

http://www.pharo.org









SCHMIDT Ingenieurbüro für Bauwesen



ZWEIIDENKER THALES





























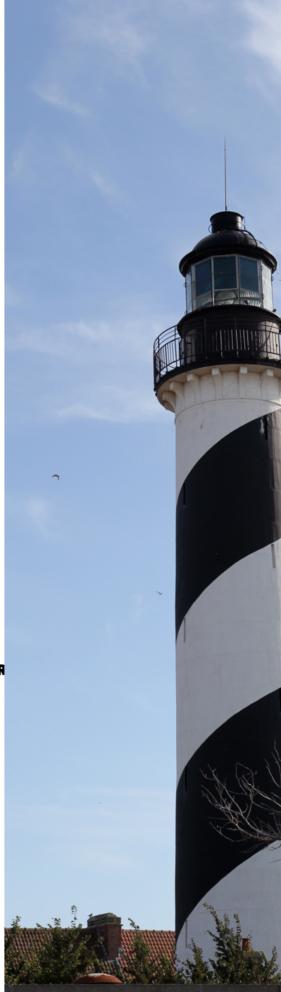












A word of presentation

Expert in language design

Traits in Php7.0, Perl60 Influenced Traits in Scala

Expert in maintenance

Program analysis, Metamodels, visualization, testing, refactorings, metrics....



Building *specific* analysis tools for important running business software (Ada, Cobol, 4D, C, C++, Java...)

Dedicated tools to support decision making process





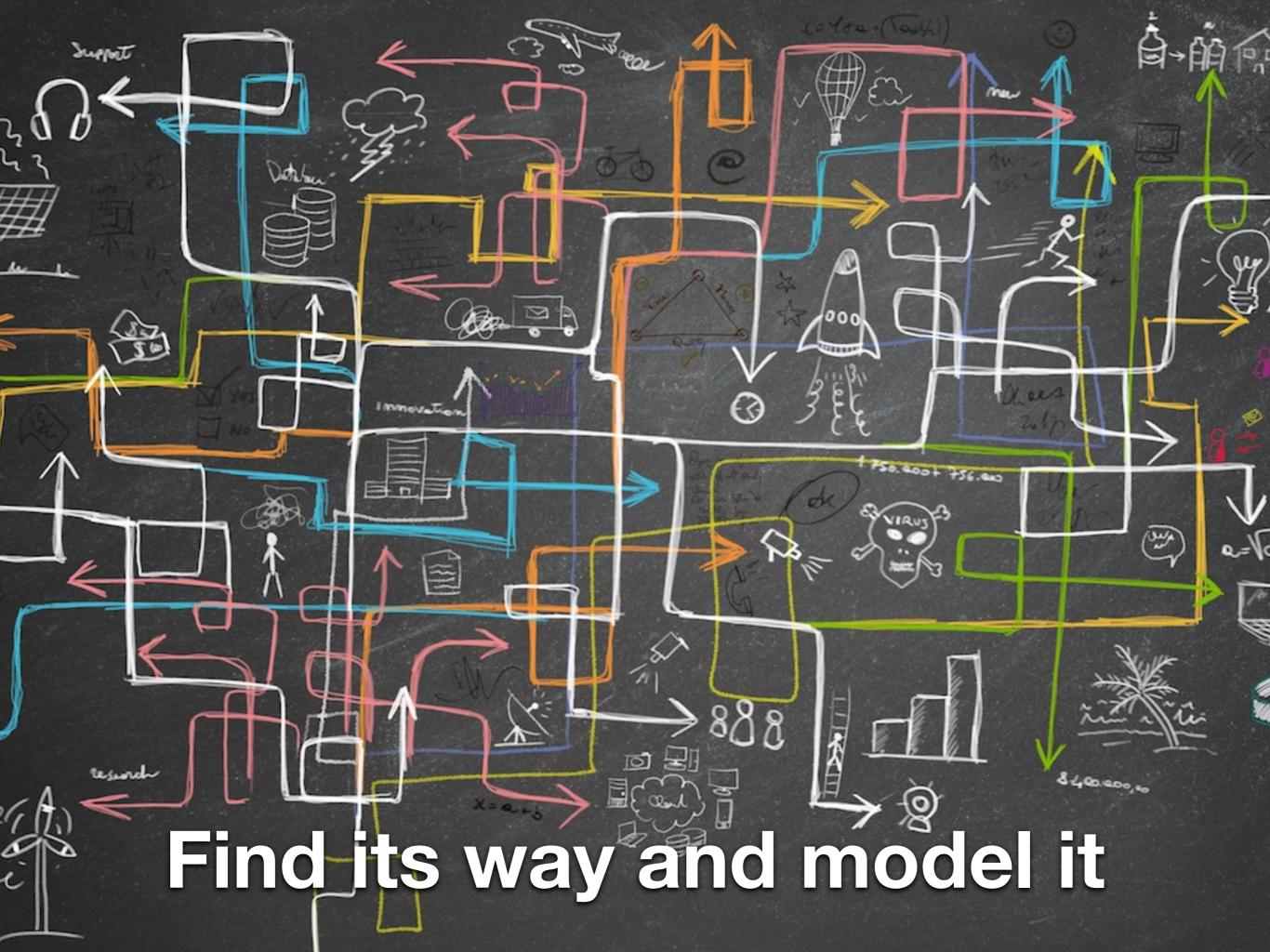














Pharol

- System: Pure object language + full IDE
- Powerful, elegant and fun to program
- Great community / industrial consortium
- Living system under your fingers
- Works on Mac OSX, Linux, iOS,
 Android, Windows, Pi 100% MIT

Elegant

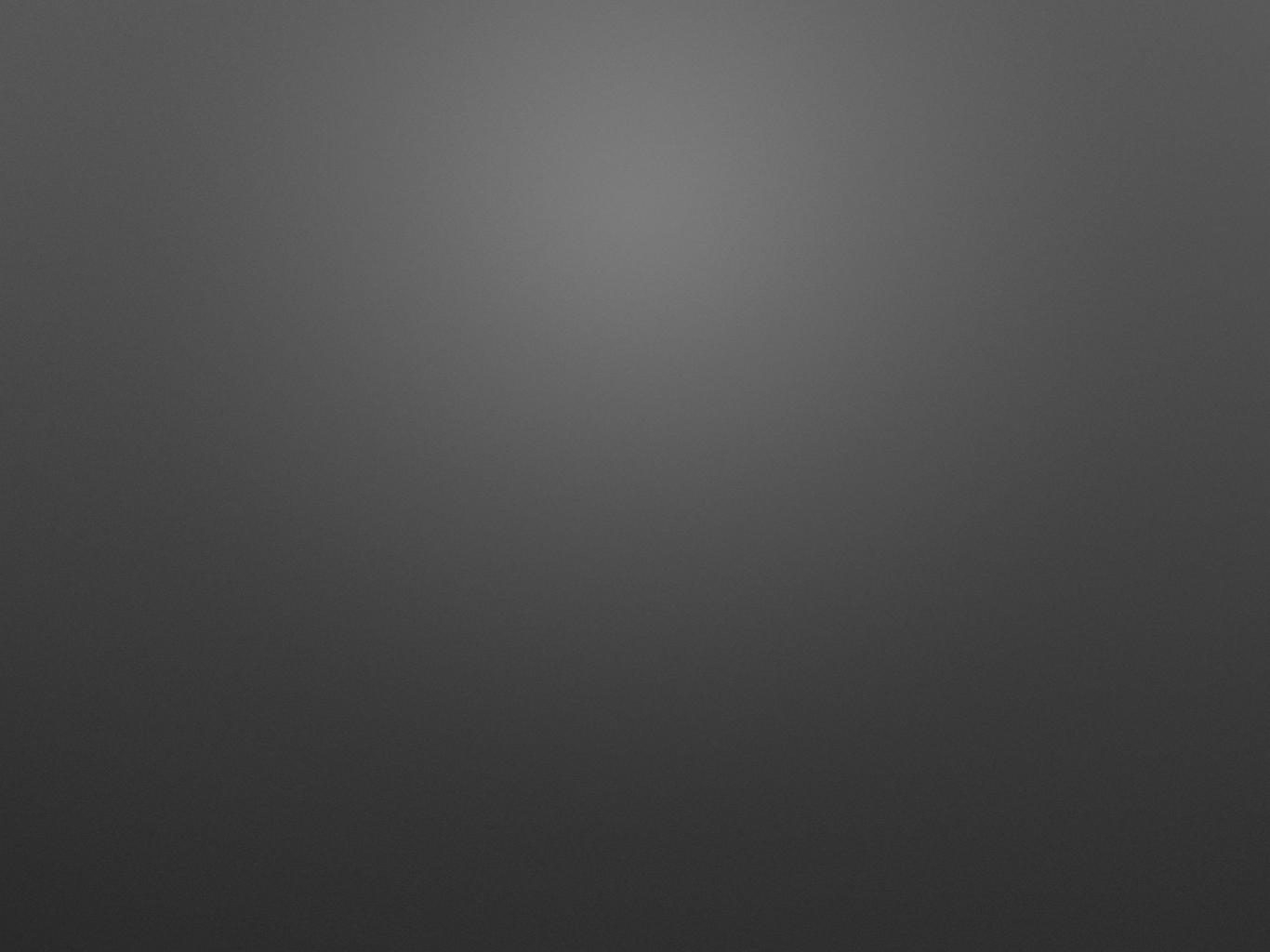
- Full syntax on a postcard
- Simple and powerful objet model

Leuchttürme

Full Syntax!

```
exampleWithNumber: x
   "A method that illustrates every part of Smalltalk method syntax"
    <menu>
   | y |
    true & false not & (nil isNil) ifFalse: [self halt].
   y := self size + super size.
    #($a #a 'a' 1 1.0)
        do: [:each | Transcript
                show: (each class name);
                show: (each printString);
                show: ' '].
    ^ x < y
```

Yes the full Syntax!



Leuchttürme

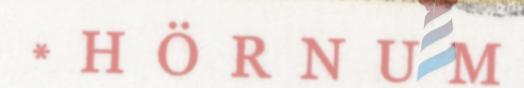
Full Syntax!

```
exampleWithNumber: x
   "A method that illustrates every part of Smalltalk method syntax"
    <menu>
   | y |
    true & false not & (nil isNil) ifFalse: [self halt].
   y := self size + super size.
    #($a #a 'a' 1 1.0)
        do: [:each | Transcript
                show: (each class name);
                show: (each printString);
                show: ' '].
    ^ x < y
```

Leuchttürme

Full Model!

- * Dynamically typed
- * Everything is an object instance of a class
- * All methods are public virtual
- * All attributes are protected
- * Single inheritance + Traits
- * Closures everywhere



Focus on intrinsic complexity

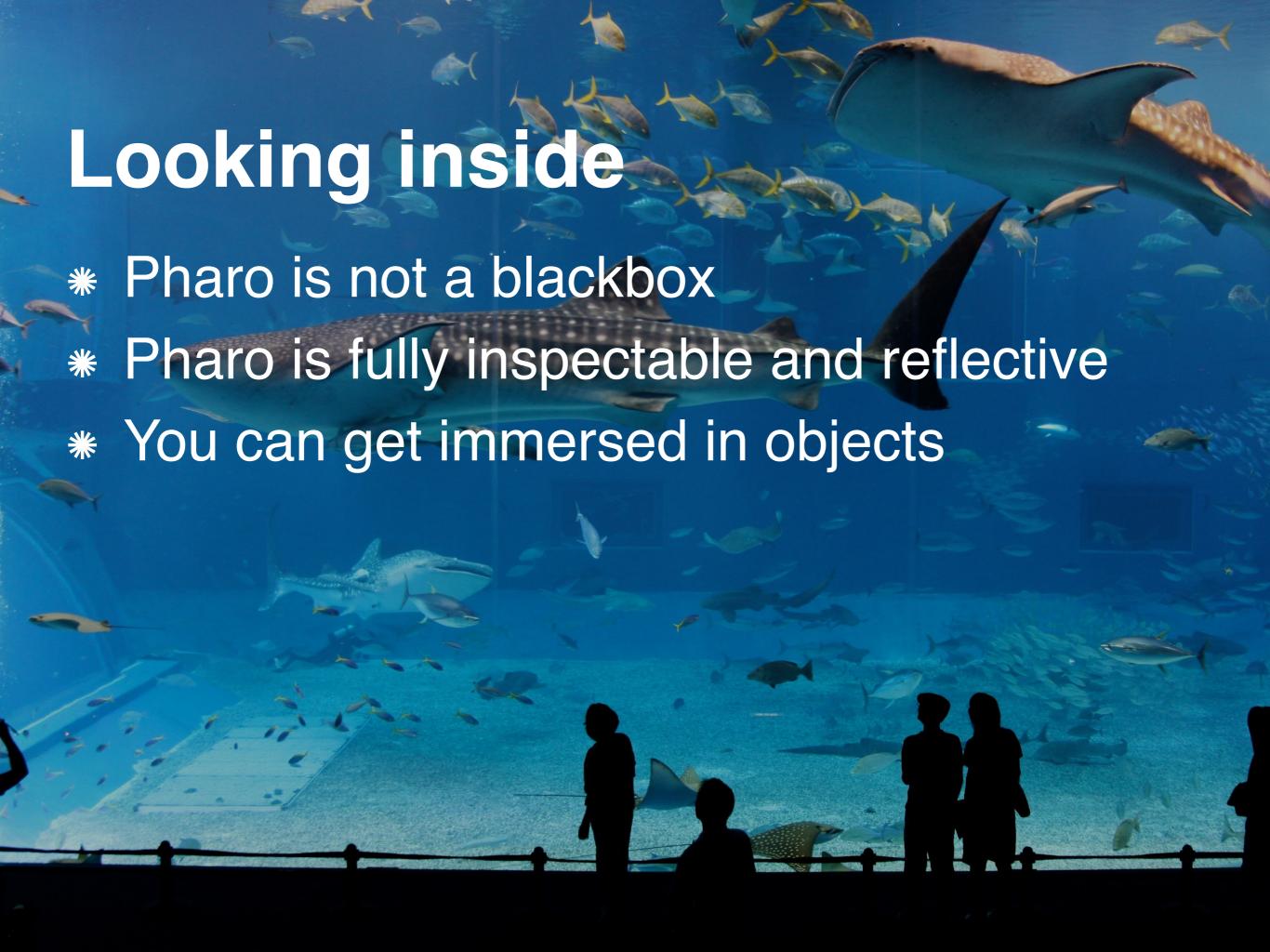
Eliminate accidental complexity



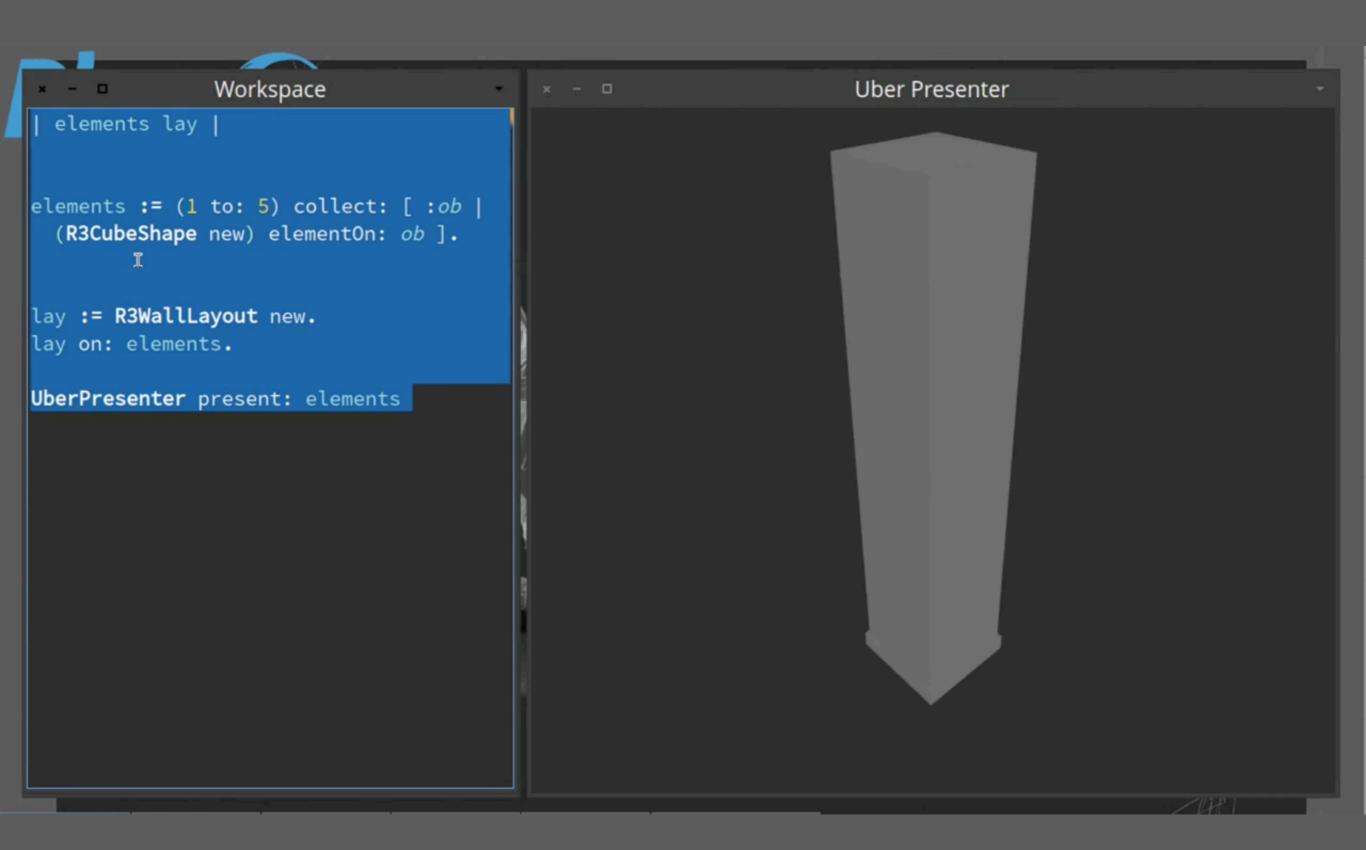
Learn Adapt Modify

Pharo is highly immersive

Most languages do not expose much

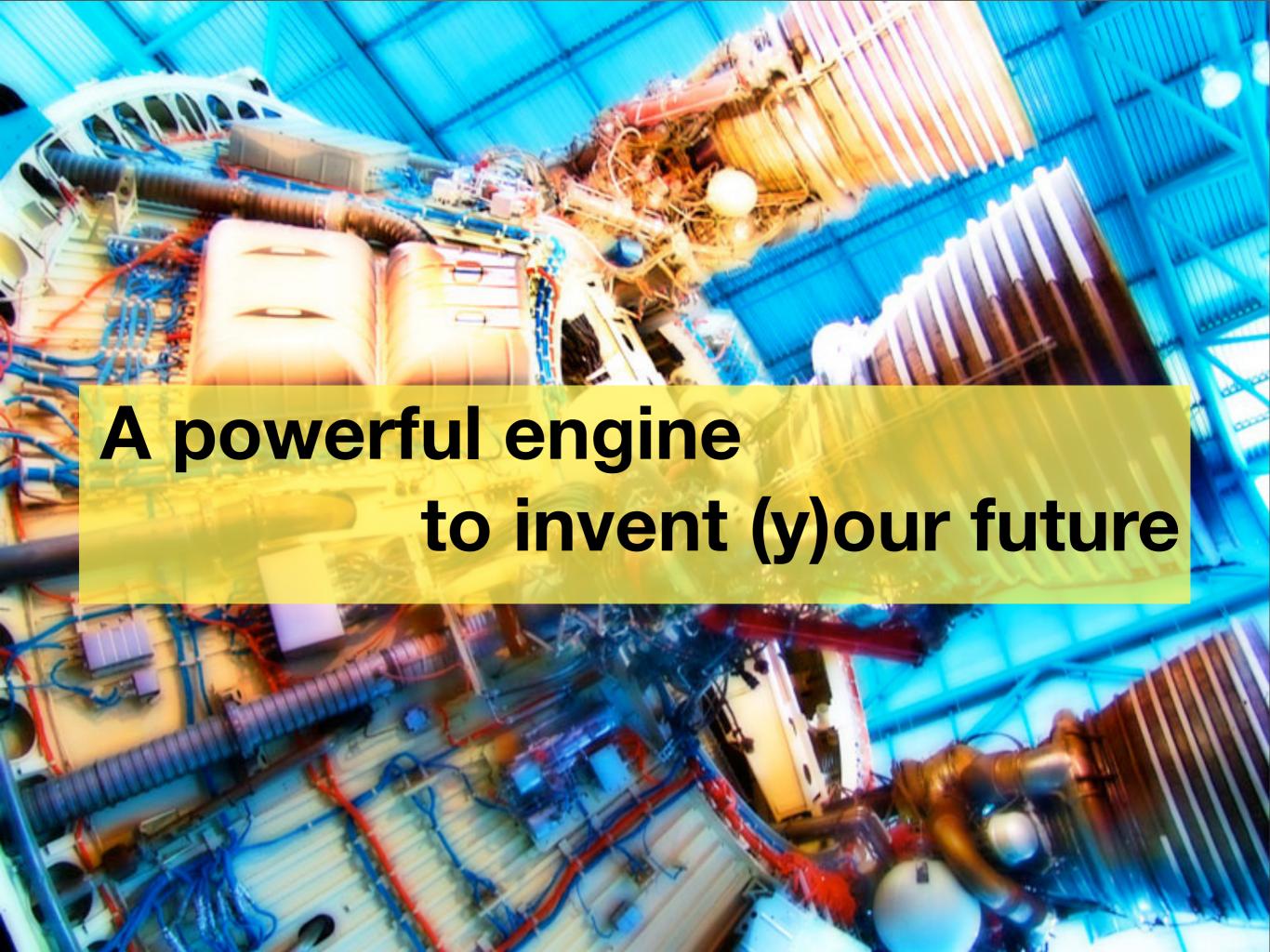






We can do the same with web app, sockets, networks, sensors, living programing....

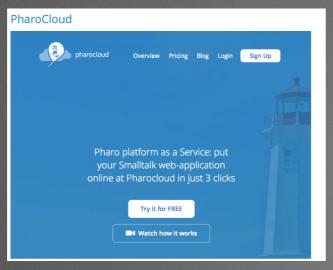
Pharo's goal...





- ... that **you** can make money with Pharo.
- ... to be able to invent solutions to existing problems.
- ... a powerful innovative dynamic language where we can build (y)our future.





iBizLog - http://www.ibizlog.com

BizLog





- Design and create individual printed matter
- eShop with credit card payment
- High quality PDF output with Printing Process integration
- Thousands of orders for seven Swiss printing companies

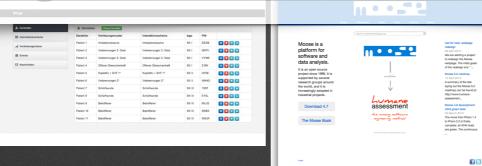




Yesplan is veelzijdige software voor het efficiënt plannen van evenementen. Yesplan is uiterst gebruiksvriendelijk, flexibel en makkelijk te koppelen met andere software



Success Stories





Pinesoft MBagger



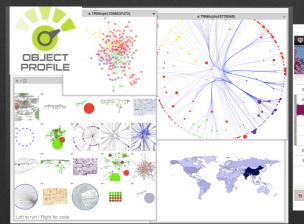
Dedicated and cost-effective

tools for software evolution

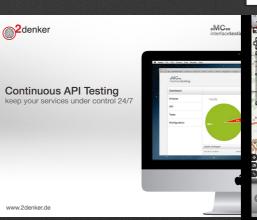














LAMRC

Back-End Wafer-Level Packaging



Your mobile hardware as a high-chance to have been produced by a robot controlled via a smalltalk



LAMRC

Back-End Wafer-Level Packaging

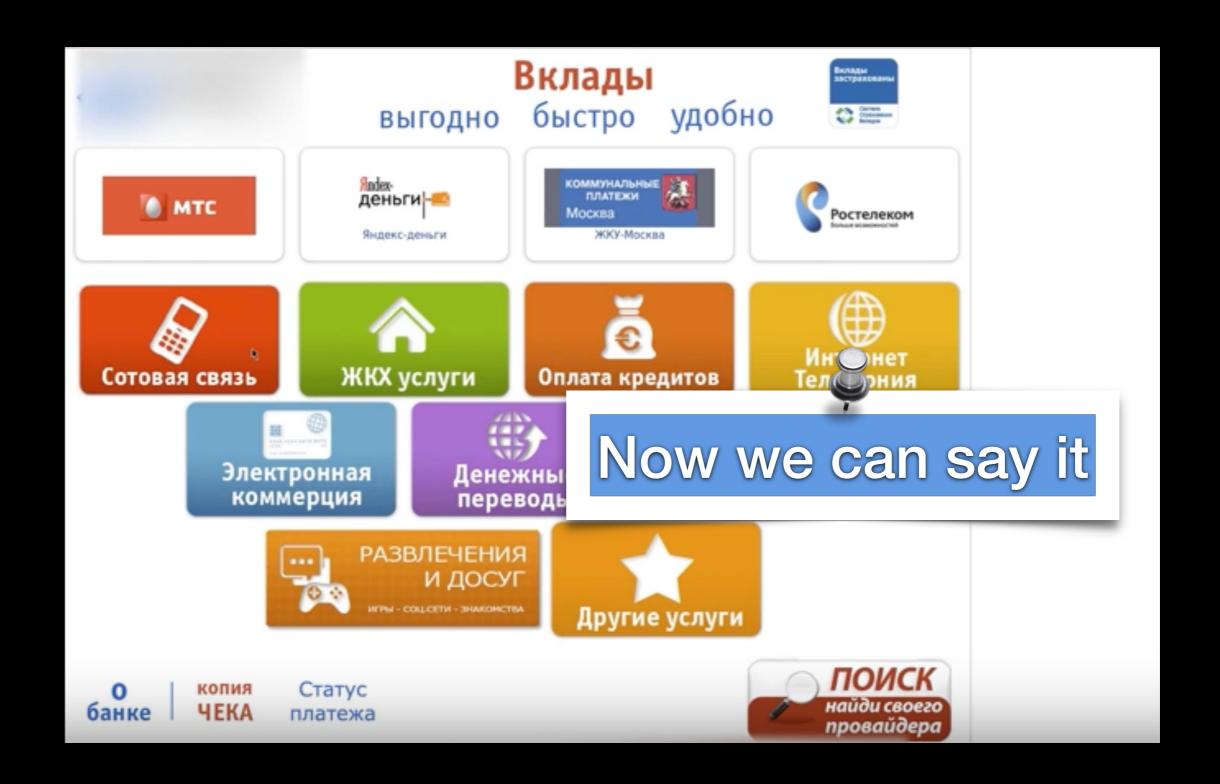
Your mobile hardware as

a high-chance to have been produced by a robot controlled via a smalltalk

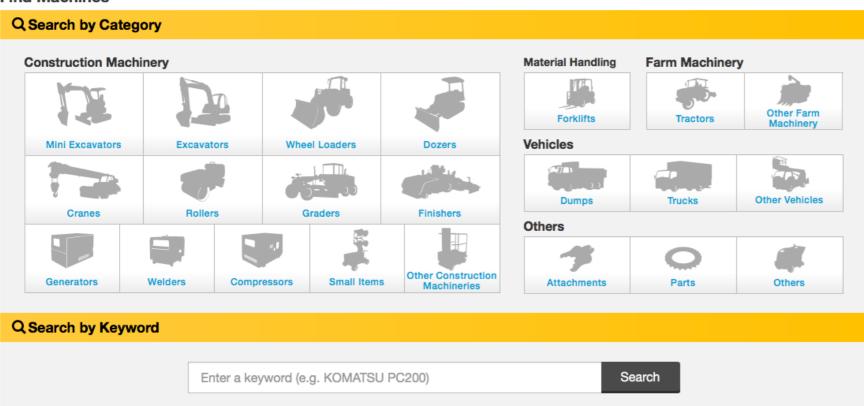


Starting to experiment with Pharo

Pharo in ATM like Device in Moscow



Find Machines



New Machines Updated on: 2016/09/13 17:46:18 (JST)



KUBOTA U-55-6

3,500,000 JPY



MGR2500

133,100 JPY



198,000 JPY



143,000 JPY

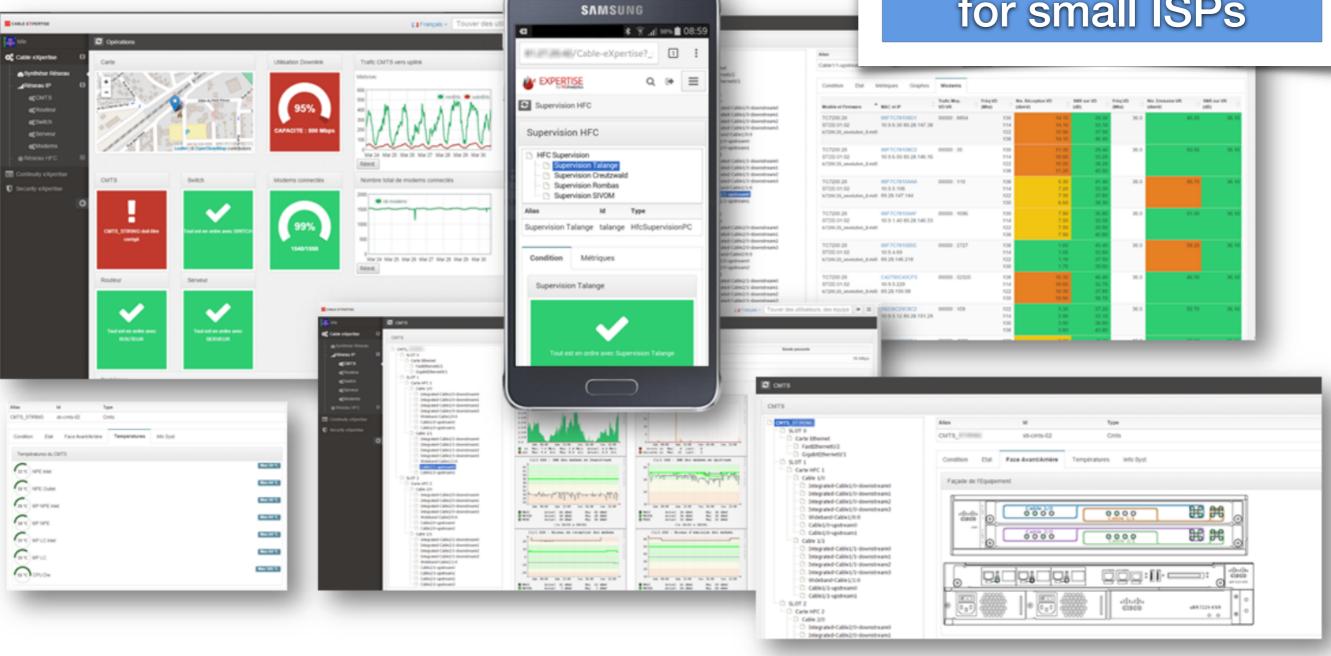


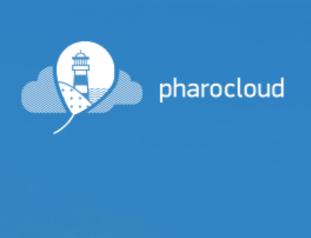
165,000 JPY

See More >



Network Monitoring for small ISPs





Overview

Pricing

Help&Docs

Log In

Sign Up

Pharo platform as a Service: put your Smalltalk web-application online at Pharocloud in just a couple clicks

Try it for FREE

■ Watch how it works



Deploy Pharo on the cloud in 3 min





Drag & Drop — ◆ → Handlich: Boxen und Elemente frei auf der Seite positionieren.

mail@cmsbox.com

Copy / Paste

Elemente ausschneiden oder kopieren und irgendwo auf der Webseite wieder einfügen.

Text einfügen



Eigene Bilder und Videos direkt auf die Webseite Is

Statistik

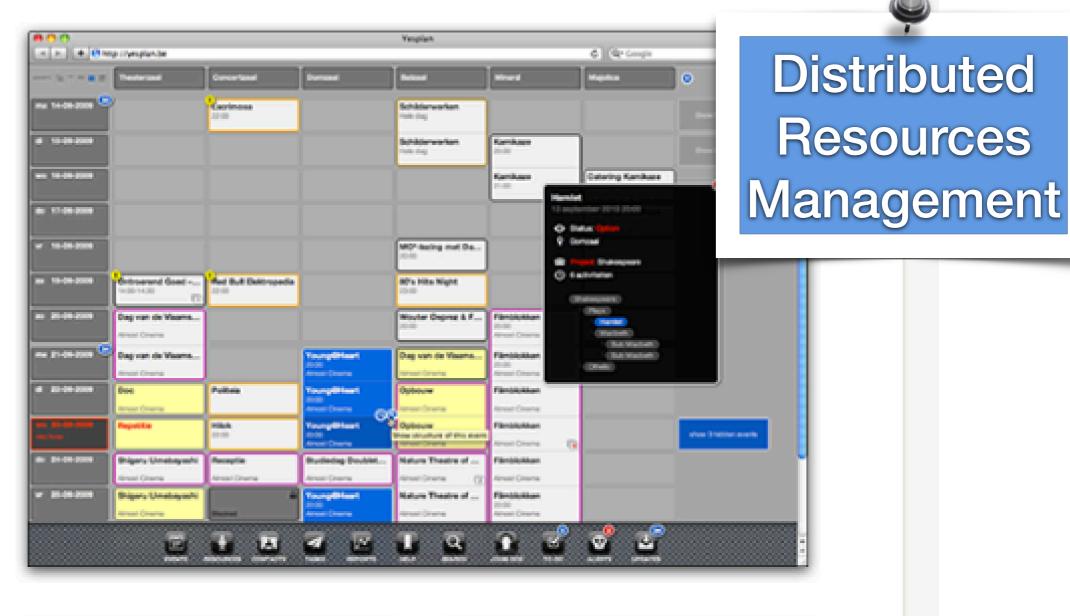
Archiv

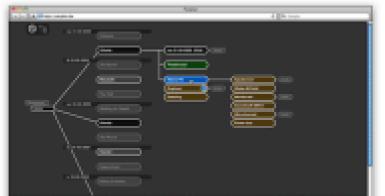
BENUTZER

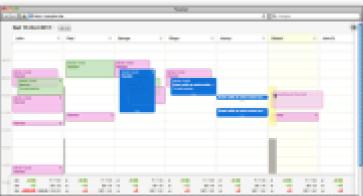
SUPPORT

Yesplan is veelzijdige software voor het efficiënt plannen van evenementen.

Yesplan is uiterst gebruiksvriendelijk, flexibel en makkelijk te koppelen met andere software.







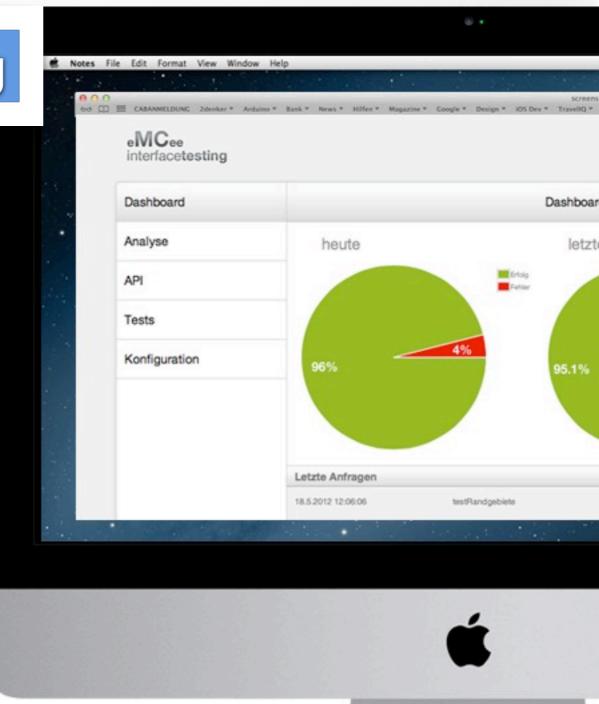


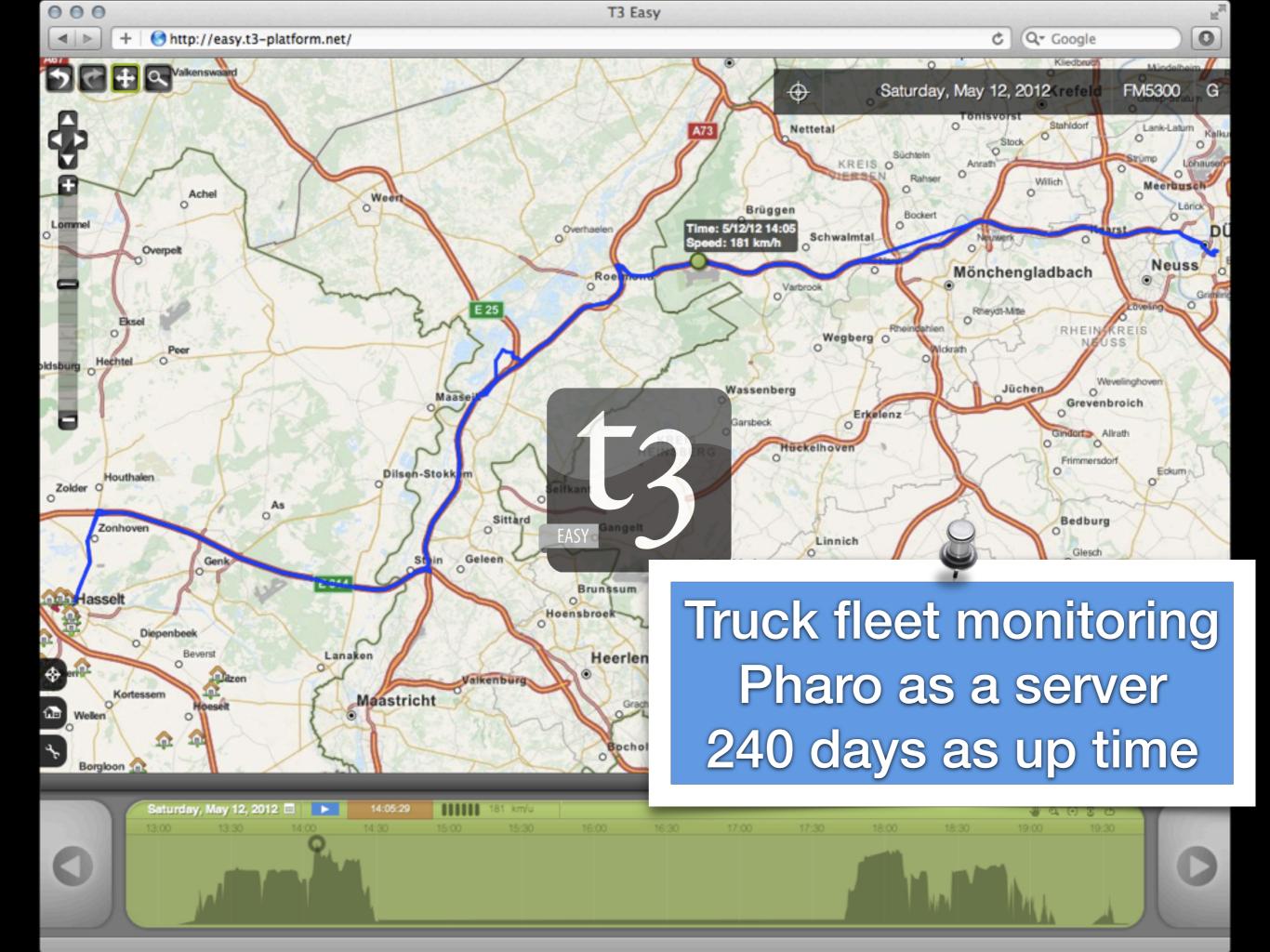




Continuous API Testing

keep your services under control 24/7

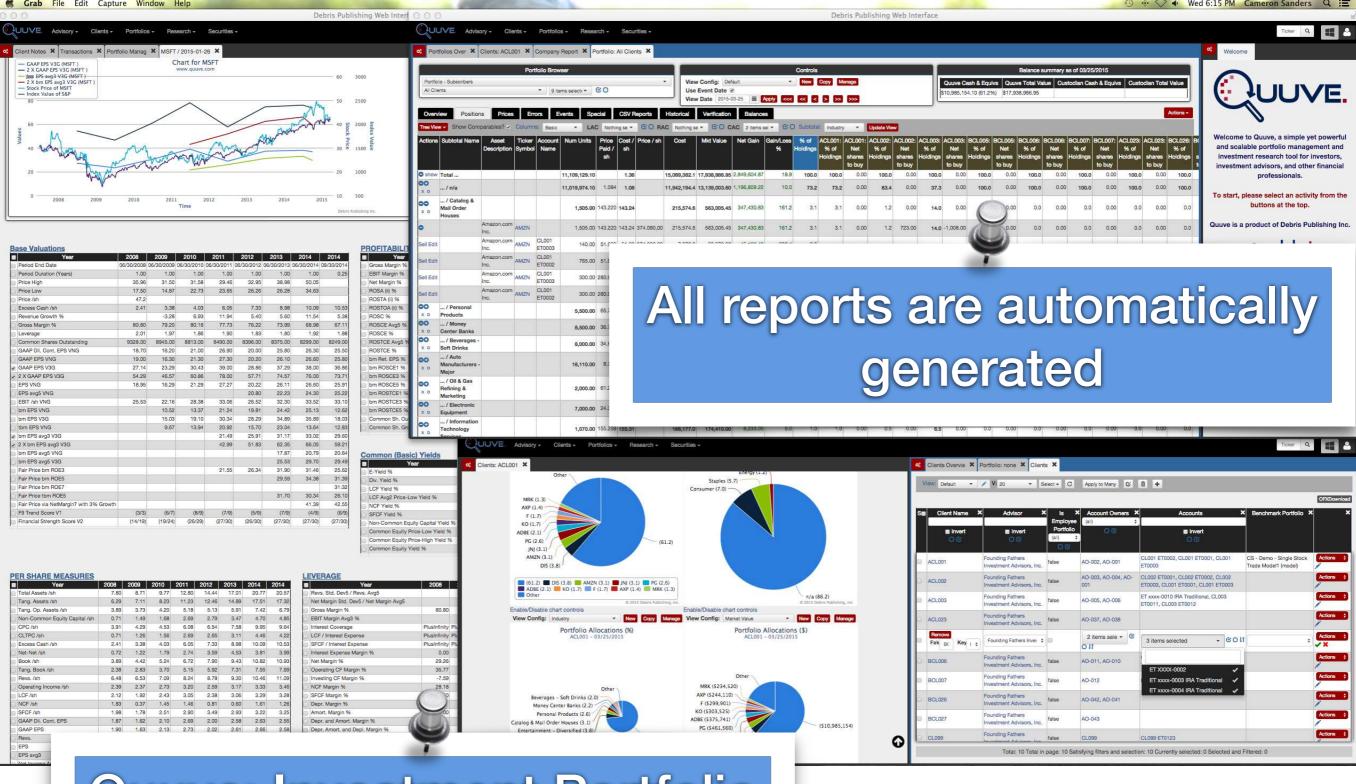




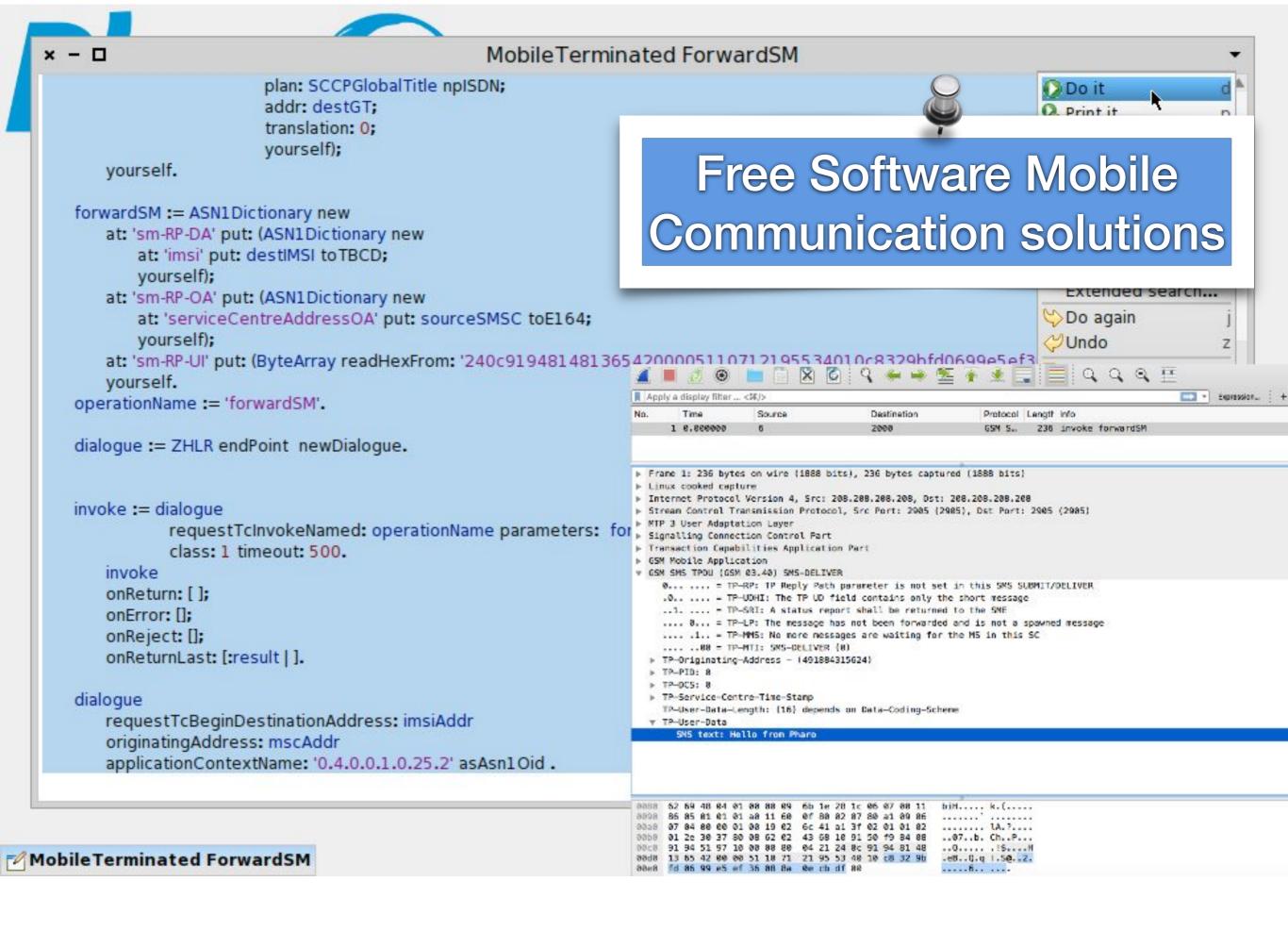
WEBDRUCK.CH Web-To-Print Solution

- Design and create individual printed matter
- eShop with credit card payment
- High quality PDF output with Printing Process integration
- Thousands of orders for seven Swiss printing companies



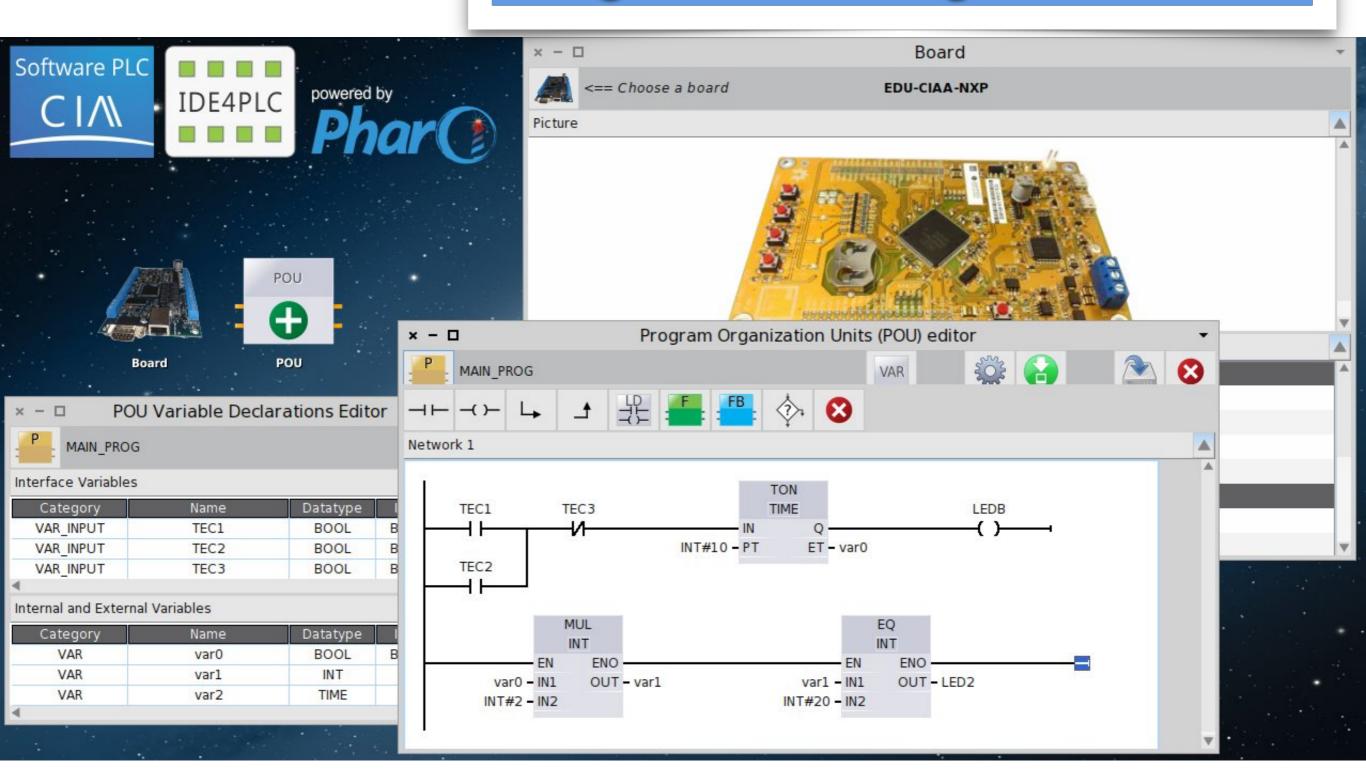


Quuve: Investment Portfolio http://debrispublishing.com





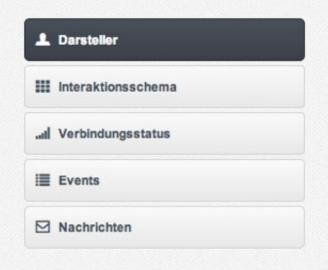
Programming environment for Programmable Logic Controllers

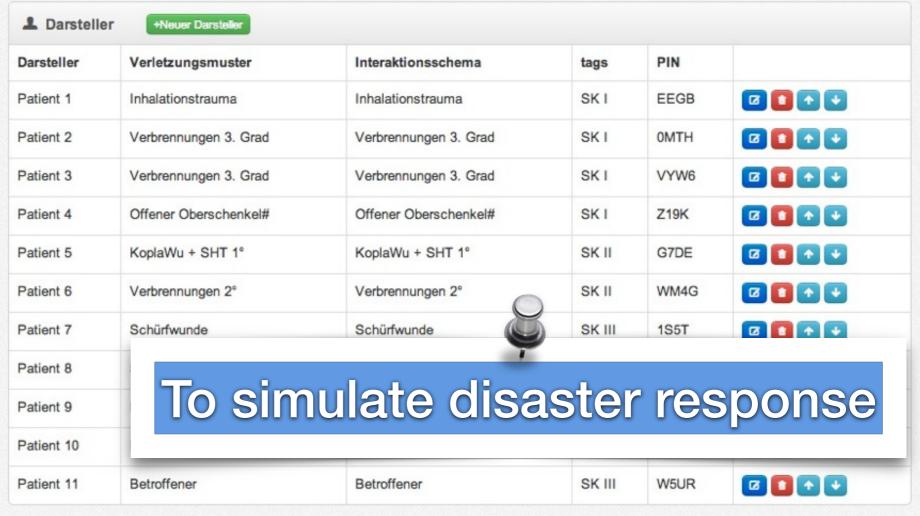




NTed: disaster scenario recovery

NTed





iBizLog - http://www.ibizlog.com



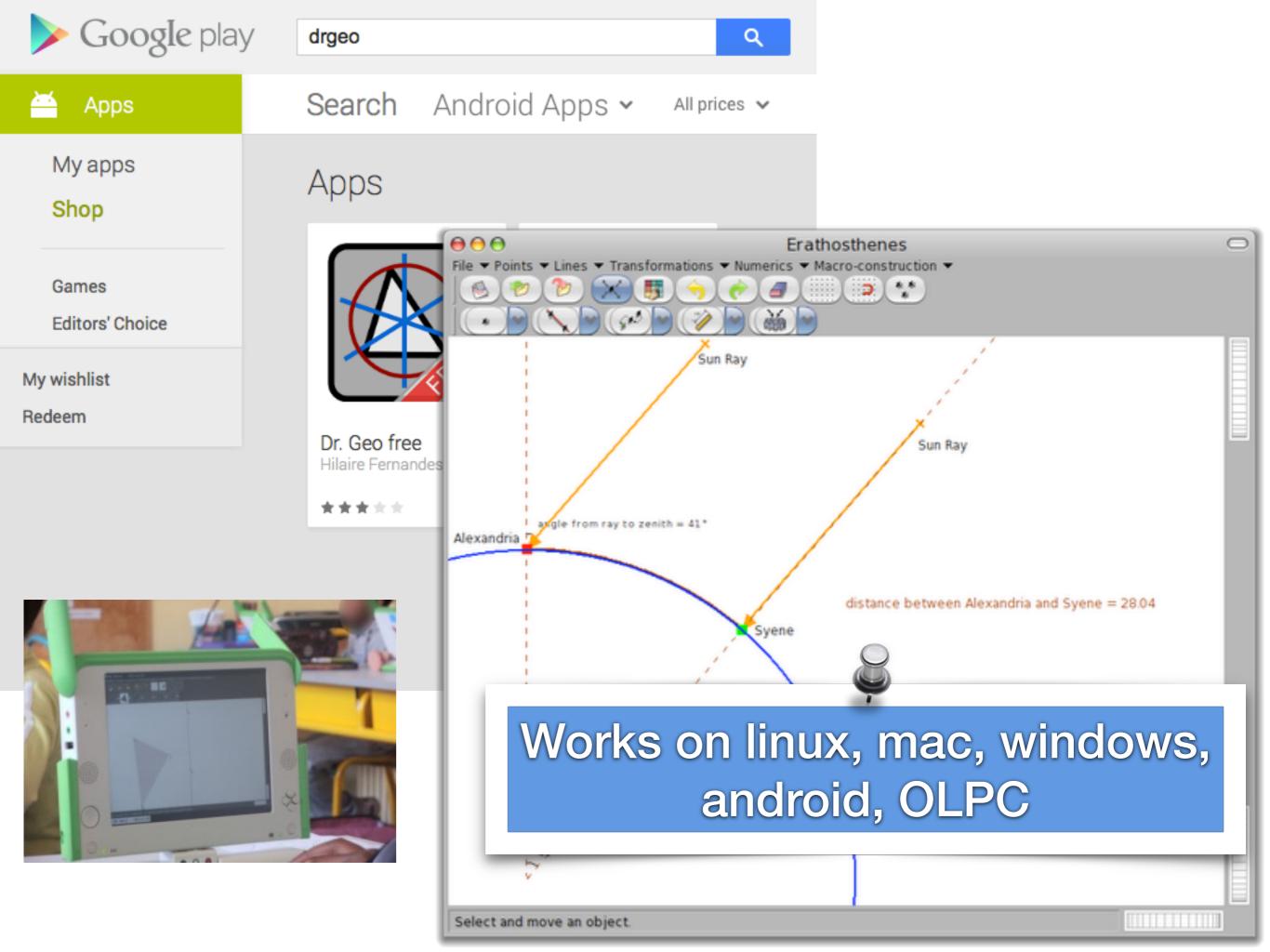
Blog | Faceboo About Us | News | Partners | Co

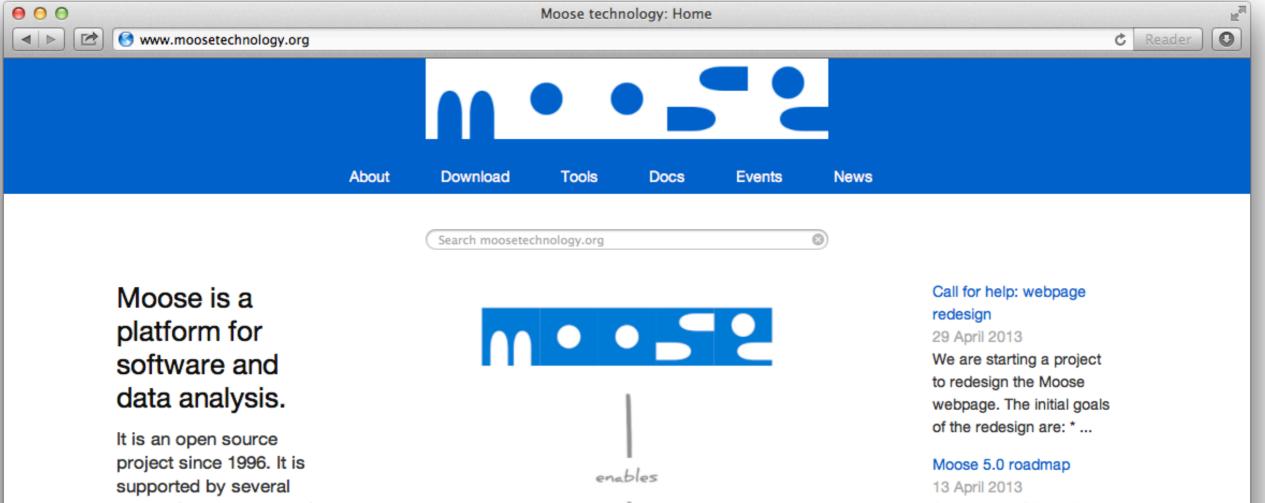
www.BizLog.com - All right

Full system developed in 5 months one dev (discontinued)

A product by smanworks

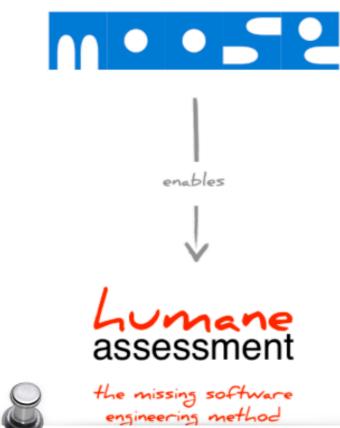






research groups around the world, and it is increasingly adopted in industrial projects.

Download 4.7





Sophisticated analysis platform more than 200 men/years

A summary of the talk laying out the Moose 5.0 roadmap can be found at: http://www.humaneassessment...

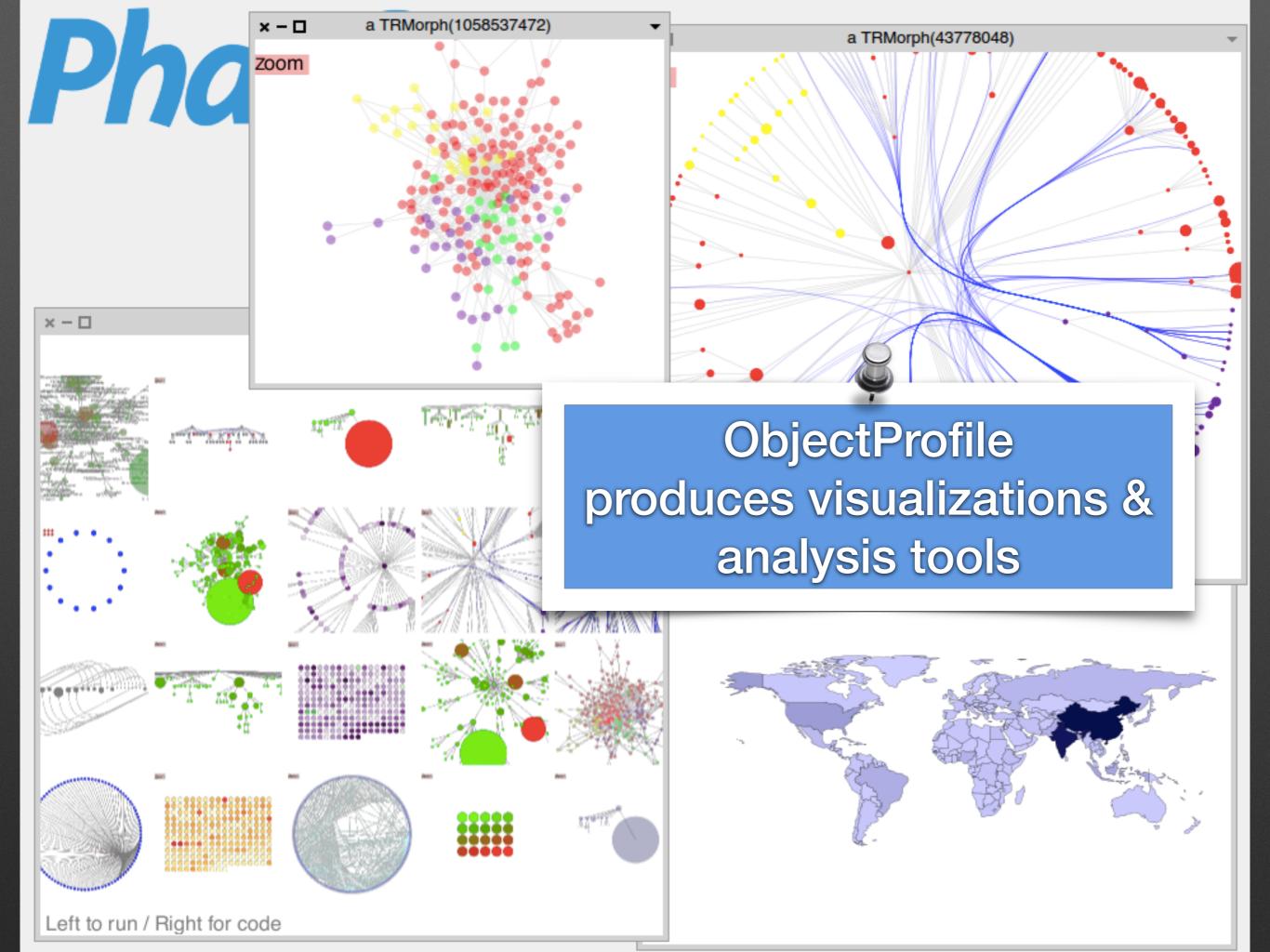
Moose 4.8 development: 4045 green tests

20 March 2013

The move from Pharo 1.4 to Pharo 2.0 is finally complete: all 4045 tests are green. The continuous

Login







HOME

FEATURES

TRAINING & SUPPORT

PRICING

The world's first online platform fully supporting risk-based test management.

- Your IT is critical to your company.
- Would you dare not to control your risks and neglect the possible impact for your company and customers?
- Start controlling your risks in a standardized and easy way !!!



BETTER

projects and products.

▶ YOUR ADDED VALUE

FASTER

NORIZZK.COM is the fastest way to compose your master and detailed test plan. It comes with a predefined knowledge base containing best practices for building your test plan, thus giving you a head start.

NORIZZK.COM allows sharing and reusing knowledge and experiences from previous projects. Over time, NORIZZK.COM becomes smarter in guiding you since it is self-learning and continuously improves its best practices.

CHEAPER

As from now, wasting time and money by reinventing the wheel is history. NORIZZK.COM gives you significant savings in creating your test

It provides an intelligent and complete approach for all test managers. NORIZZK.COM contains sustainable testing intelligence that can easily be maintained.



project.

NORIZZK.COM guides you in composing the

strategy, starting from identified product risks. It

NORIZZK.COM is the only platform for risk based

test management showing you a comprehensive

and visual overview on the risk status of your

helps you focus on the critical aspects of your

most effective and efficient end-to-end test

YOUR ADDED W

COMPONENTS

Digitalizing business



Risk Assesment

Identify, categorize, prioritize and mitigate your risks with one single



Test strategy

Write your master and detailed test plan in a faster way.



Test Estimations

Estimate all the required testing effort on one single page



Test Results

Capture all the test results to monitor the progress.



Reporting





LEARN MORE



























Developed in 3 months one dev Sold to Belgium bank Java team estimated 2 years



Organize your creative work

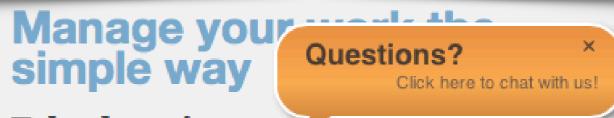
Sales, tasks and finances: your team and all that's essential in one place

Plans and Pricing

14-day free trial for all plans sign up in 60 seconds

Deployed business model did not work





Take the pain away om your organization needs.

Offline - Leave a message







Can develop a complex analysis in 3 months

Dedicated and cost-effective tools for software evolution







Synectique offers tools fine-tuned to your software analysis needs



Synectique tools provide answers that lead to concrete decisions



Funktionen

Aktuelles

Forum

Preise





Manage travel costs

Spesenfuchs

Spesenfuchs ist eine Reisekostensoftware für jedermann. Einfach, schnell und kostenlos. Alle Pauschalen und gesetzlichen Regelungen sind hinterlegt. Es ist keine Registrierung notwendig!

Reisekosten clever abrechnen >

Ohne Login benutzen

Login mit Facebook

E-Mail

Passwort

Registrieren

oain





About us

Industries

Products Services Customers Contact us

Wind Energy

Pioneering new ways of maximising sustainable wind energy yields. Our products and services optimise asset availability, wind turbine performance and drivetrain reliability. We work with owners, operators, manufacturers, insurers and service providers worldwide.

Get in touch

We provide services and software to a range of industries

ENQUIRE TODAY >

Home > Industries > Wind Energy







Related links

InSight RomaxWIND **Butterfly platform** Forensic engineering Analysis service Monitoring service

Overview

Why we are specialists

Who we work with

Wind Energy







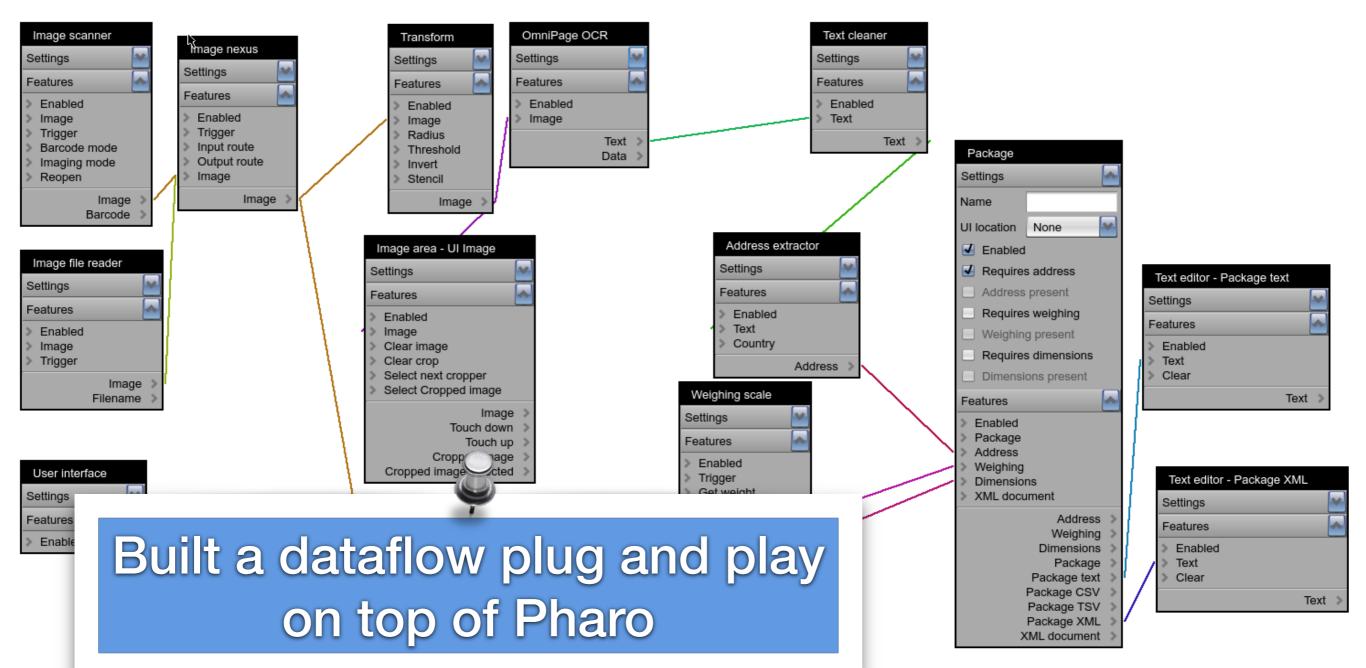


Wind industry solutions

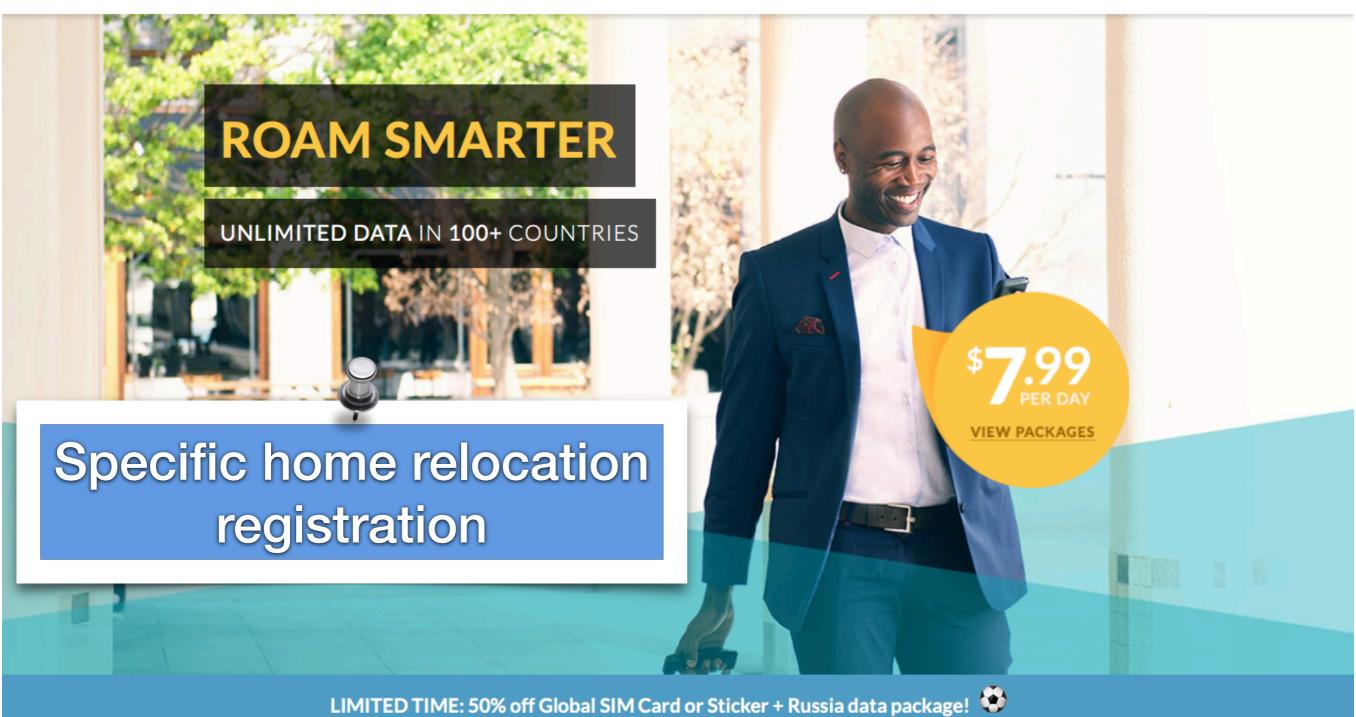
Pioneering new ways of maximising sustainable wind energy yields











Our Roaming Solutions

Affordable calls + data in 200+ countries
Bonus WhatsApp data usage
4G LTE coverage



Abbaco

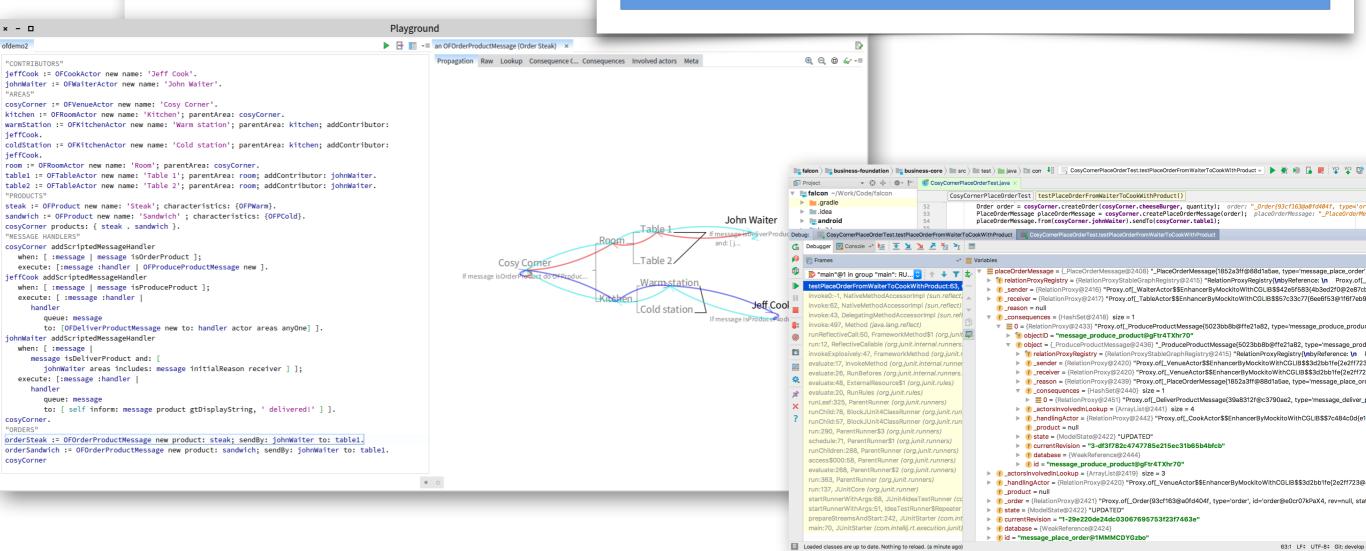
Your own research tool for making intelligent decisions.

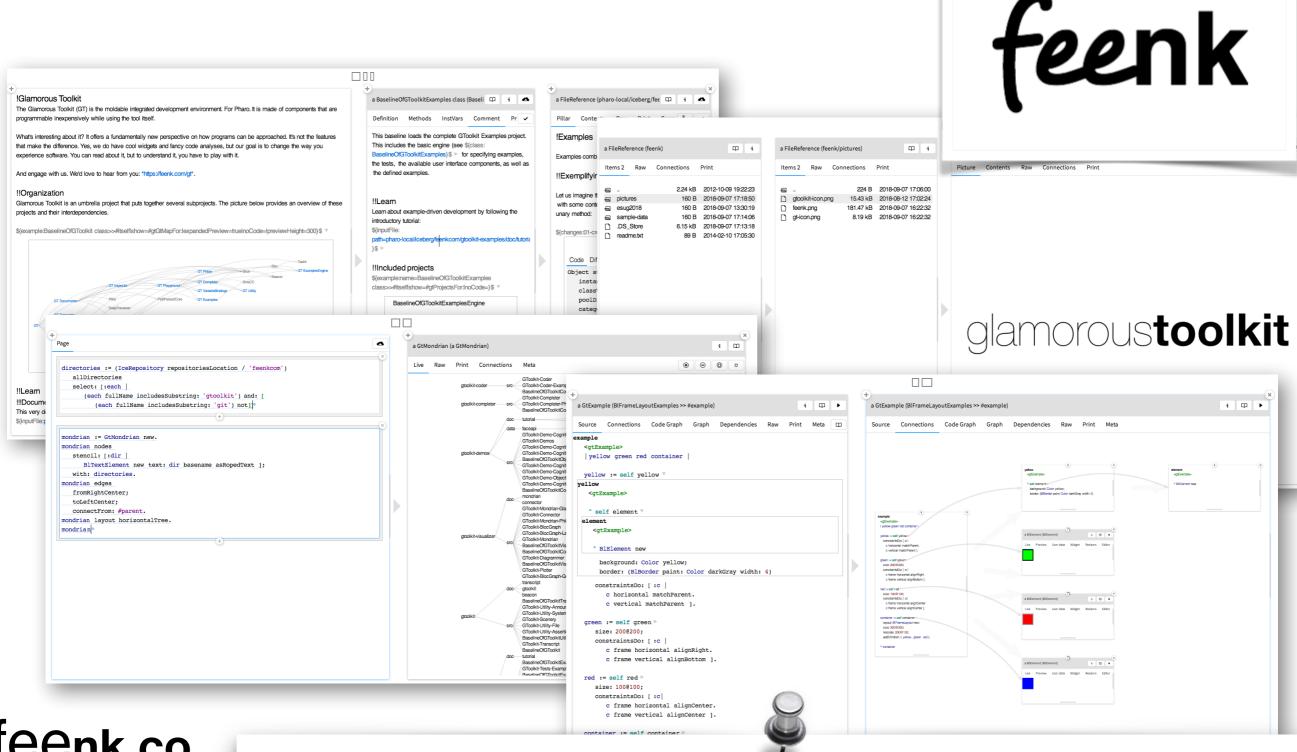






Help growing startups Get back control on software



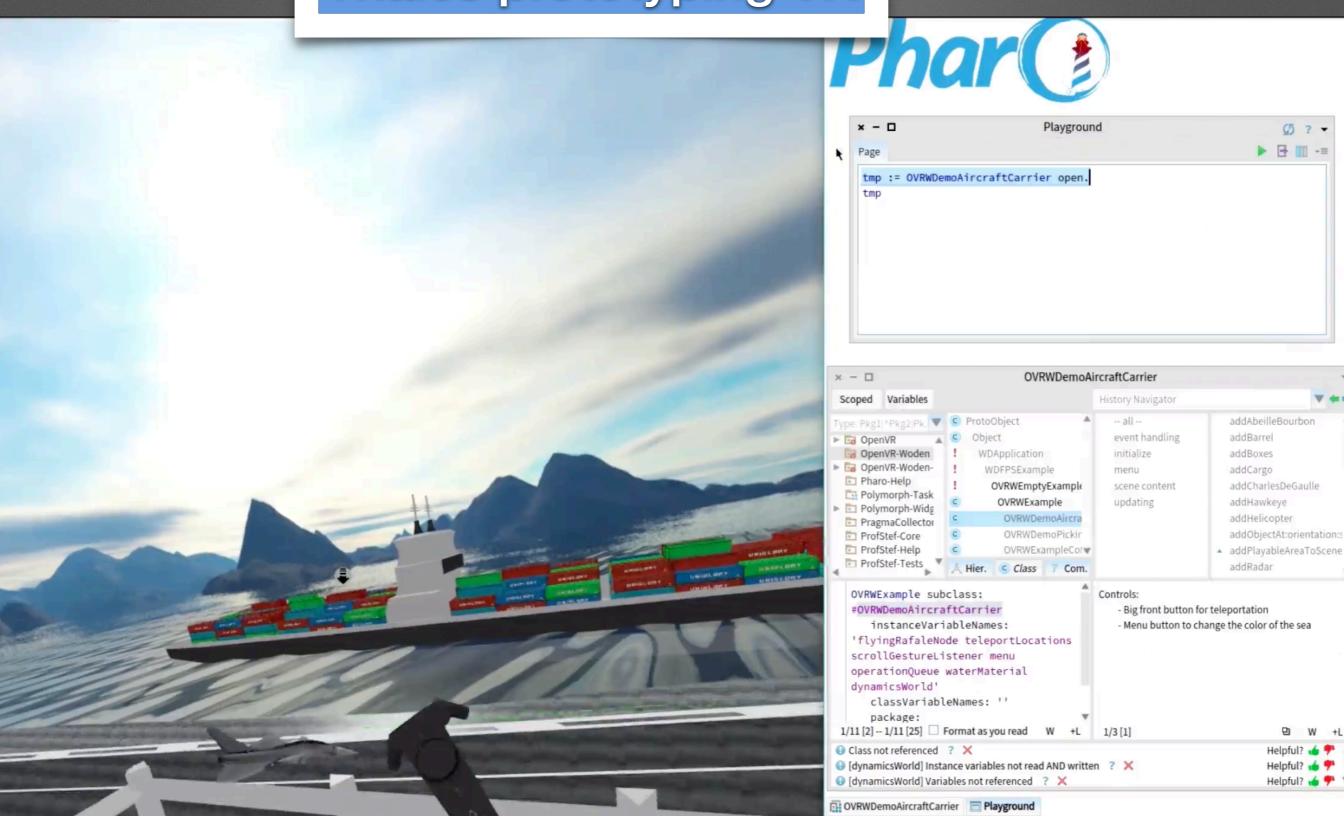


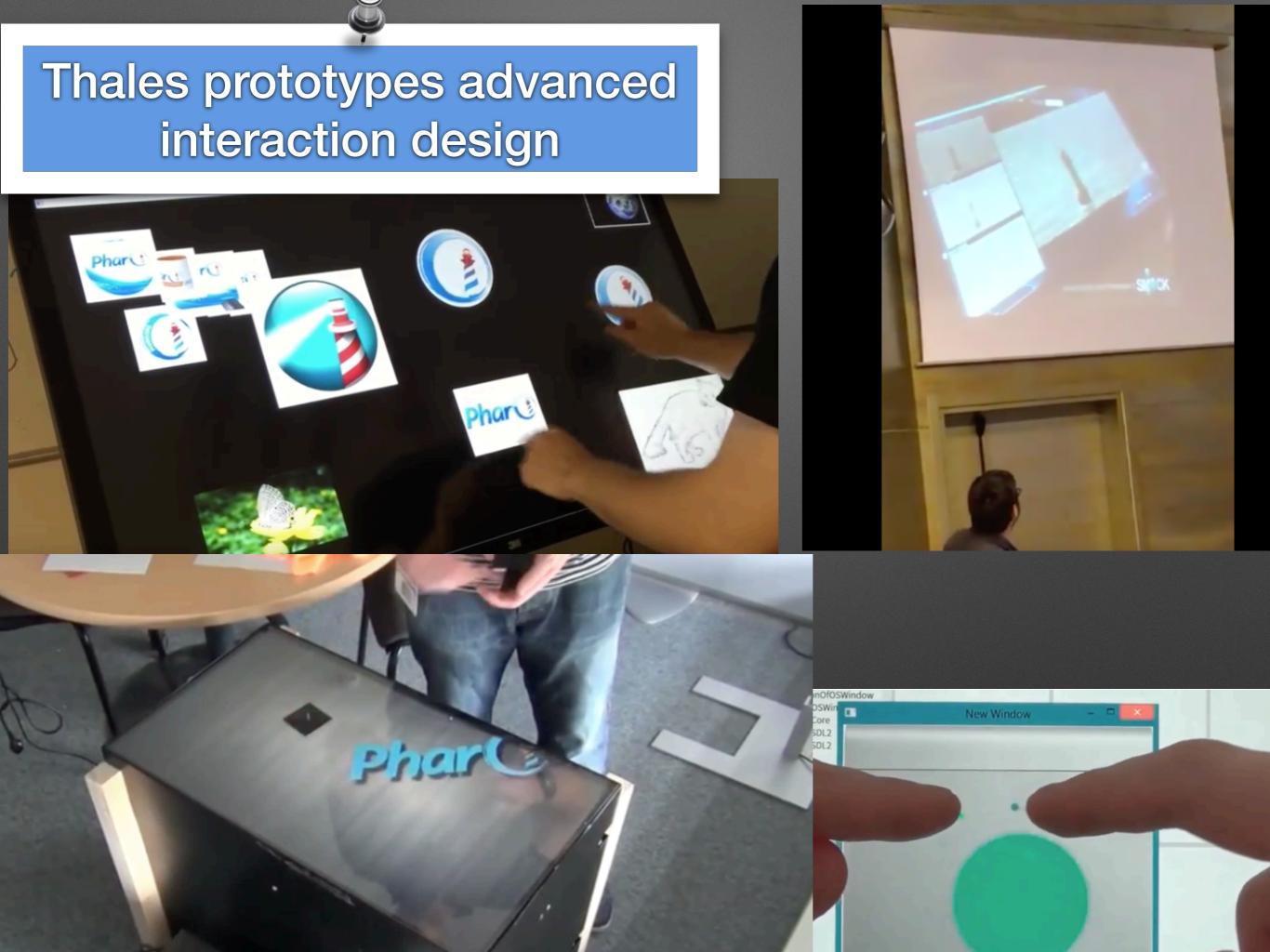
feenk.co m/gt

Build advanced tools for business experts and CEO of large companies



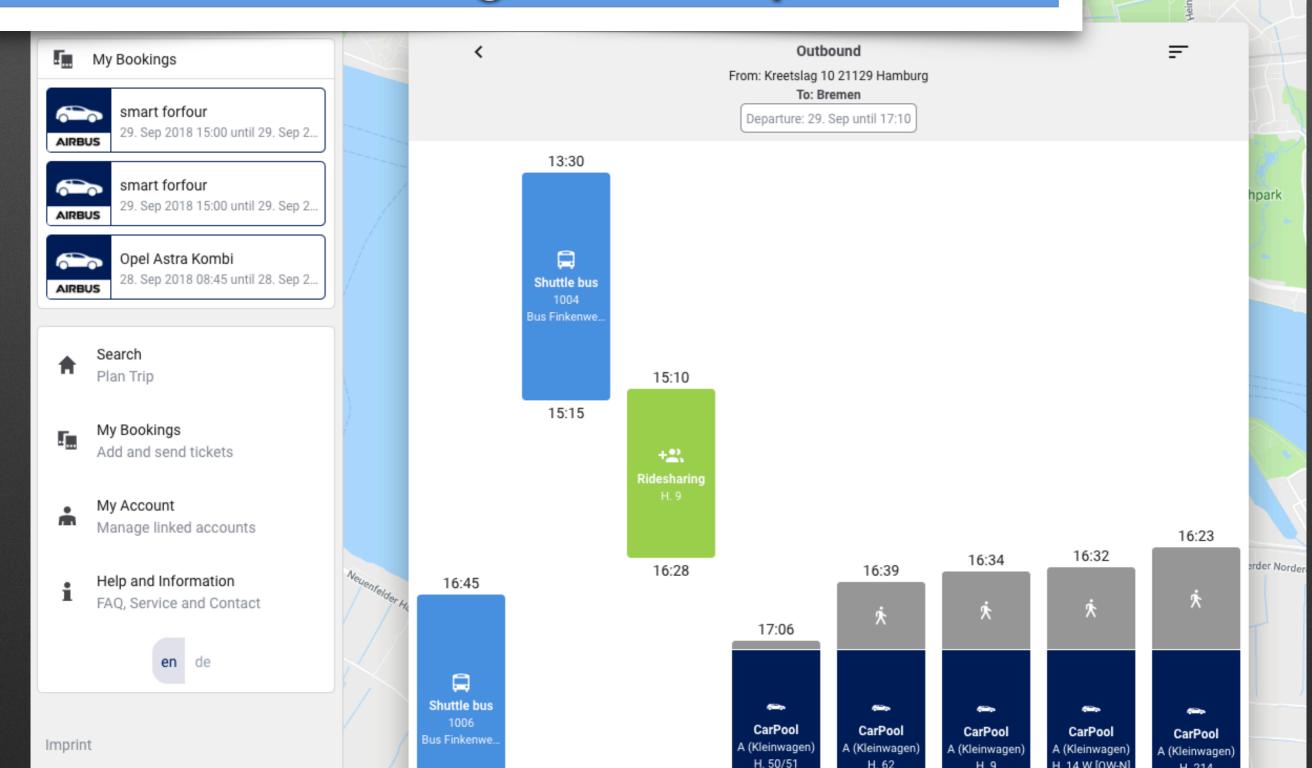
Thales prototyping VR



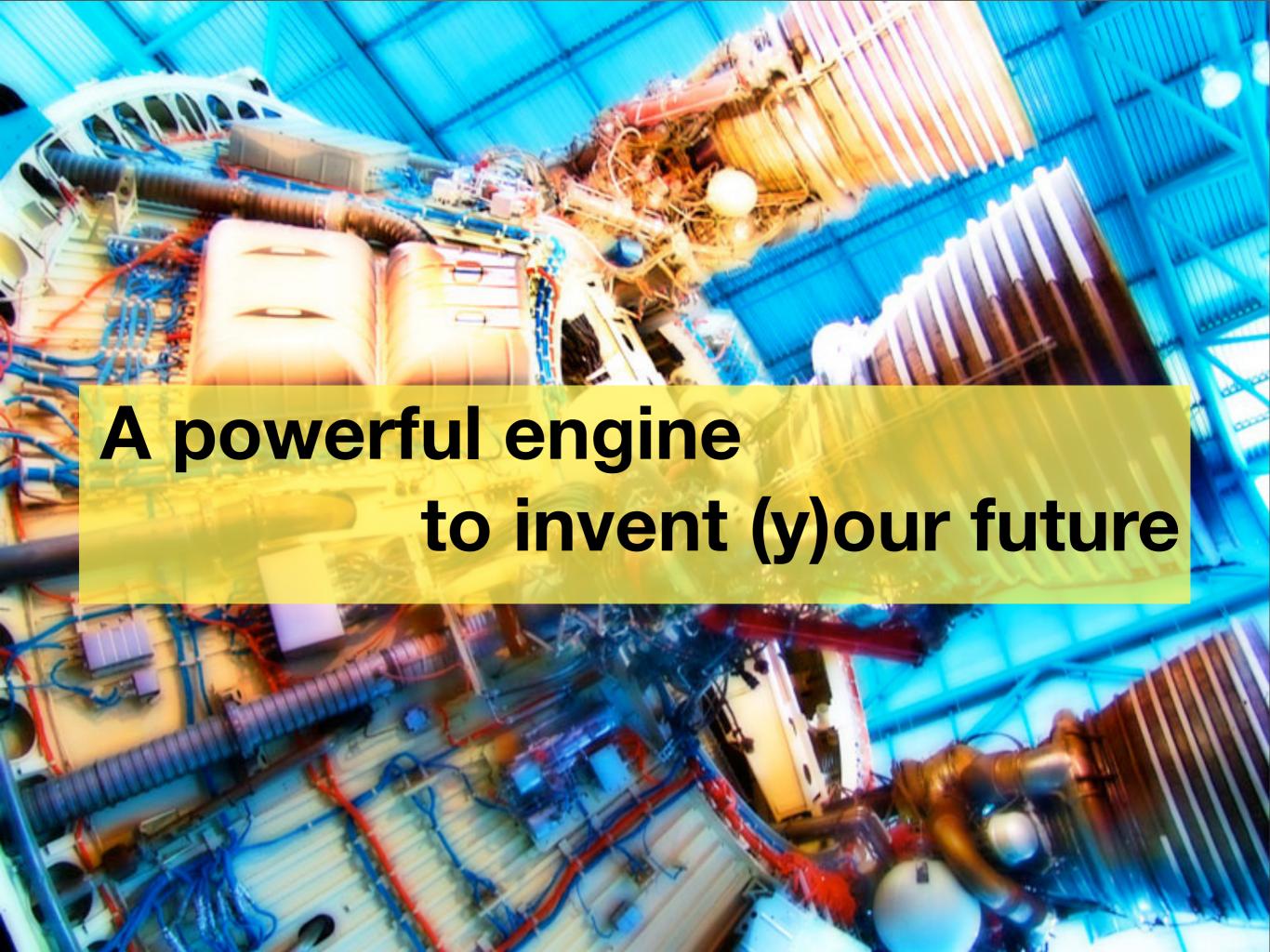




Mobility Map: a broker for mobility services multi-modal routing search docker running dozens of pharo



Remember? Our goal...





You are not alone...

Industrial consortium

http://consortium.pharo.org

No marketing No hype Adults deciding to use Understanding strengths and weaknesses



More Pharo's Teachers

 Univ. of NoviSad
 Uni. of Buenos Aires
 Uni. of Bern • Uni. of Maroua • Uni. of Brussels • Ecole des Mines de Douai • Uni. de Savoie • Ivan Franko Nat. Uni. • Czech Technical Uni. • CULS Prague Uni. of Quilmes
 Uni. of La Plata
 Northern Michigan Uni. • Uni. Technologica Nacional (UTN) • Uni. Catholic of Argentina • Uni. of Santiago • Uni. Policnica de Catalunya • Uni. de Bretagne Occidentale • Uni. of Tomsk • Uni. of Fernhagen • IT University of Copenhagen • Uni. Cat del Sacro Cuore of Brescia • Uni. of Yaounde • Uni. of Saint-Louis • INFTI • Uni. of Lyon • Univ. Montpellier • Uni. of Cordoba



A Pure 00 World

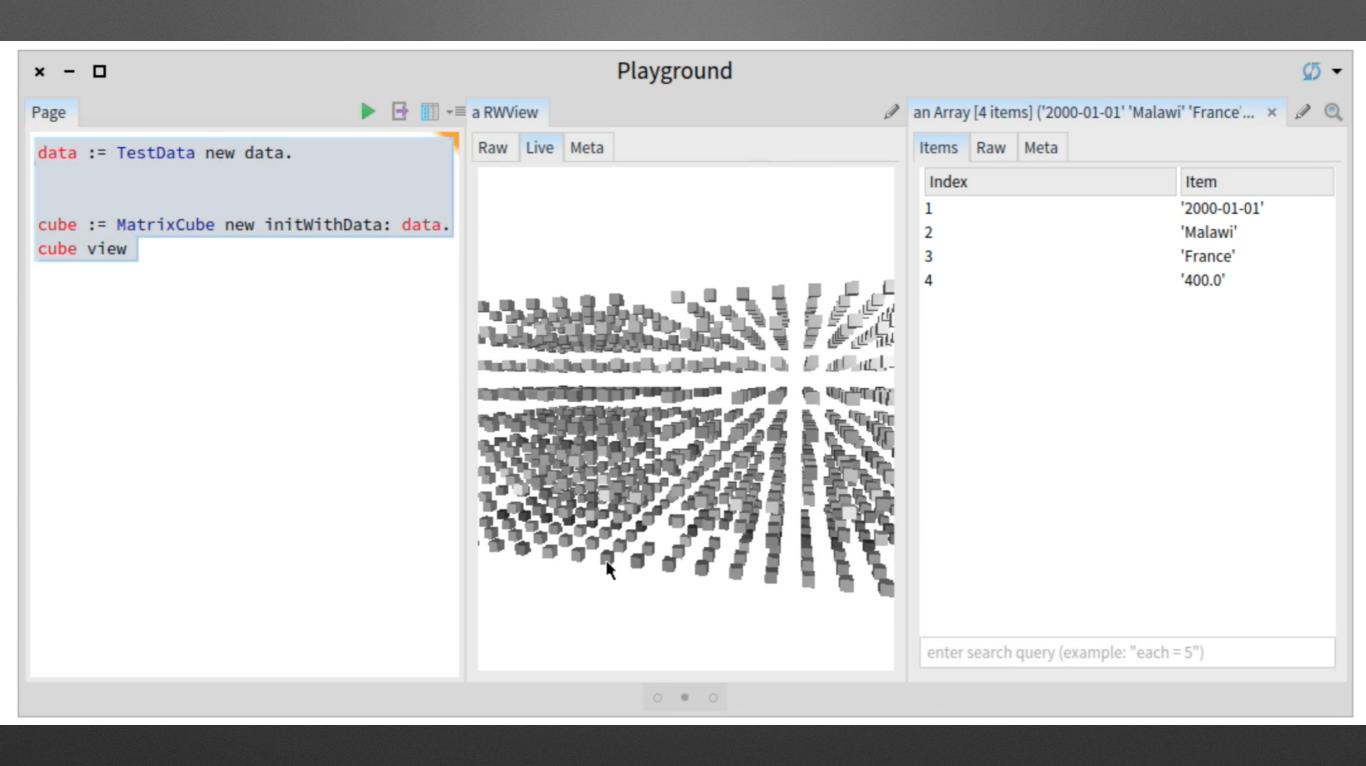
Only objects + messages + closures!

mouse, booleans, arrays, numbers, strings, windows, scrollbars, canvas, files, trees, compilers, sound, url, socket, fonts, text, collections, stack, shortcut, streams, ...

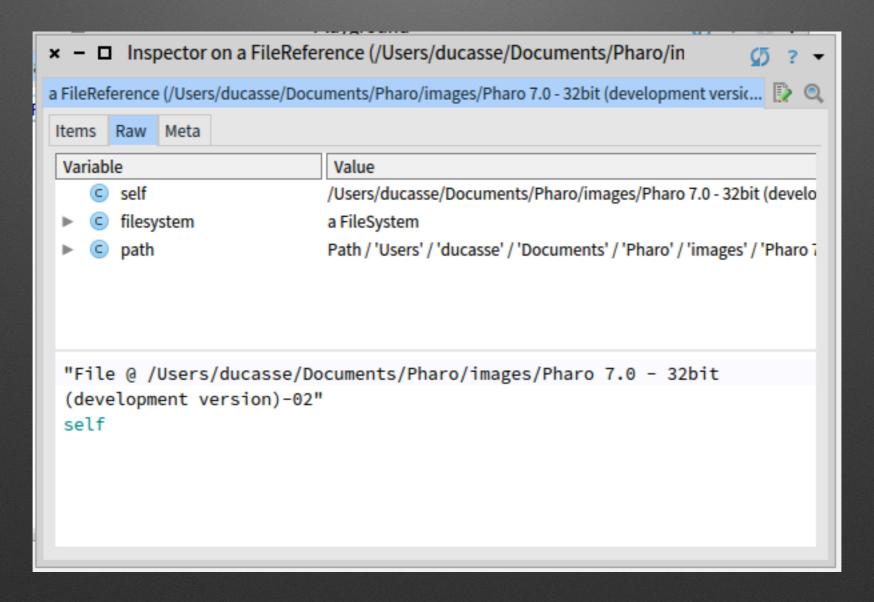
Domain Modeling = Focus on your domain

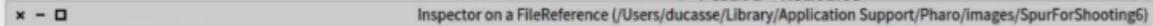
Amazing moldable tools

Customize object interaction/presentation to focus on YOUR domain



Traditionally a file reference...

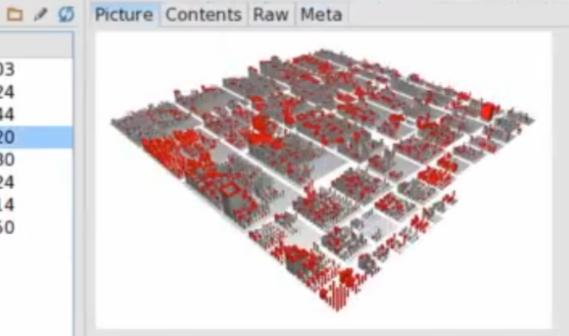


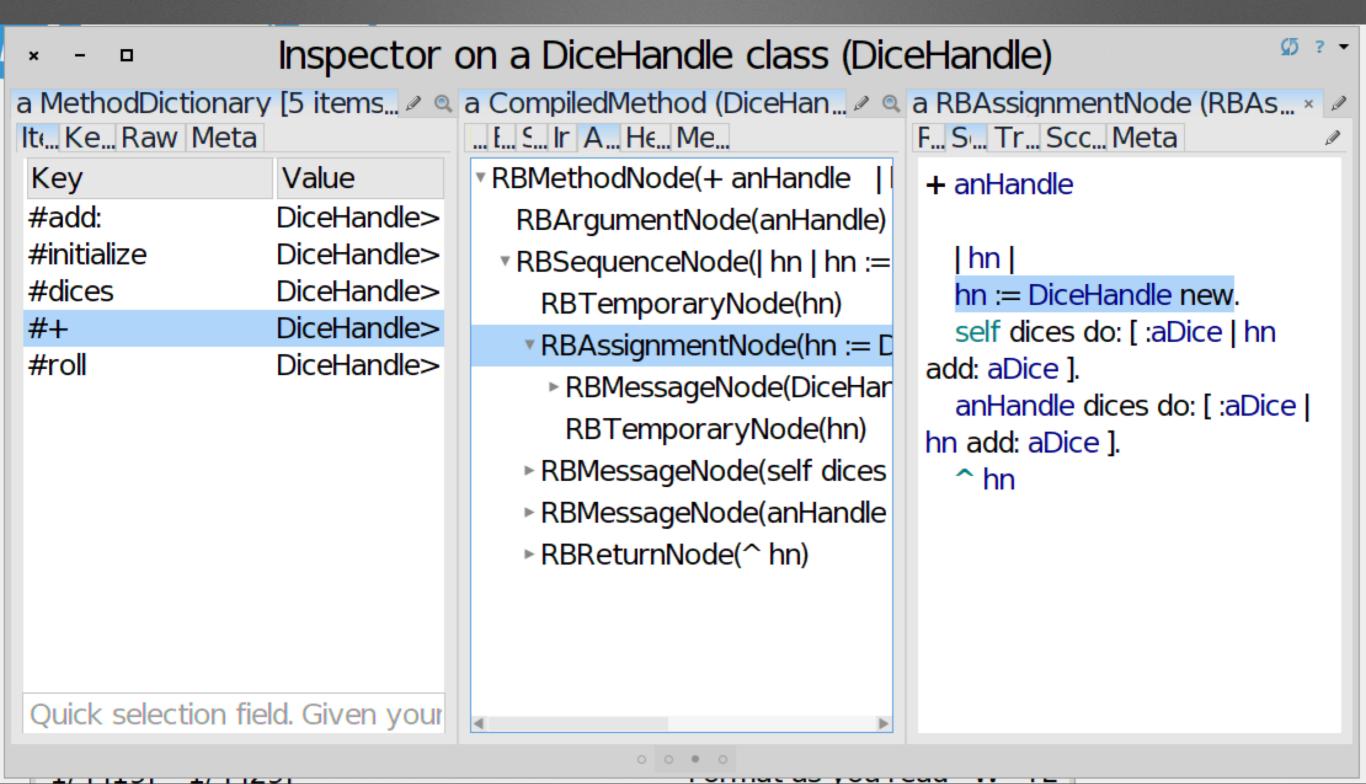


a FileReference (/Users/ducasse/Library/Application Support/Pharo/images/SpurForSh... 🖋 🔍 a FileReference (/Users/ducasse/Library/Application Support/Pharo/images/SpurForSh...

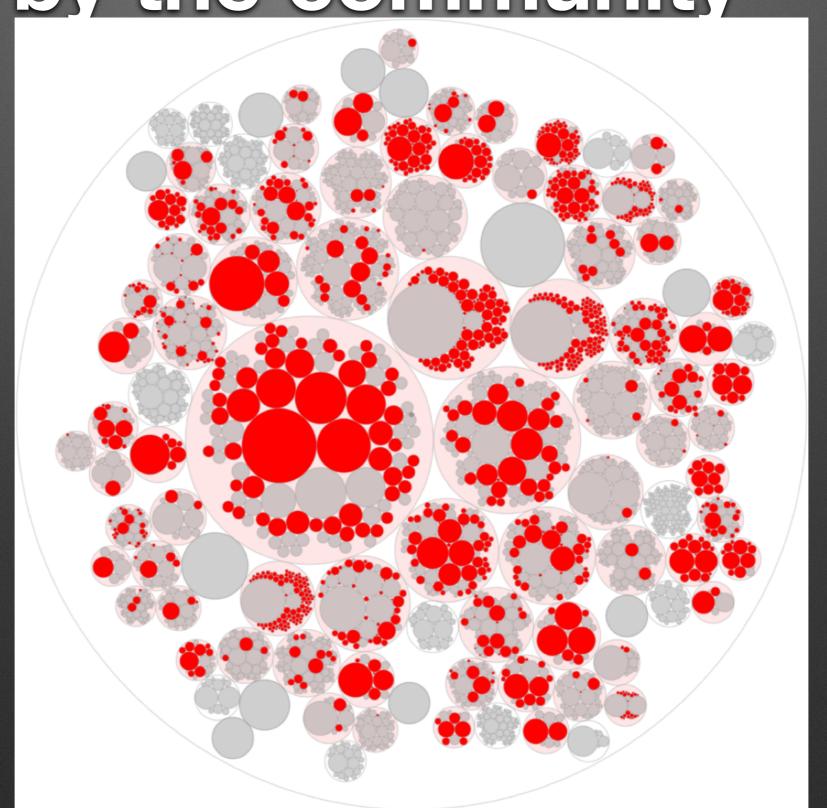
Items Raw Meta

Name	Size	Creation
D .	408 B	2016-03-04 20:23:03
□current	238 B	2016-02-25 10:34:24
₱.DS_Store	6.15 kB	2016-02-25 10:34:44
<i> p</i> haro-city.png	136.55 kB	2015-06-25 17:31:20
<i> p</i> haro.log	155.14 kB	2015-06-30 14:51:30
<i> p</i> hotos.zip	157.78 kB	2015-06-30 16:59:24
	291 B	2015-09-17 15:21:14
	1.53 kB	2015-07-15 01:48:50





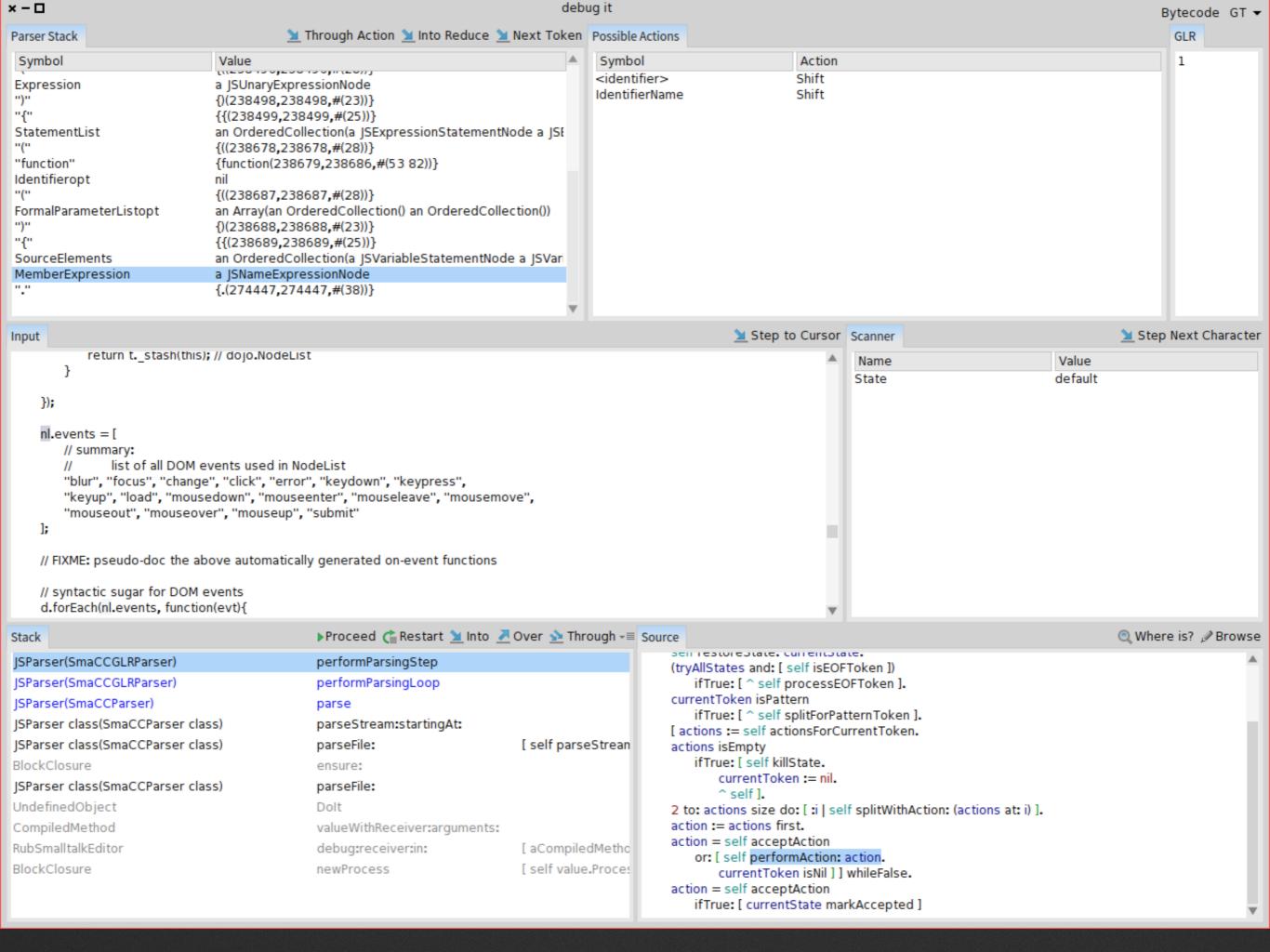
of specific views developed by the community



Hot update on the spot customizable debugger

```
Quittancedenerator class//#exampleJustinonthiAnunenter
                                                   Halt
                                                                                                           Bytecode
                                                                       ▶Proceed   Restart  Into  Over  Through  <=</p>
Stack
PDFCellElement
                                             getSubElementsWith:styleSheet:
PDFCellElement(PDFComposite)
                                             generateCodeSegmentsCollectionWi
                                             generateCodeSegmentWith:styleShe
PDFCellElement(PDFComposite)
PDFDataTableElement(PDFComposite)
                                             generateCodeSegmentsCollectionWi [:aSubElement| aSubElement generateCodeSe
Array(SequenceableCollection)
                                             collect:
                                                                                                 Where is? Prowse
Source
generateCodeSegmentsCollectionWith: aPDFGenerator styleSheet: compositeStyleSheet format: aFormat
    ^ (self getSubElementsWith: aPDFGenerator styleSheet: compositeStyleSheet)
       collect: [ :aSubElement |
           aSubElement
               generateCodeSegmentWith: aPDFGenerator
               styleSheet: (aSubElement buildCompositeStyleSheetFrom: compositeStyleSheet)
               format: aFormat ]
Variables
            Variable
                                      Value
 Type
           self
                                     a PDFCellElement
           aFormat
                                     a PDFA4Format
           aPDFGenerator
                                     a PDFGenerator
           compositeStyleSheet
                                     a StyleSheet
```

dimension: 80 mm @ 20 mm;



Since may 2008

```
Pharo 7.0 - Nov 2018 ... 63 contributors - 111 Forks.
```

Pharo 6.0 - Apr 2017 100 commiters (1700 issues closed)

Pharo 5.0 - Apr 2016 90 commiters (1600 issues closed)

Pharo 4.0 - Apr 2015 70 committers (1271 issues closed...)

Pharo 3.0 - Apr 2013 (2364 issues closed)

Pharo 2.0 - Apr 2013 (1727 issues closed)

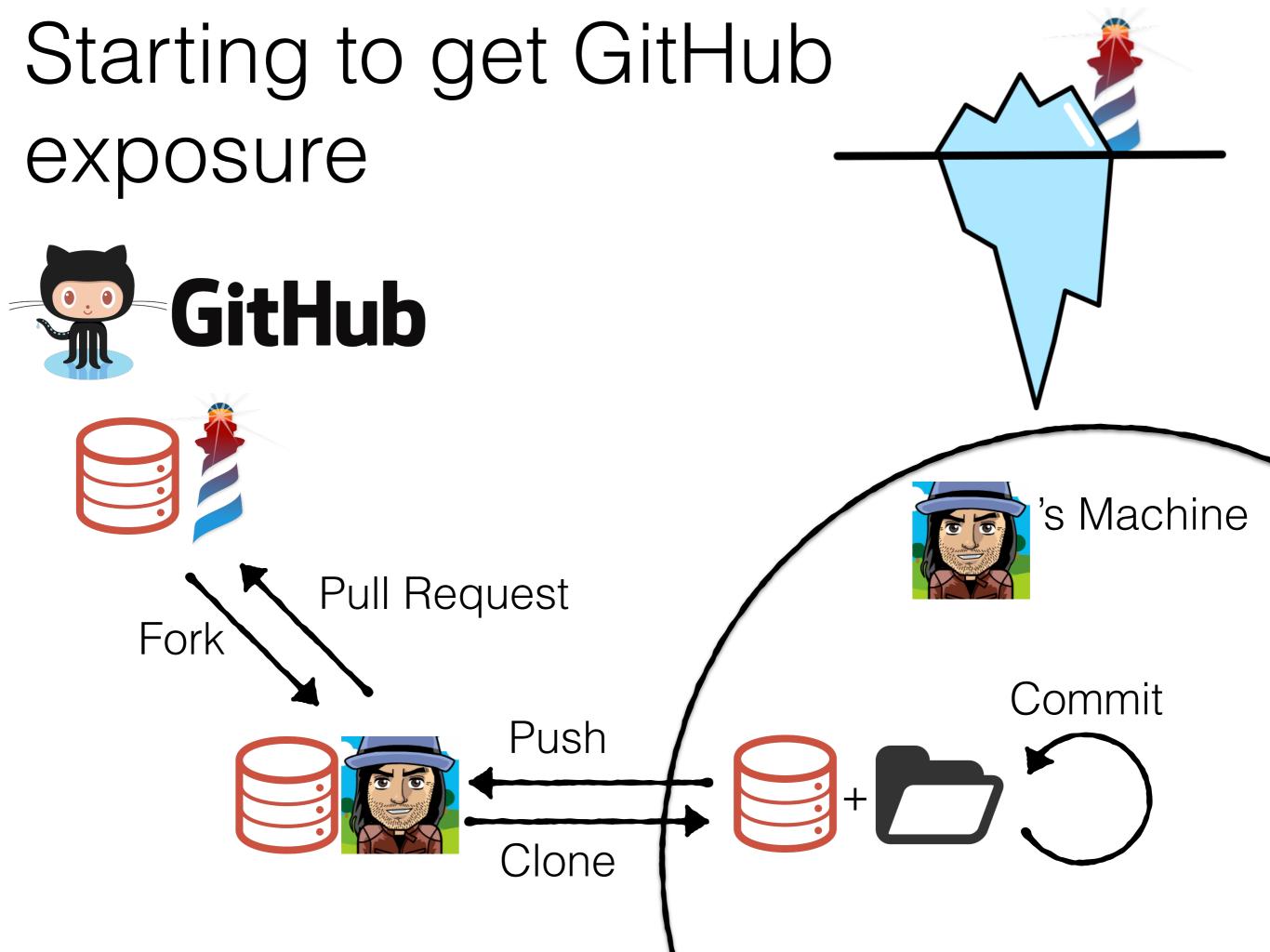
Pharo 1.4 - Apr 2012 (860 updates)

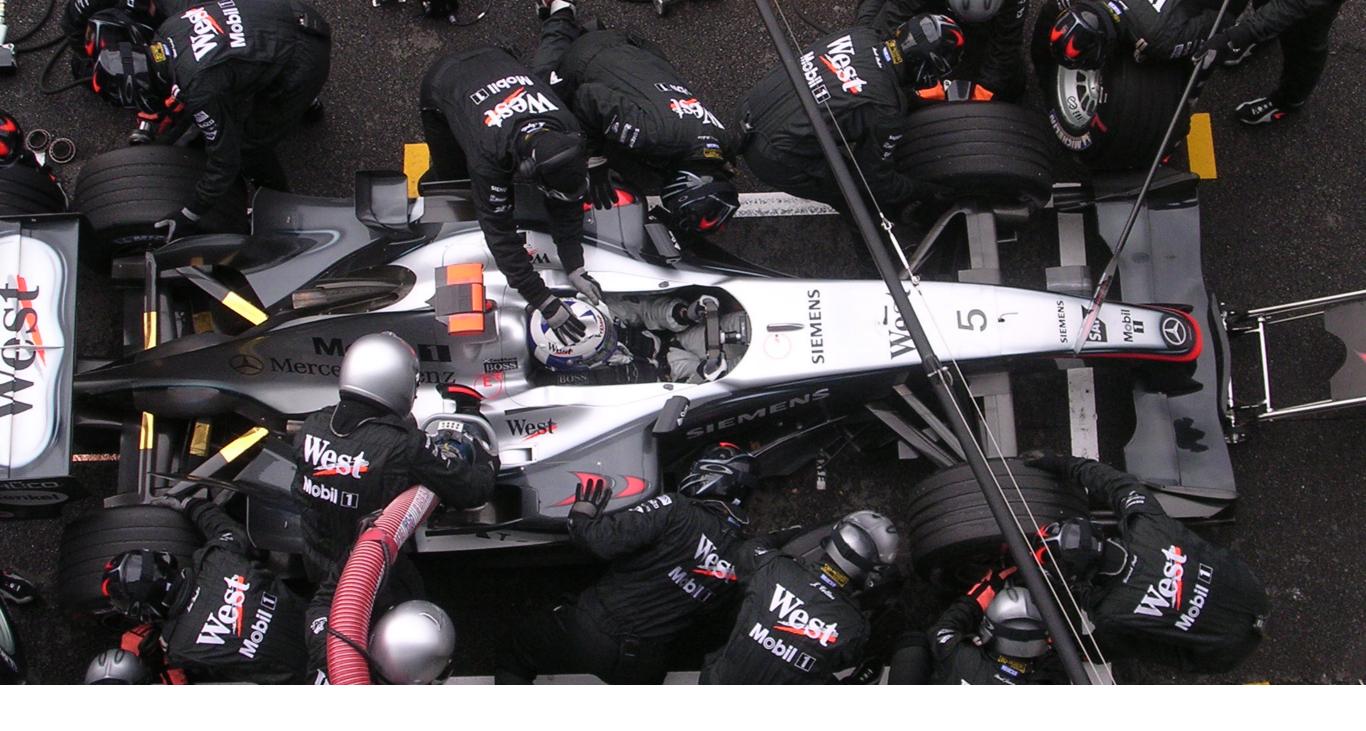
Pharo 1.3 (700 updates)

Pharo 1.2 - mar 2011 (500 updates)

Pharo 1.1 - jul 2010 (410 updates)

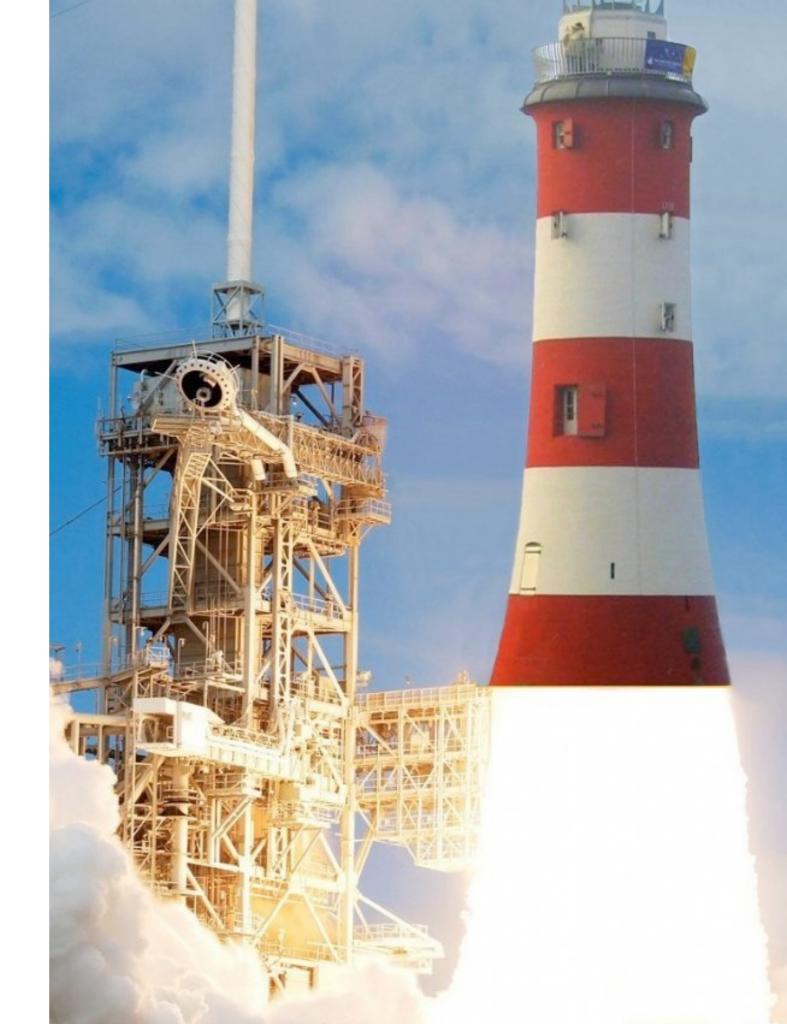






Pharo is our vehicle We improve it everyday

Of course not everything is perfect:)
But it feels like



Pharo

is JOUIS

- A powerful, innovative and flexible framework
- Dedicated to build complex Web applications
- Live coding and debugging
- Support reusable Web components
- Secure by default
- Web 2.0 support (Ajax, Reef, ...)
- REST integration

Concentrate on your application...

... no manual request parsing

... no XML configuration files

Natural Flow

We don't think in pages ...

..., but in stateful components



Valid

Secure by default no injection

WACounter 🖾 🔍 💕 [R|S]

Development tools

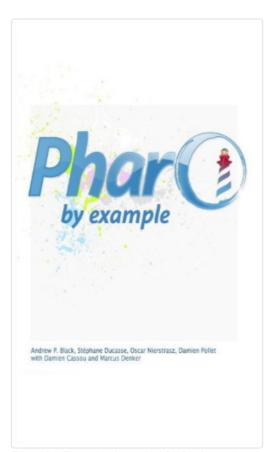
http://books

Pharo Books

Pharo is a clean, innovative, open-source, live-programming environment.

Contribute to the SquareBracketsAssociates community free books https://github.com/SquareBracketAssociates/

Access the book compilation farm!



Pharo by Example, intended for both students and developers, will guide you gently through the Pharo language and environment by means of a series of examples and exercises.

View details »





Deep into Pharo is the second volume of a series of books covering Pharo. Whereas the first volume is intended for newcomers, this second volume covers deeper topics.

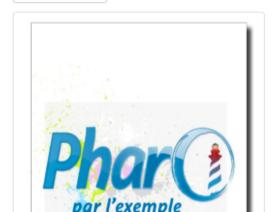
View details »

TinyBlog: Un Tutorial Web en Pharo

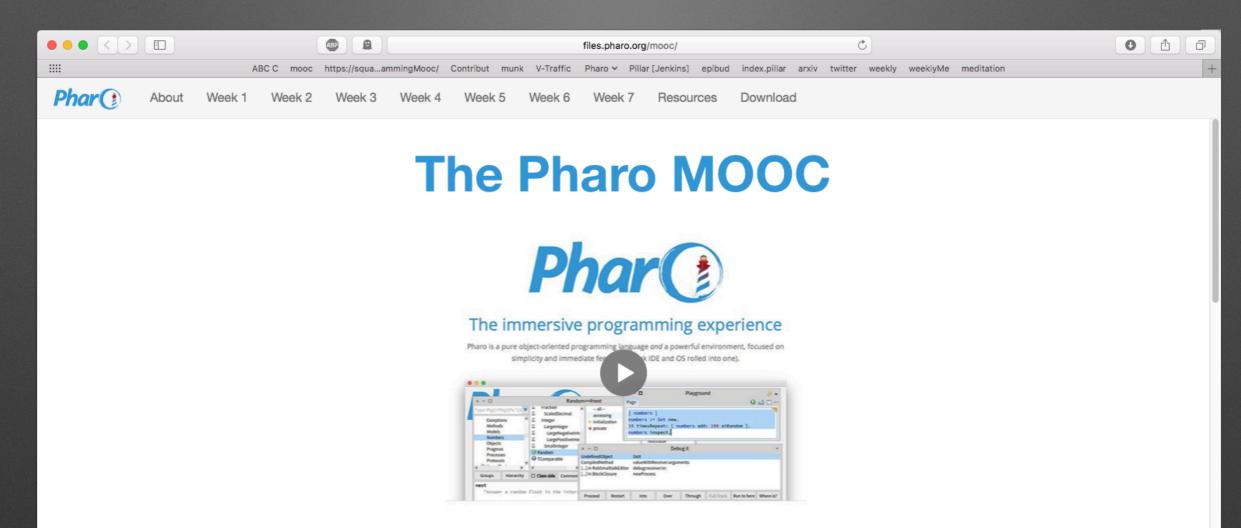


Enterprise Pharo is the third volume of the series. This book covers libraries and frameworks for enterprises, and in particular those doing web development.

View details »



http://mooc.pharo.org



About this course

If you are either a beginner or an expert in object-oriented programming, this MOOC will change the way you program with objects: come and learn or rediscover object-oriented programming with Pharo!

Pharo is a pure object-oriented programming language in the tradition of Smalltalk. It offers a unique developing experience in constant interaction with live objects. Pharo is elegant, fun to use and very powerful. It is very easy to learn and enables to understand advanced concept in a natural way. When programming in Pharo, you are immersed in a world of live objects. You have immediate feedback at any moment of your development on objects representing web applications, code itself, graphics, network. More...

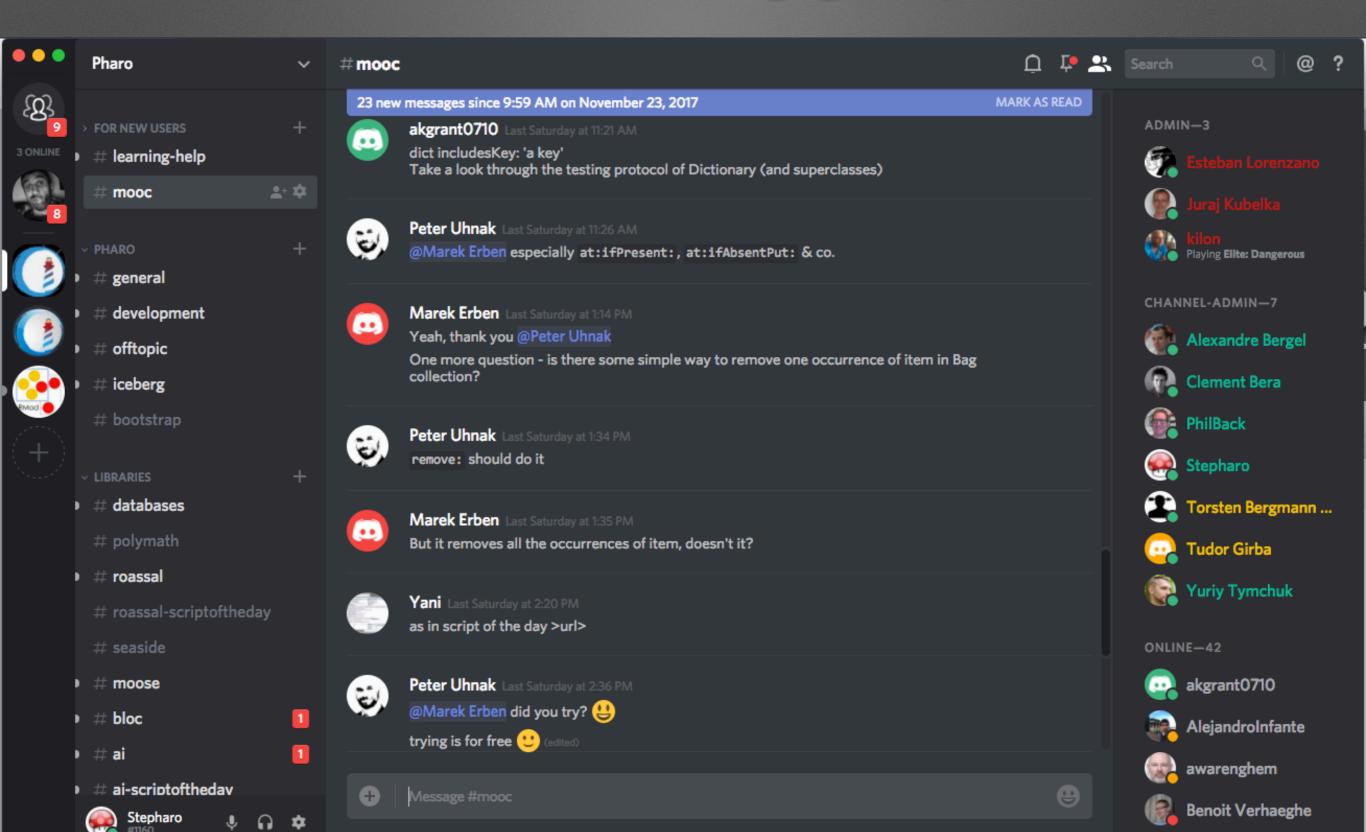
Obtaining the MOOC

We strongly suggest to follow the MOOC during the next session on France Université Numérique that will start October 16th, 2017 because you will have support from the teaching team.

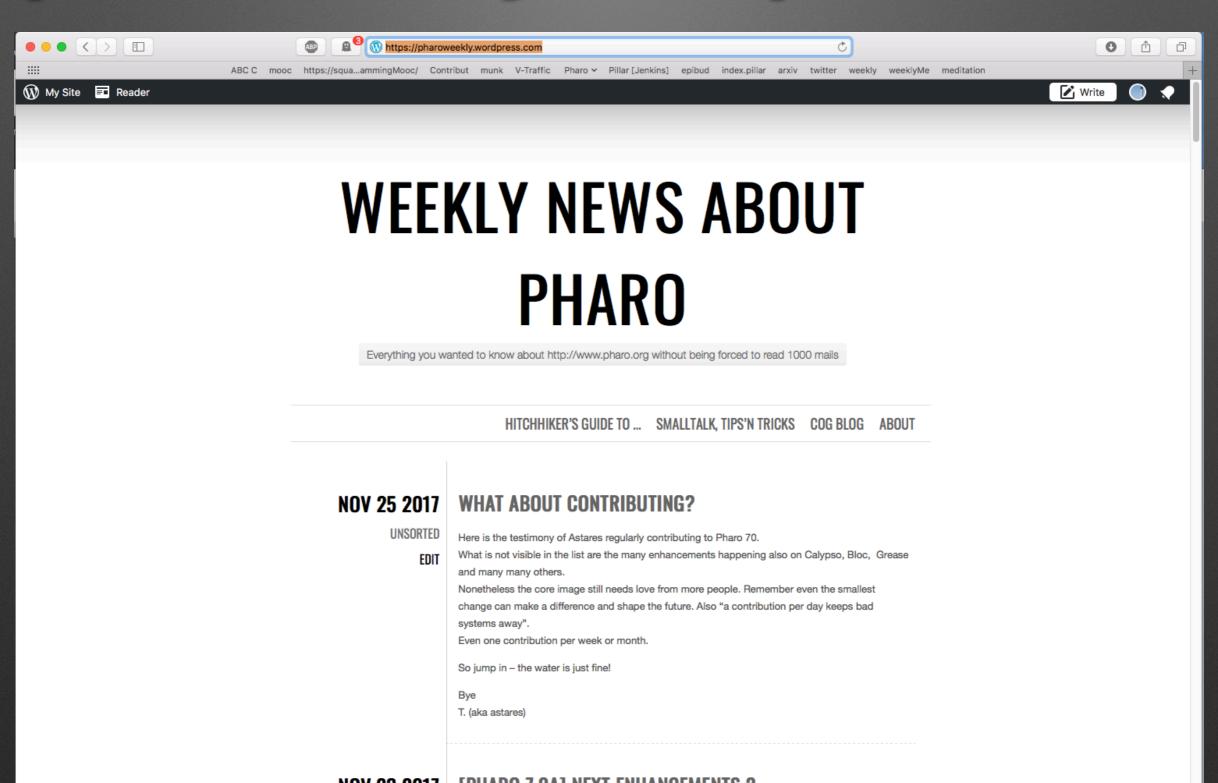
Join the discord channel mooc on the Pharo community (Invitation at http://discord.gg/Sj2rhxn)

But, you can also access all ressources of this MOOC offline on:

http://discord.gg/Sj2rhxn



https:// pharoweekly.wordpress.com



Pharo by Example

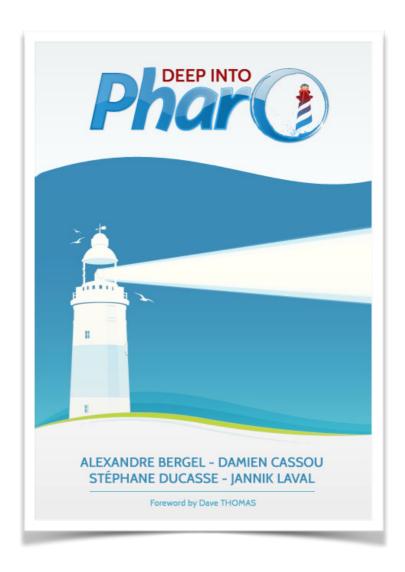
- * http://books.pharo.org
 - * translated to french, merci!
 - * translated to spanish, gracias!
 - * translated to japanese, ありがとう!
- * Currently updated to Pharo 50





Deep into Pharo

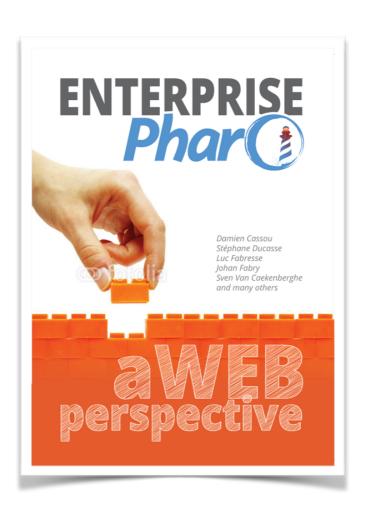
- * http://books.pharo.org
- * Some advanced topics
 - * Libraries
 - * Core language
 - * Tools





Entreprise Pharo

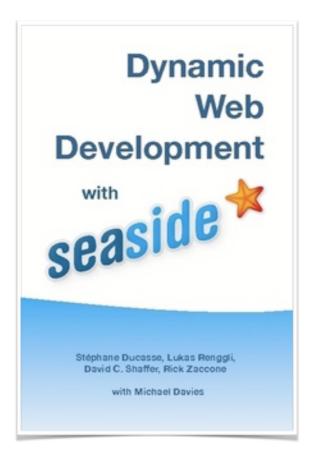
- * http://books.pharo.org
- * Web related
 - * Encodings,
 - * Mustache
 - *** JSON**
 - * WebSockets
 - * HTTP/HTTPS





Dynamic Web with Seaside

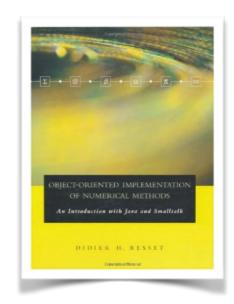
- * http://book.seaside.st
- * Full framework explained
- * DSL + Call:/answer:
- * Automatic form generation
- * Deployment





Numerical Methods

- * https://github.com/SquareBracketAssociates/ NumericalMethods
- * Data mining
- * Clustering
- * Iterative algorithms
- * Series
- * Statistical analysis







Try Pharo now!

http://pharo.org/download



News Download Documentation Community Contribute Stories About



The immersive programming experience

Pharo is a pure object-oriented programming language and a powerful environment, focused on simplicity and immediate feedback (think IDE and OS rolled into one).

