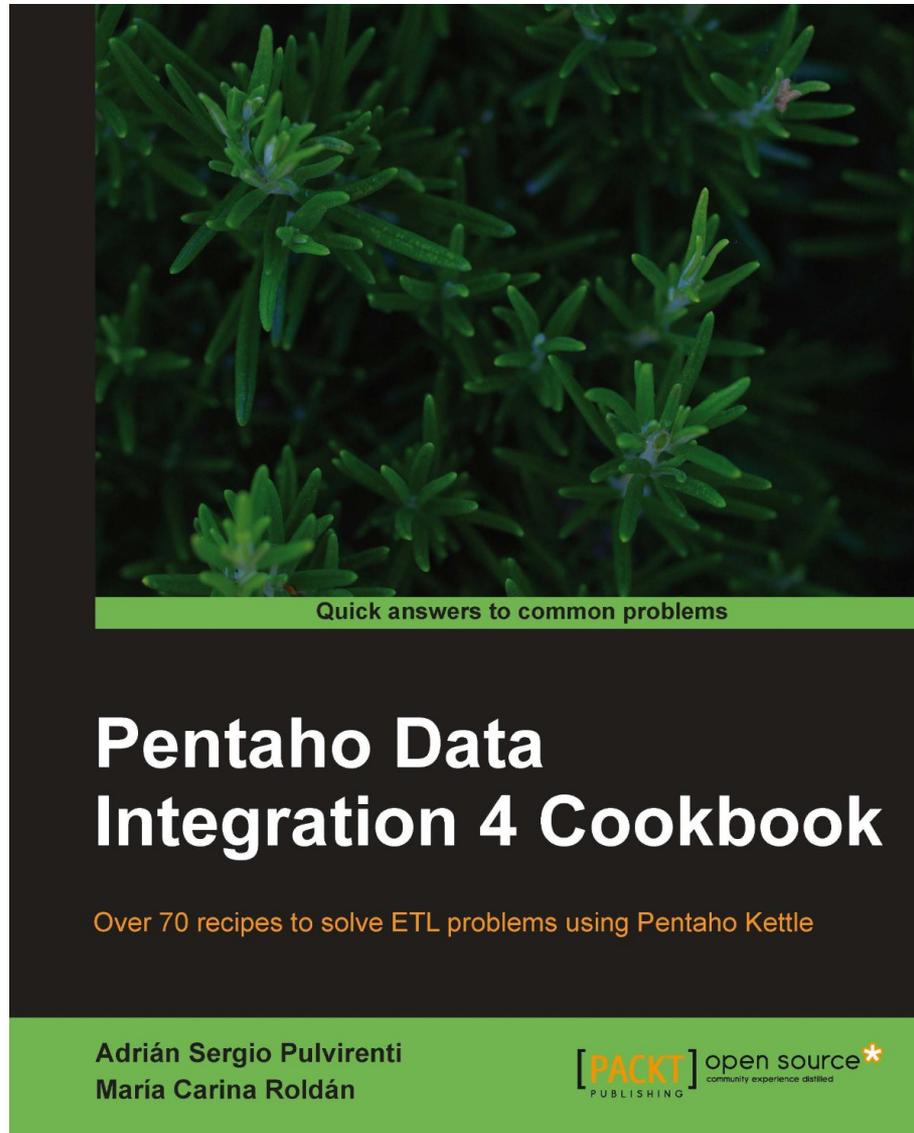
Books...



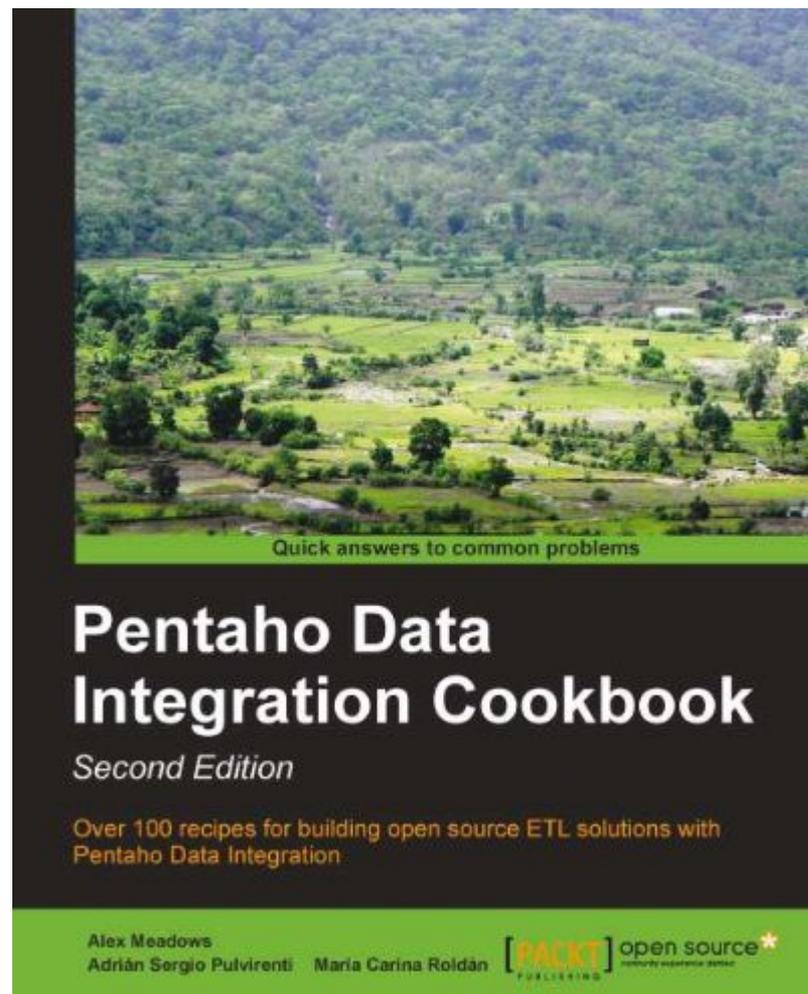
Books...



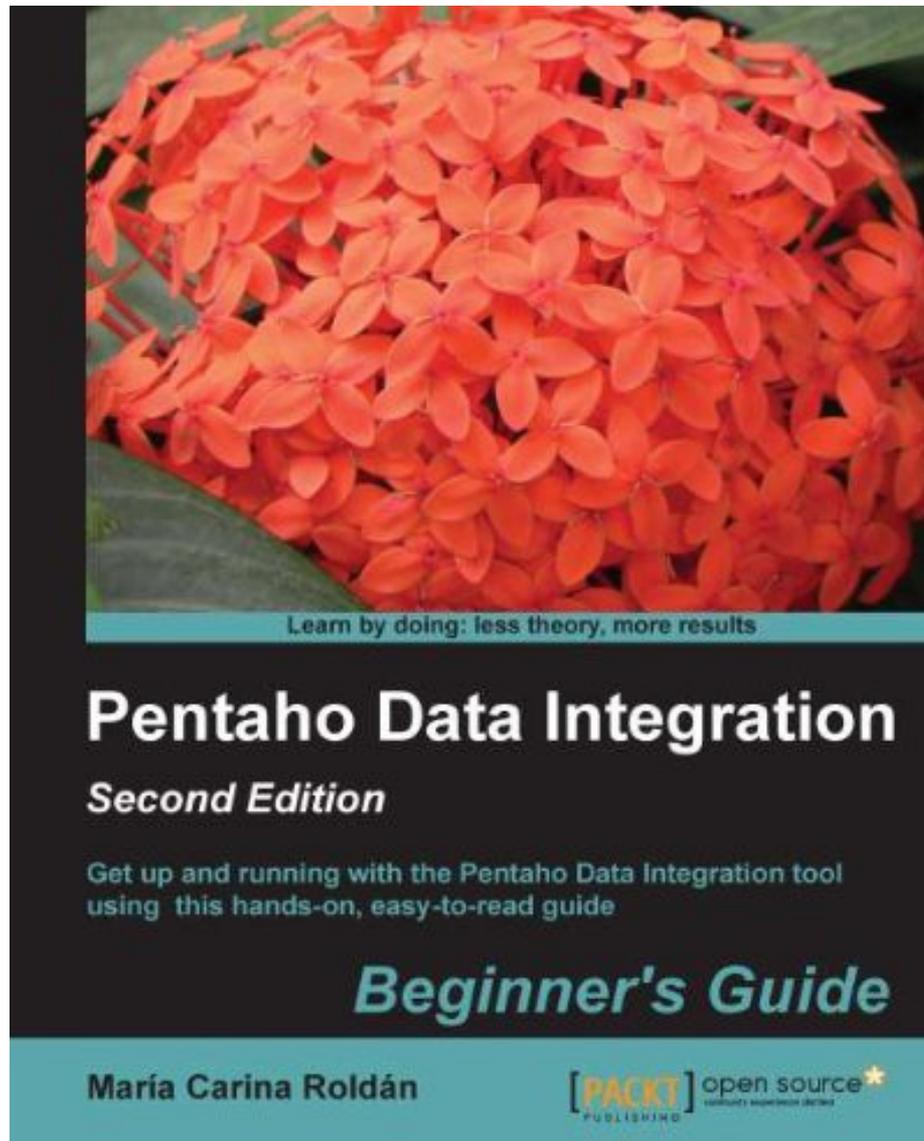
Books...



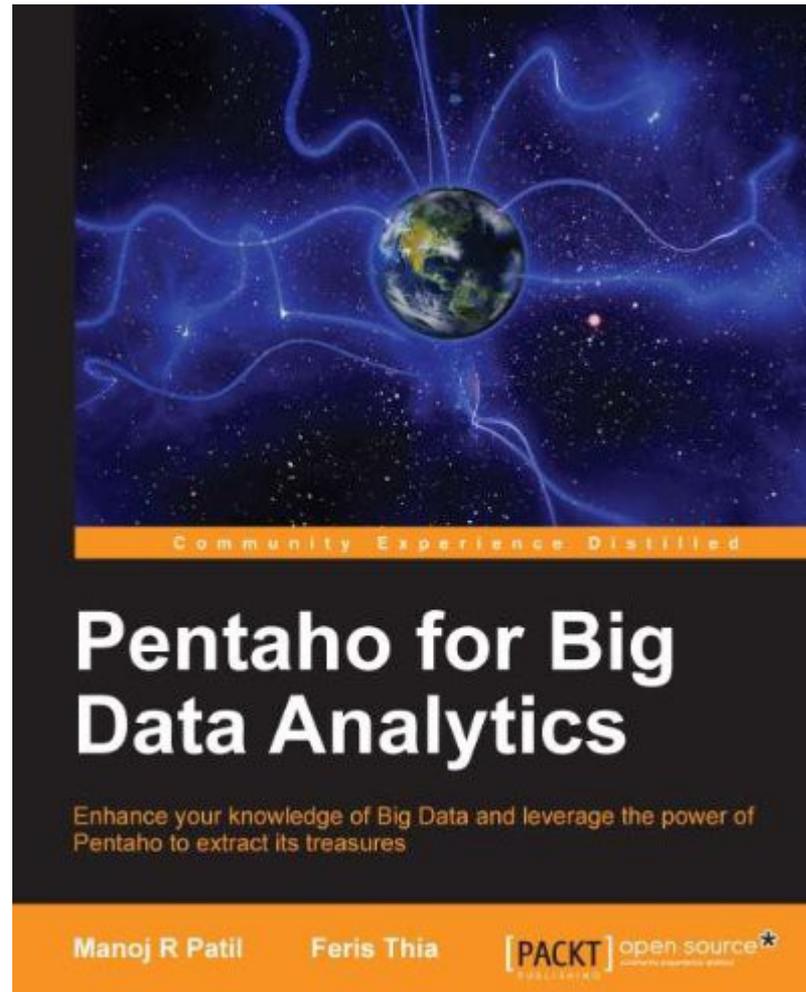
Books...



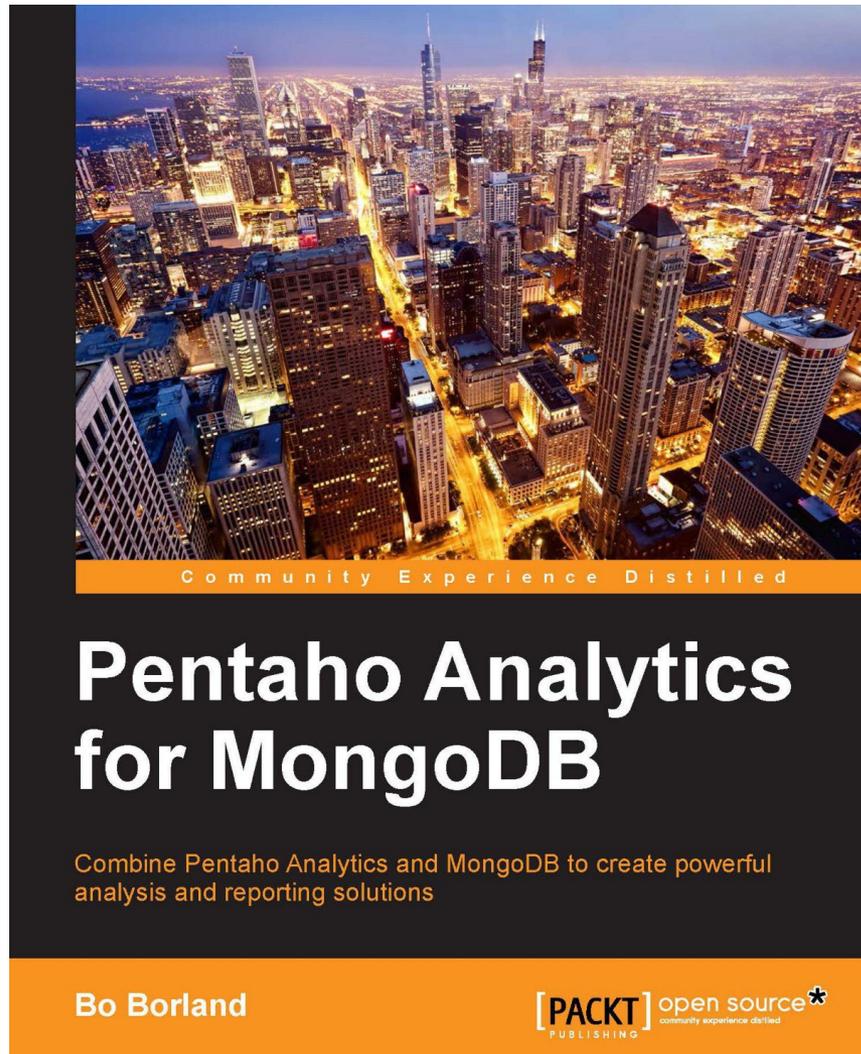
Books...



Books...



Books...



Only one thing to say...

Thank You

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