



Software Engineering Conference 1



Overview

1. **Project information**
2. Innovation and requirements
3. Tools and configuration
4. Quality Assurance
5. Why choose Salesmen?



Project informatie

Salesmen

salesman |'sālzmən|

noun (pl. -men)

a man whose job involves selling or promoting commercial products.



Project information

Salesmen

Professional

Fast

Smooth

Smart



Project information

Team

- ▶ Nick De Cooman
- ▶ Jonathan Jeurissen
- ▶ Sina Khakbaz Heshmati
- ▶ Jorne Laton
- ▶ Bart Maes
- ▶ Patrick Provinciael
- ▶ Wouter Van Rossem

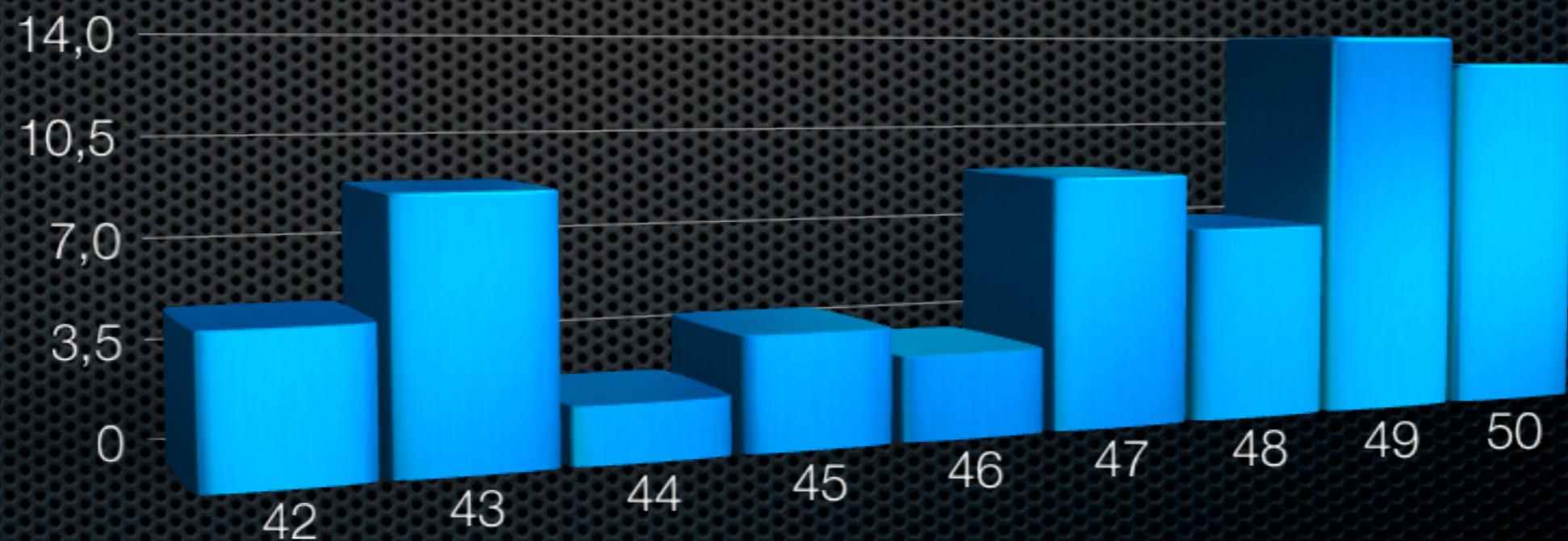


Project information

Team

Nick De Cooman

- ▶ Project manager
- ▶ Assistant Design manager



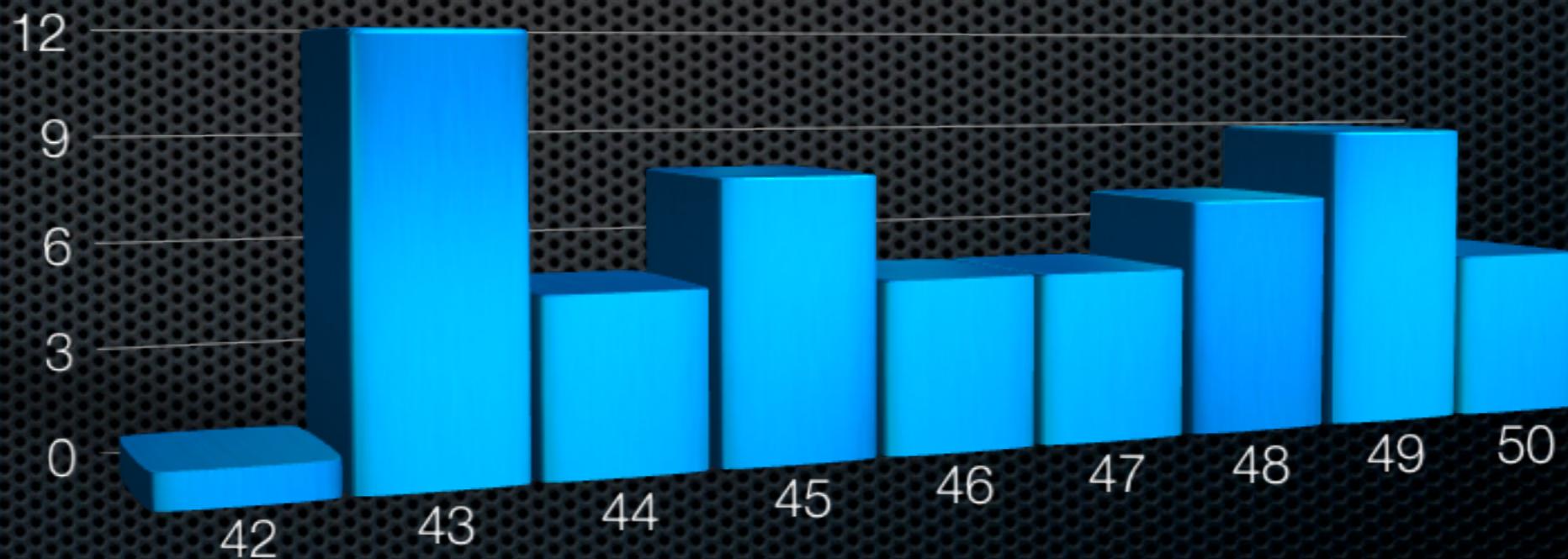


Project information

Team

Jonathan Jeurissen

- ▶ Project secretary
- ▶ Assistant Requirement manager



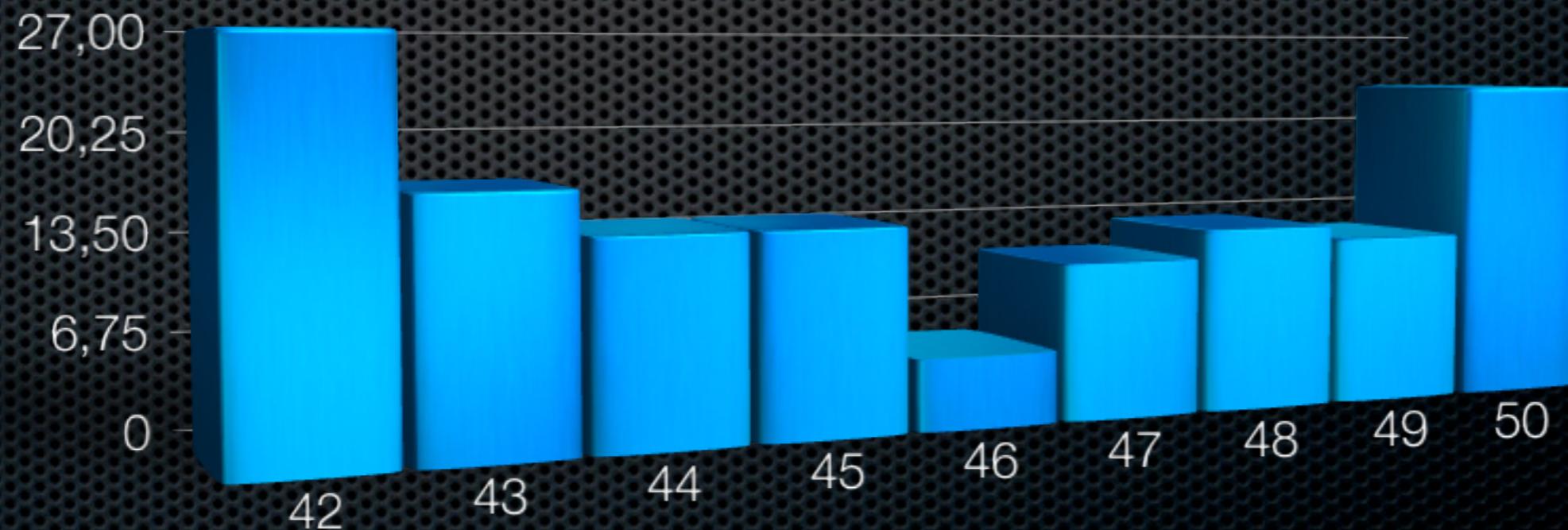


Project information

Team

Sina Khakbaz Heshmati

- ▶ Webmaster
- ▶ Implementation Manager
- ▶ Assistant Configuration manager



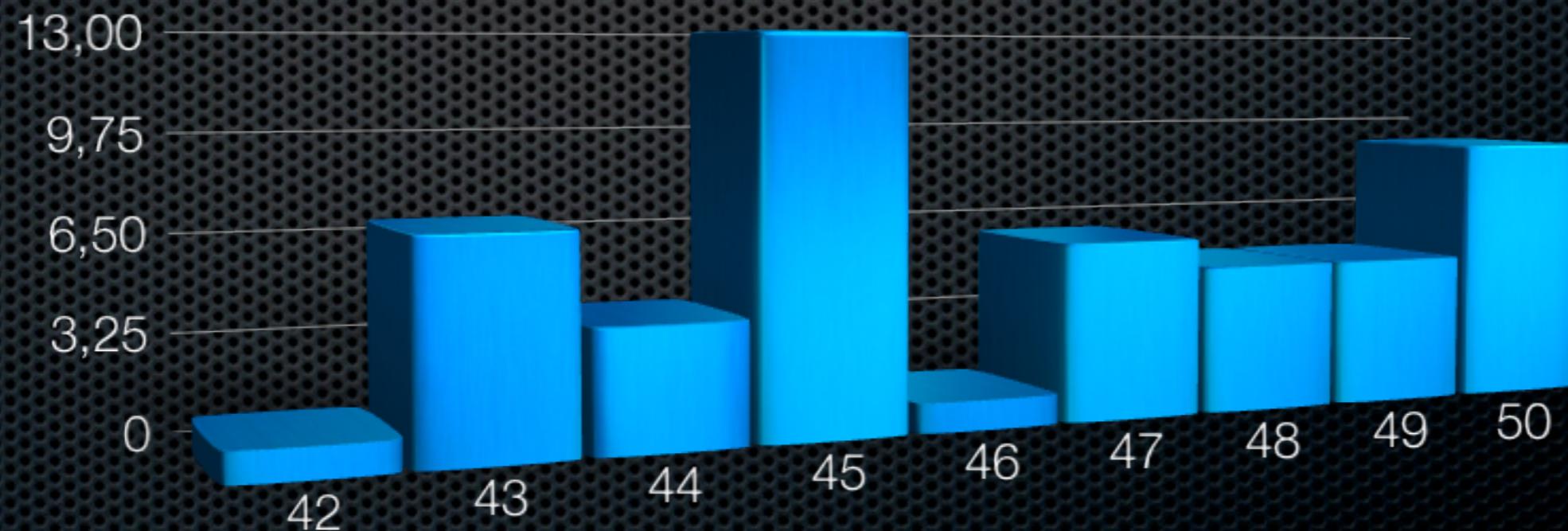


Project information

Team

Jorne Laton

- ▶ Configuration Manager
- ▶ Assistant Implementation manager



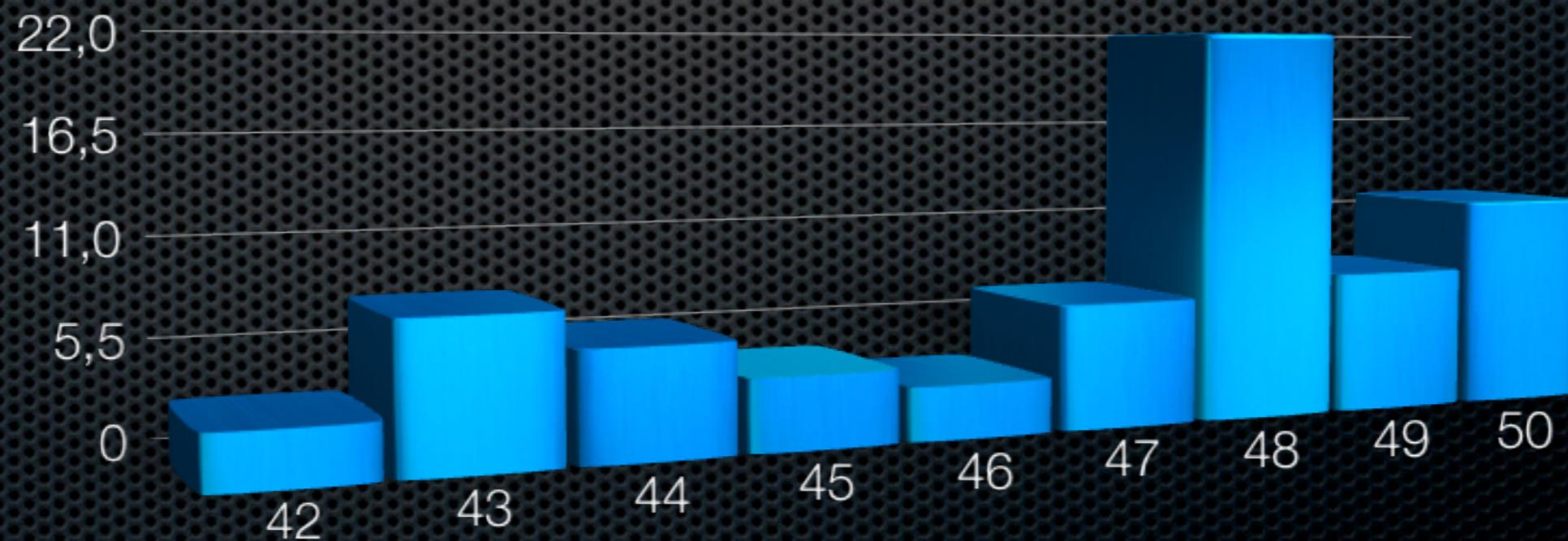


Project information

Team

Bart Maes

- ▶ Design Manager
- ▶ Assistant QA manager



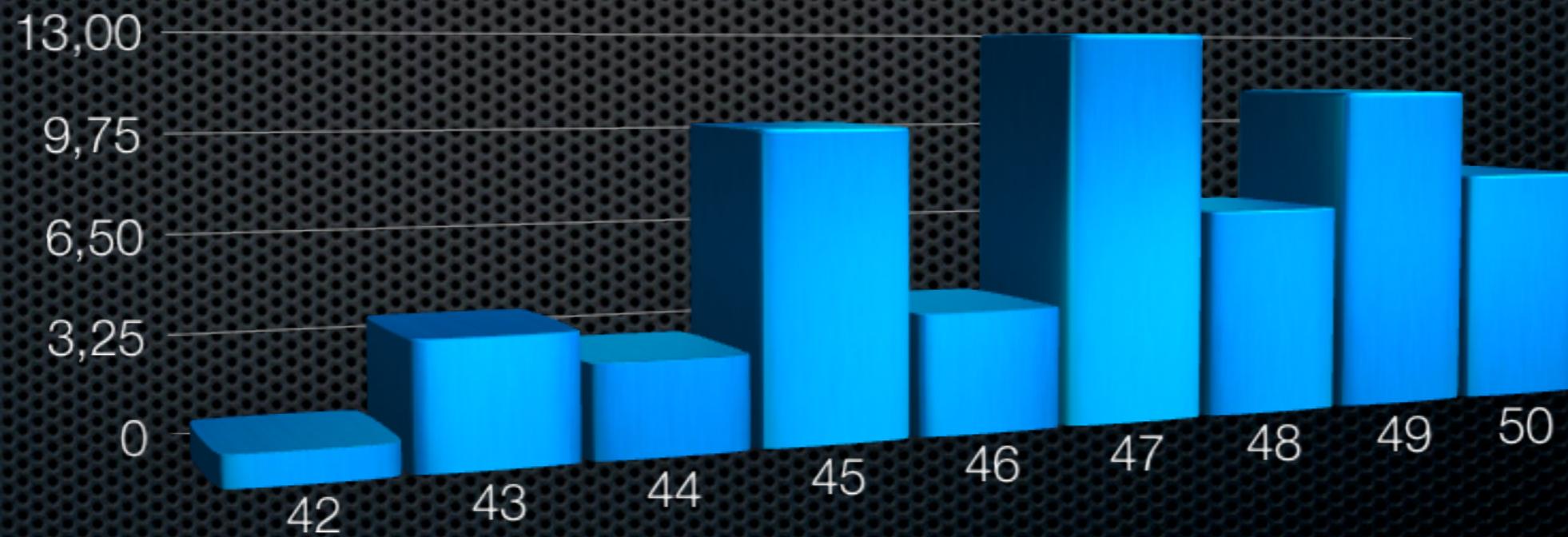


Project information

Team

Patrick Provinciael

- ▶ Quality Assurance Manager
- ▶ Assistant Project Manager



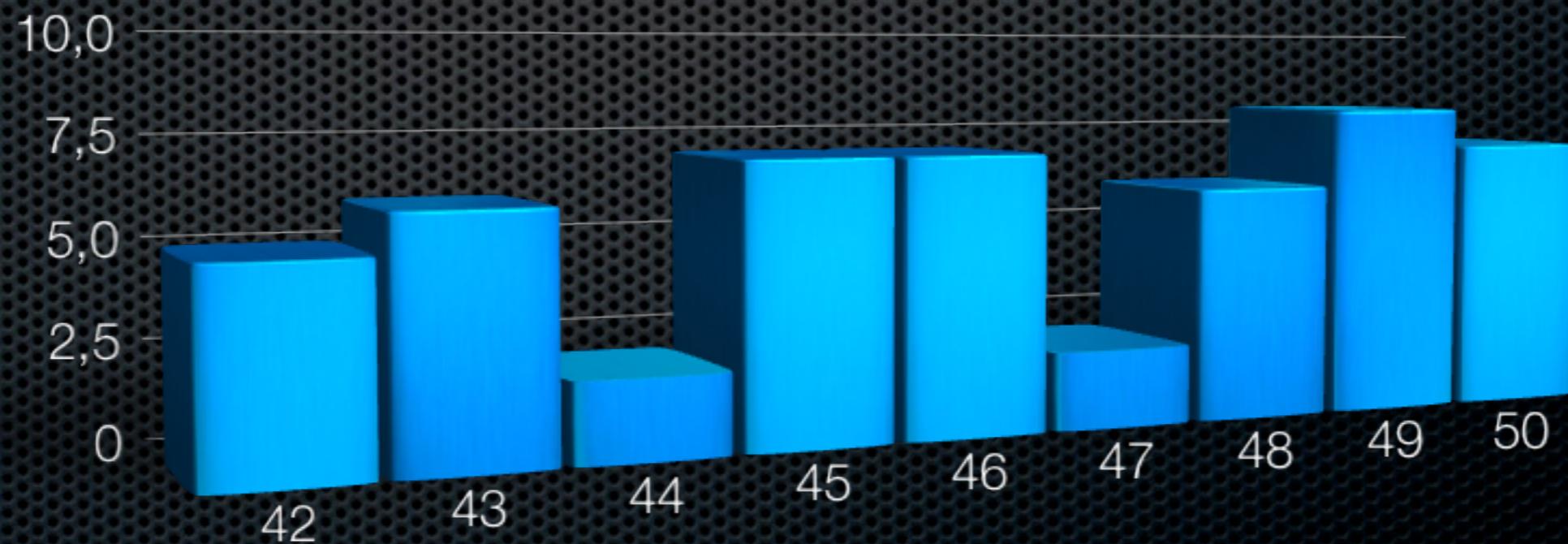


Project information

Team

Wouter Van Rossem

- ▶ Requirement Manager
- ▶ Assistant Webmaster
- ▶ Assistant Project Secretary

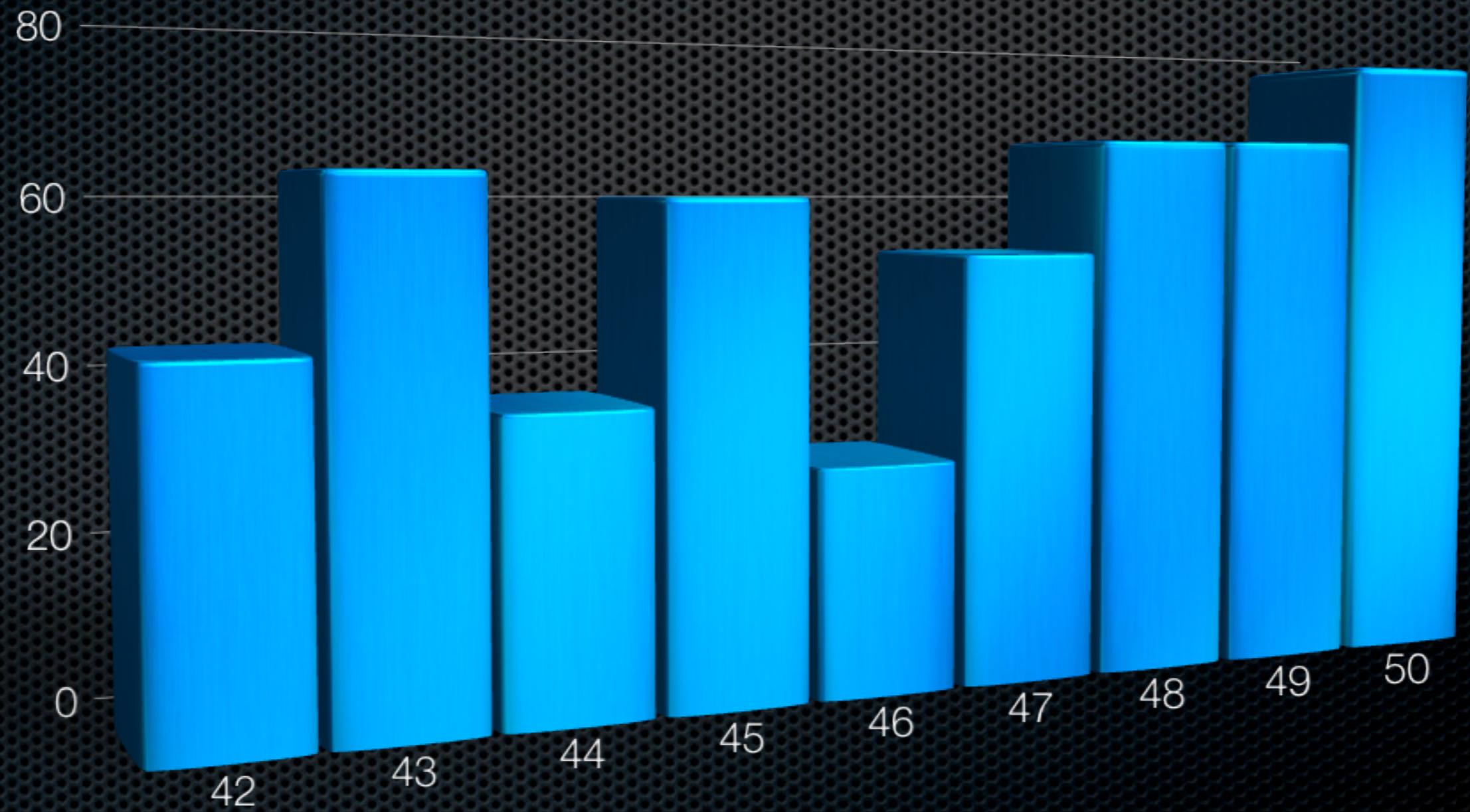




Project information

Statistics

Total amount of hours/week

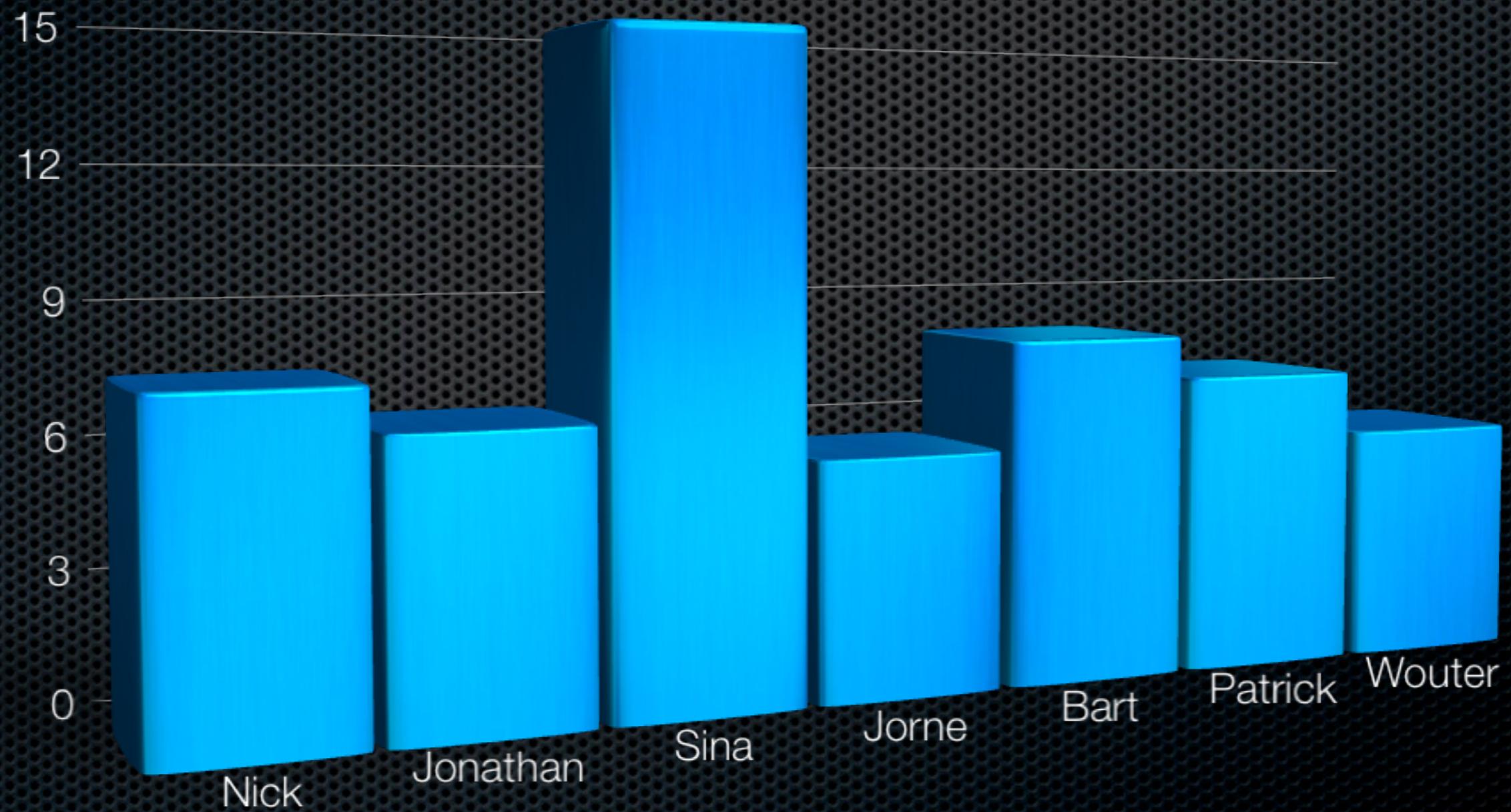




Project information

Statistics

Average number of hours/week

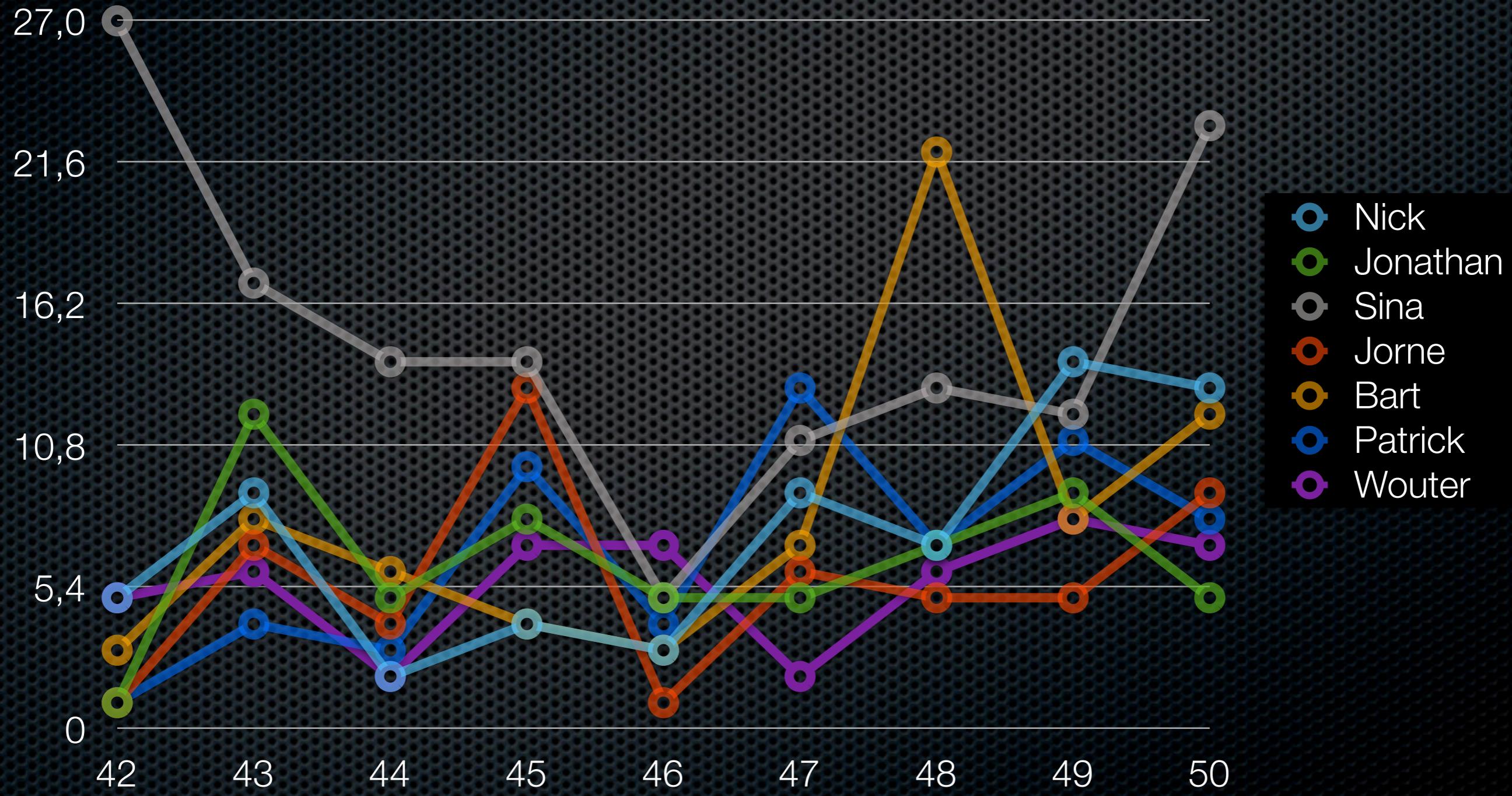




Project information

Statistics

Total amount of hours/week/team member





Project information

Statistics

Total amount of hours:

494 h

Average amount of hours/week:

55 h

Average amount of hours/week/person:

7,8 h



Project information

Costs

Start wage: € 2200 / month gross
152 hours to work / month

€14,5
per hour

Total amount of working hours: 494 hours

Current cost: €7.163,00



Project information

Costs

Average number of hours/week: 55 hours

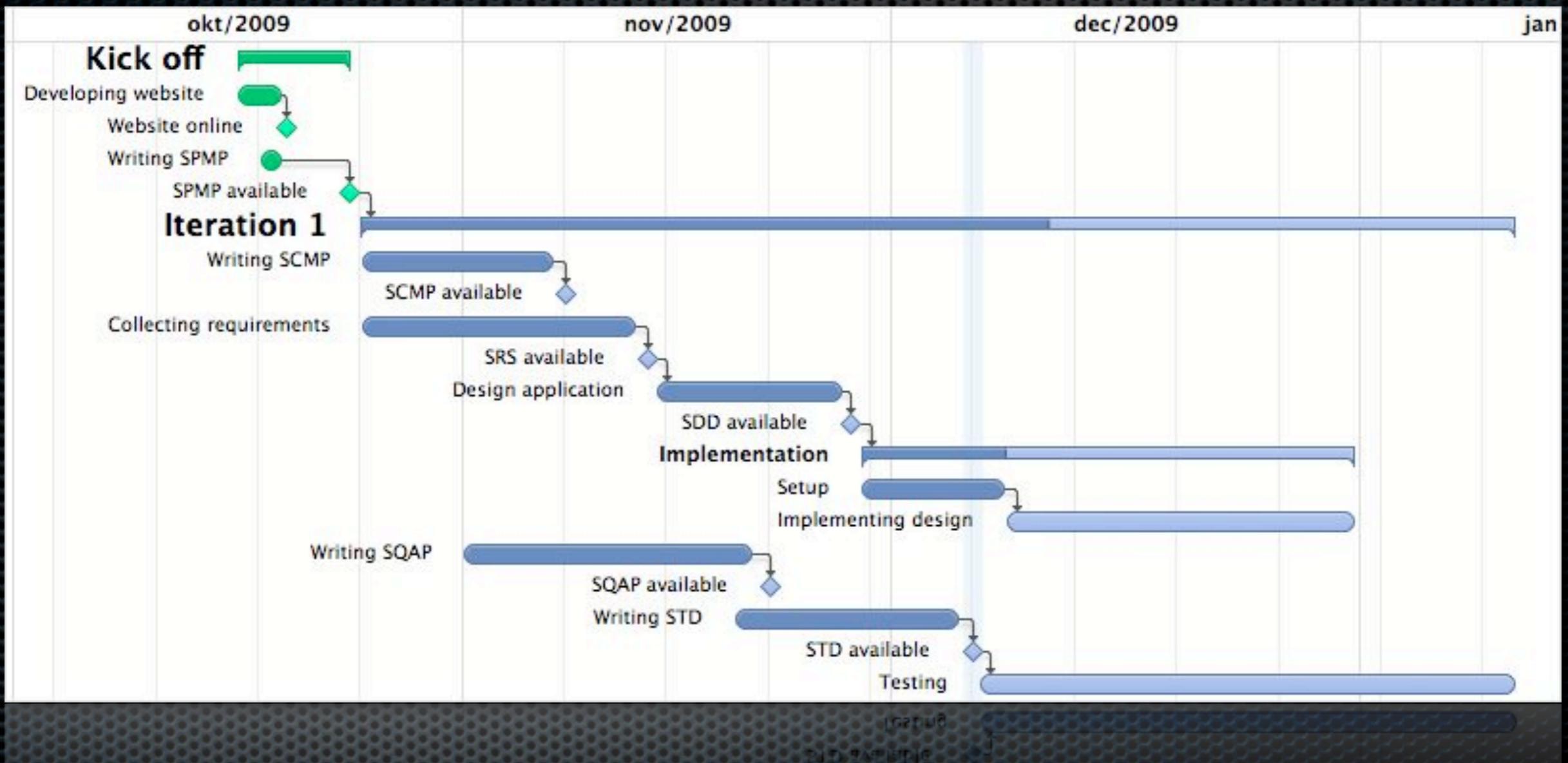
Expected number of weeks: 27 weeks

Total estimation of costs: €21.530



Project information

Planning





Project information

Open-source

Communication online available for anyone

<http://groups.google.com/group/salesmen>



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Innovation and requirements

Introduction

Advantages for

- ▶ Buyers
- ▶ Sellers
- ▶ Administrators



Innovation and requirements

Advantages for buyers

Smooth interface

- ▶ Minimize page refreshes

Smooth



Innovation and requirements

Advantages for buyers

The screenshot illustrates a user interaction flow on the Salesmen auction website:

- Login Step:** A blue arrow points from the "Login" and "Password" fields to a yellow speech bubble containing the text "No page change!".
- Welcome Step:** A blue arrow points from the "Welcome back, Bart (some useful info)" and "Log Out" buttons to a yellow speech bubble containing the text "No page change!".
- Bidding Step:** A blue arrow points from the bid amount "€ 5,05" and the "Bid" button to a yellow speech bubble containing the text "No page change!".

UI Elements and Data:

- Header:** Salesmen logo, Mainpage, MySM, Advanced Search.
- Breadcrumbs:** Start > Motorvehicles > Cars > VW.
- Section:** Advertising (empty box).
- Auction Listing:**
 - Title:** Auction: VW Golf3 1.9 TDI (1996)
 - Image:** A small image of a yellow and white car.
 - Price:** € 5,05
 - Bid Button:** Bid now!
 - Price Input:** € 5,88
 - Buttons:** Bid
- Seller Information:** Seller name (+rating) (empty box).
- Description:** Car in excellent condition.
May need paintjob.
- Advertising:** Two empty boxes labeled "Advertising".
- Callout:** Click to change picture instantly (yellow box).



Innovation and requirements

Advantages for buyers

The screenshot shows a web application interface for 'Salesmen'. At the top left is the 'Salesmen' logo. To its right is a login form with 'Login' and 'Password' fields. Below the logo is a navigation bar with links: 'Mainpage', 'MySM', and 'Advanced Search'. A breadcrumb trail 'Start > Motorvehicles > Cars > WW' is displayed above a search bar. The search bar contains the placeholder 'Filter categories' and an 'Ok' button. A yellow callout bubble points to the search bar with the text: 'onChange: filter auction list using typed keywords'. Below the search bar is a section titled 'Advertising' which lists eight car advertisements. Each listing includes a small thumbnail image labeled '[MINI-FOTO]', the car model ('Auto 1' through 'Auto 8'), the seller's name ('Verkoper naam'), and a price ('€0,00').

* [MINI-FOTO] Auto 1	Verkoper naam	€0,00
* [MINI-FOTO] Auto 2	Verkoper naam	€0,00
* [MINI-FOTO] Auto 3	Verkoper naam	€0,00
* [MINI-FOTO] Auto 4	Verkoper naam	€0,00
* [MINI-FOTO] Auto 5	Verkoper naam	€0,00
* [MINI-FOTO] Auto 6	Verkoper naam	€0,00
* [MINI-FOTO] Auto 7	Verkoper naam	€0,00
* [MINI-FOTO] Auto 8	Verkoper naam	€0,00



Innovation and requirements

Advantages for buyers

Smooth interface

- ▶ Minimize page refreshes

Smooth

Finding auctions

- ▶ Recommended auctions
- ▶ Tags (user defined) -> Tag Cloud
- ▶ Buyers assistant

Smart



Innovation and requirements

Advantages for buyers

The screenshot shows a user interface for managing search assistants on the Salesmen website. At the top right, a yellow box displays a welcome message: "Welcome back, Bart Salespal account: €50" with a "Log Out" button below it. The main navigation bar includes links for "Mainpage", "MySM", and "Advanced Search". Below the navigation, a menu bar offers links to "Profile", "Personal details", "BuyAssistant", "Favorite Sellers", and "MyAuctions". A dashed-line box highlights the "BuyAssistant" section. Inside this box, there's a form for adding a new assistant entry. The form asks for keywords that must be present ("auto cabrio") and those that must be absent ("citroen"). An "Add" button is located at the bottom of the form. To the right of the input fields, two yellow speech bubbles state "No page change!" pointing to the "Add" button and the input fields respectively. Below the form, a list of active assistants is shown: "auto volkswagen" and "polo", each with "[remove]" and "[edit]" links to their right.



Innovation and requirements

Advantages for buyers

The screenshot shows a user interface for a website called "Salesmen". At the top right, there is a yellow box containing the text "Welcome back, Bart" and "Salespal account: €50", with a "Log Out" button below it. The main header features a stylized "S" logo inside a grey circle followed by the word "Salesmen". Below the header is a navigation bar with links: "Mainpage", "MySM", and "Advanced Search". A secondary navigation bar contains links: "Profile", "Personal details", "BuyAssistant", "Favorite Sellers", and "MyAuctions". The main content area displays a list of auctions:

Auction Type	Description	Price
Assistant-provided auctions	VW Golf 1.9 TDI	€5.05
Auctions by favorite sellers	Jesus-loves-you bumper sticker	€0.15
Recommended auctions	(empty)	

A yellow callout bubble at the bottom left of the content area points to the auction descriptions and contains the text "Auctions are clickable, page refresh".



Innovation and requirements

Advantages for buyers

Smooth interface

- ▶ Minimize page refreshes

Smooth

Finding auctions

- ▶ Recommended auctions
- ▶ Tags (user defined) -> Tag Cloud
- ▶ Buyers assistant

Smart

Instant payment possible

- ▶ Salespal

Fast



Innovation and requirements

Advantages for buyers

The screenshot shows a user interface for a platform called "Salesmen". At the top right, there is a welcome message: "Welcome back, Bart" and "Salespal account: €50", with a "Log Out" button below it. The main navigation bar includes links for "Mainpage", "MySM", and "Advanced Search". Below the navigation bar is a secondary menu with links for "Profile", "Personal details", "BuyAssistant", "Favorite Sellers", and "MyAuctions". A large central box displays the user's current balance: "Current balance: 50.00 EUR". Underneath this, there is a section titled "Transaction history" which lists three items: "Auction payment (details)", "Deposit (details)", and "Previous Balance". To the right of these items are their corresponding values: "-150.00 EUR", "+200.00 EUR", and "0 EUR".

Transaction Type	Value
Auction payment (details)	-150.00 EUR
Deposit (details)	+200.00 EUR
Previous Balance	0 EUR



Innovation and requirements

Advantages for sellers

Instant payment possible

- ▶ Salespal

Fast

Maximized exposure of auctions

- ▶ Favorite seller
- ▶ Recommended auctions
- ▶ Hot Deals

Professional



Innovation and requirements

Advantages for sellers

The screenshot shows the Salesmen website homepage with a dark background and a light gray header bar. The header features the Salesmen logo (a stylized 'S' inside a circle) and the word "Salesmen". A welcome message "Welcome back, Bart" and account balance "Salespal account: €50" are displayed, along with a "Log Out" button. Below the header is a navigation bar with links: Mainpage, MySM, and Advanced Search. The main content area is divided into several sections:

- Advertising:** A large empty rectangular box.
- Hot deals:** A section listing items:
 - VW Golf 1.9TDI '96
 - Samsung T490
 - NSD Power Ball
 - Perfume: Chanel, Egoist
 - Mountainbike 21gears[\(More\)](#)
- Browse categories:** A list of main categories:
 - * TV
 - * Audio
 - * MotorVehicles
 - Cars
 - Motors
 - Vans
 - * Clothing
 - * Books
 - * Art
 - * Traveling
- Advertising:** A large empty rectangular box.

Two yellow callout boxes provide interactive instructions:

- A yellow box points to the "Click to show more (maximize field)" link in the "Hot deals" section.
- A yellow box points to the "Click to open list of subcategories" link in the "Browse categories" section.



Innovation and requirements

For those who need more

Salesmen Pro

- ▶ Paying subscription
- ▶ Discount on placing auctions
- ▶ No advertising
- ▶ Auctions faster considered as Hot Deal
- ▶ Higher ranking of auctions in searches



Innovation and requirements

Advantages for owner

How to make money?

Salespal

% of auction to site

Advertising

Salesmen Pro



Innovation and requirements

System architecture

Three-tier architecture

- ▶ Presentation: website (xHTML + CSS)
- ▶ Business logic: Java Beans & action classes
- ▶ Data: Hibernate & PostgreSQL



Innovation and requirements

Proof of concept



Overview

1. Project information
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Tools and configuration

Why JBoss?

Reliable

Mainstream

Flexible

Comprehensive



Tools and configuration

Why Seam?

Open Standards

Rich State
Management

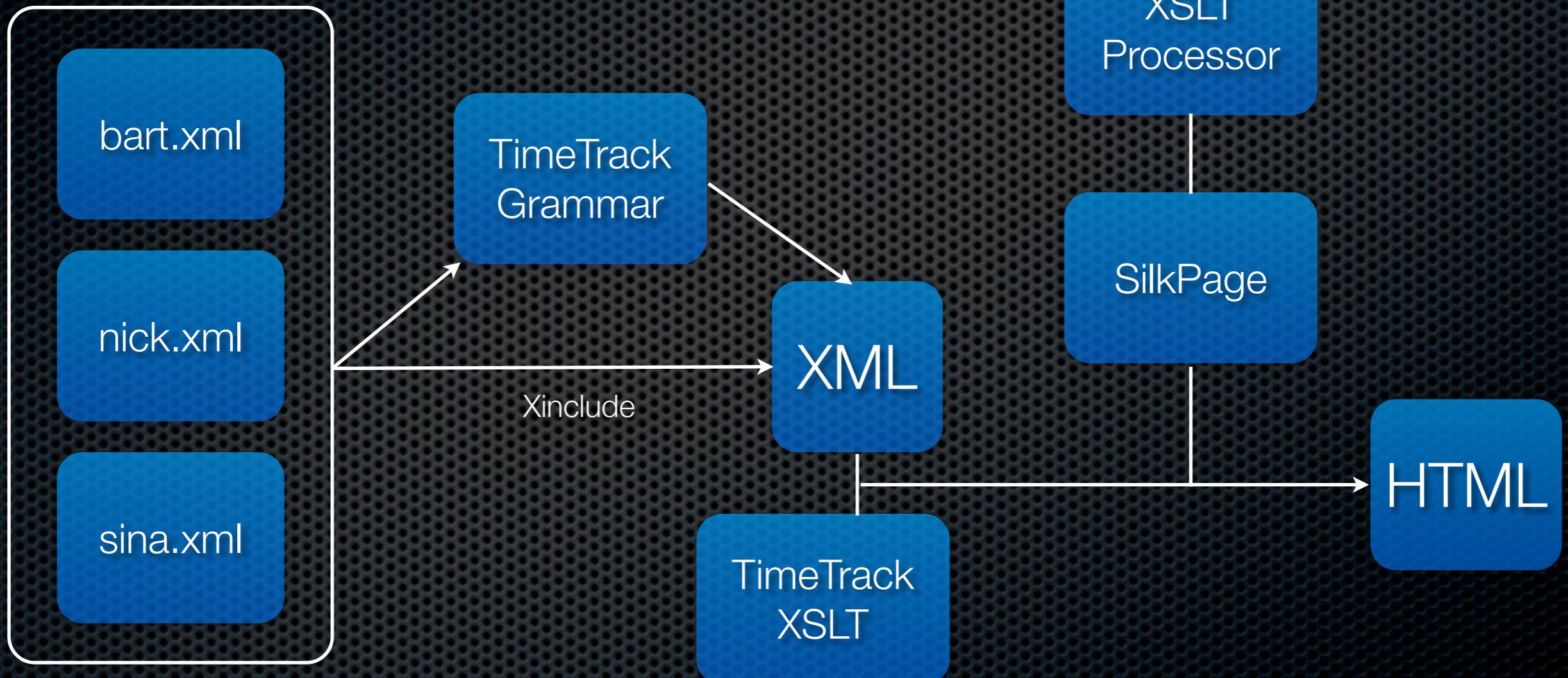
JSF-based AJAX

Goodbye Noisy XML



Tools and configuration

Timesheets





Tools and configuration

Subversion

Flexible

- ▶ Refactor early, refactor often!
- ▶ Remove and rename anything (CVS++)

Revisions

- ▶ Single revision number
- ▶ Tags not necessary

Branch/Merge

- ▶ Centralized is ideal for our dev model
- ▶ Branches for QA, bleeding-edge dev and releases



Tools and configuration

Google Code

Visual SVN

- ▶ Repository browser
- ▶ Human-friendly diffs
- ▶ Each revision has a page

Wiki: Agile documentation for developers

Issue Tracker

- ▶ Bugs, enhancements and tasks



Tools and configuration

SVN Browse

Building the software behind an online auction website.

Project Home Downloads Wiki Issues Source

[Checkout](#) | [Browse](#) | [Changes](#) | Search Trunk

Source path: svn/

- attic
- branches
- ▼minutes
 - ▼2009
 - 10
 - 11
 - 12
 - tags
 - ▼timesheets
 - 2009
 - ▼trunk
 - docs
 - utils
 - ▼www
 - ▼wilma.vub.ac.be.s
 - cfg
 - img
 - src

			< r594	r595
Beginnings.wiki	311 bytes	r593	Nov 22, 20	
Dropbox.wiki	631 bytes	r523	Dec 01, 20	
HowtoBuildWebsite.wiki	373 bytes	r571	Dec 07 (2)	
HowtoRunJBossSeamExamples.wiki	1.9 KB	r539	Dec 04 (5)	
HowtoSetupEclipse.wiki	2.0 KB	r590	Today (7 h)	
HowtoSubmitTimesheet.wiki	2.5 KB	r71	Oct 23, 20	
HowtoSynCommandLine.wiki	1.6 KB	r67	Oct 22, 20	
JavaCodingConvention.wiki	1.6 KB	r587	Yesterday	
LatexTemplate.wiki	3.1 KB	r376	Nov 21, 20	
NextMeetingTopics.wiki	1.7 KB	r478	Nov 28, 20	
Requirements.wiki	3.3 KB	r325	Nov 15, 20	
RequirementsInterview.wiki	2.5 KB	r95	Oct 26, 20	
RequirementsSuggestions.wiki	2.6 KB	r457	Nov 28, 20	



Tools and configuration

SVN Diff

salesmen Search projects

Building the software behind an online auction website.

Project Home Downloads Wiki Issues **Source**

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Changes to /timesheets/2009/week49/timesheet.xml r520 vs. r548 [Edit](#) [r520](#) [r548](#) [r569](#)

Revision r548 Go to: ...sheets/2009/week49/timesheet.xml ▾ Project members, [sign in](#) to write a code review

/timesheets/2009/week49/timesheet.xml r520 <pre>1 <?xml version='1.0'?> 2 <timesheets 3 xmlns="http://purl.org/net/timetrack" 4 xmlns:xi="http://www.w3.org/2001/XInclude" 5 from="2009-12-1" 6 to="2009-12-8" 7 xml:id="week49-2009"> 8 <title>VUB - SE2 Timesheets for the 49th Week of 2009</title> 9 <published>2009-12-1</published> 10 <updated>2009-12-1</updated> 11 <person> 12 <name>Nick De Cooman</name> 13 <name>Nick De Cooman</name> 14 <bezeen> 15 <opgave>2009-12-01</opgave> 16 <opgave>2009-12-02</opgave> 17 </bezeen> 18 </person> 19</timesheets></pre>	/timesheets/2009/week49/timesheet.xml r548 <pre>1 <?xml version='1.0'?> 2 <timesheets 3 xmlns="http://purl.org/net/timetrack" 4 xmlns:xi="http://www.w3.org/2001/XInclude" 5 from="2009-11-30" 6 to="2009-12-07" 7 xml:id="week49-2009"> 8 <title>VUB - SE2 Timesheets for the 49th Week of 2009</title> 9 <published>2009-12-06</published> 10 <updated>2009-12-06</updated> 11 <person> 12 <name>Nick De Cooman</name> 13 <name>Nick De Cooman</name> 14 <bezeen> 15 <opgave>2009-12-01</opgave> 16 <opgave>2009-12-02</opgave> 17 </bezeen> 18 </person> 19</timesheets></pre>
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Tools and configuration

SVN Revision

Salesmen
Building the software behind an online auction website.

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Revision: r593 [r592](#) [r593](#) [r594](#)

Author: sina.heshmati
Date: Today (2 hours ago)
Review scores: No one has yet scored this revision.

Log message

Published STD v0.1

Affected files [expand all](#) [collapse all](#)

⊕ Modify /trunk/www/wilma.vub.ac.be/se2_0910/src/css/salesmen.css	diff
⊕ Add /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/docs/std	diff
⊕ Add /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/docs/std/archive	diff
⊕ Add /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/docs/std/doap.rdf	diff
⊕ Add /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/docs/std/index.xml	diff
⊕ Add /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/docs/std/urfm.rdf	diff
⊕ Modify /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/index.xml	diff
⊖ Modify /trunk/www/wilma.vub.ac.be/se2_0910/src/xml/en/layout.xml	diff

62 62 <tocentry page="docs/spmp/index.xml" dir="spmp"	
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64 64 <tocentry page="docs/sqap/index.xml" dir="sqap"	
65 + filename="index.html"/>	
66 + <tocentry page="docs/std/index.xml" dir="std"	
67 + filename="index.html"/>	



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Quality Assurance

Why Quality Assurance?

Company 1

Has no QA

\$ \$ \$



customer

Company 2

Has QA

\$ \$ \$



customer



Quality Assurance

How Quality Assurance?

Quality Assured Repository

JUnit Testing

Team Performance



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Salesmen