Pharo: Live objects for complex projects

http://stephane.ducasse.free.fr http://www.pharo.org





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....





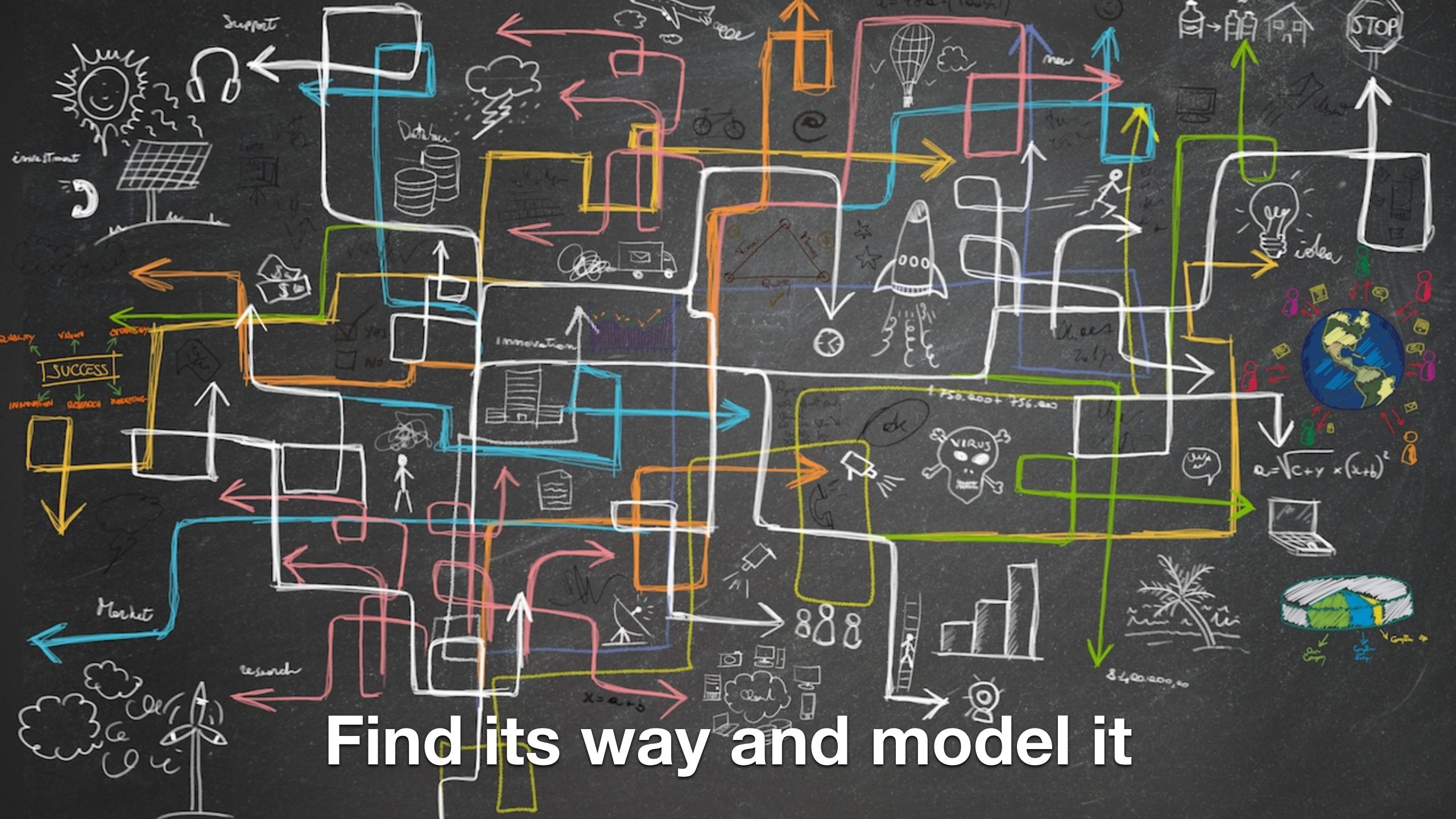
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- Building *specific* analysis tools for important running business software (Ada, Cobol, 4D, C, C++, Java...)
- **Dedicated** tools to support decision making process

A startup... is like a compass

MS





Phanet De la contraction de la

• 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

Full syntax on a postcard Simple and powerful objet model



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







Yes the full Syntax!

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 * All methods are public virtual * All attributes are protected * Single inheritance + Traits * Closures everywhere

Lementinting of

* Everything is an object instance of a class 2712.00-12

* HÖRNUM*



Focus on intrinsic complexity

Eliminate accidental complexity

Everything is written in Pharo One simple syntax to rule them all

Fully Written in Itself



<section-header>

Pharo is highly immersive

Most languages do not expose much

Looking inside

* Pharo is not a blackbox * Pharo is fully inspectable and reflective * You can get immersed in

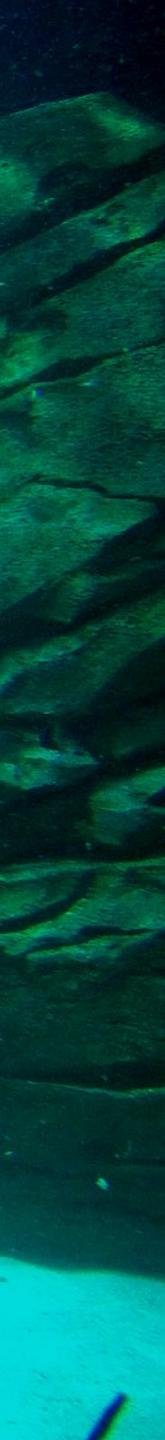
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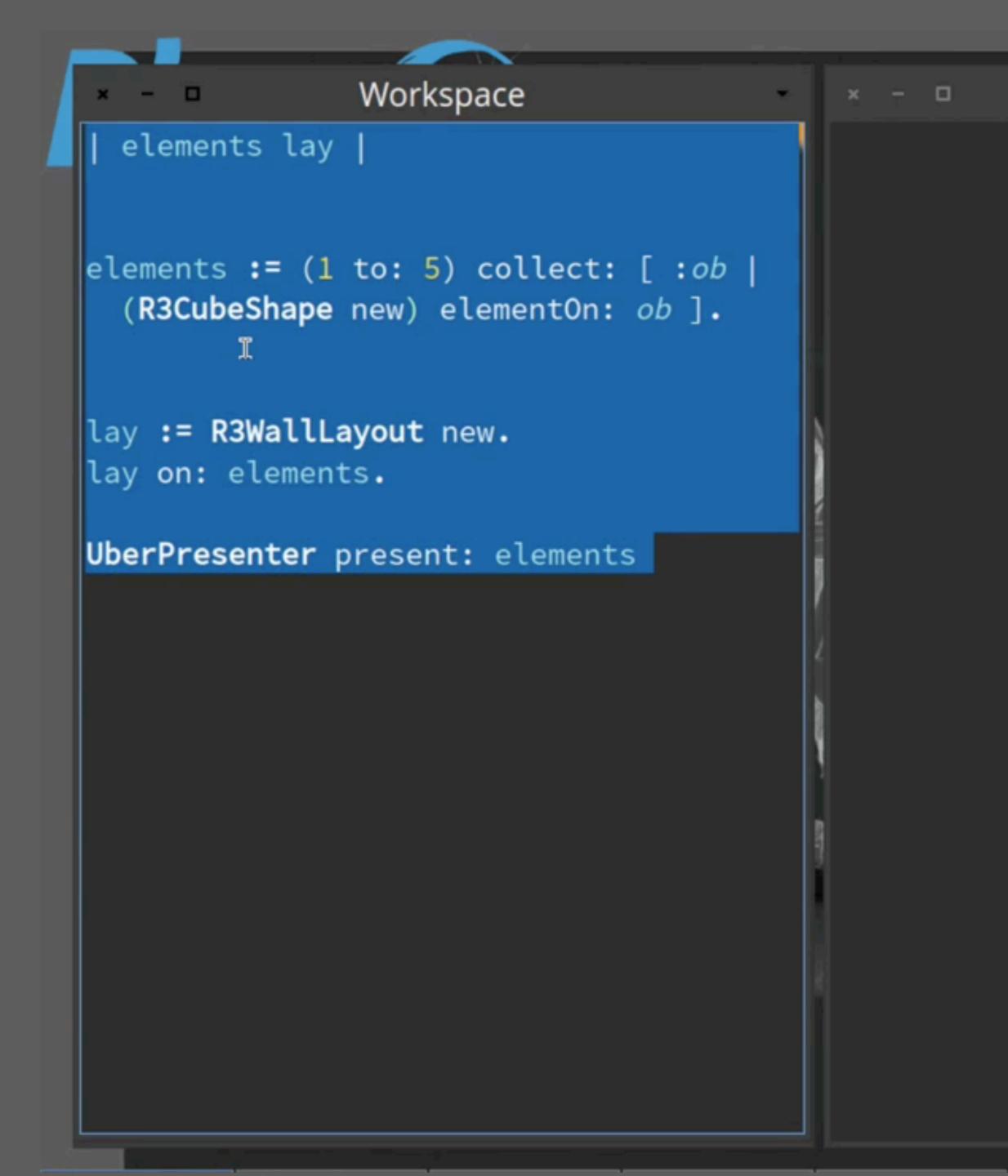




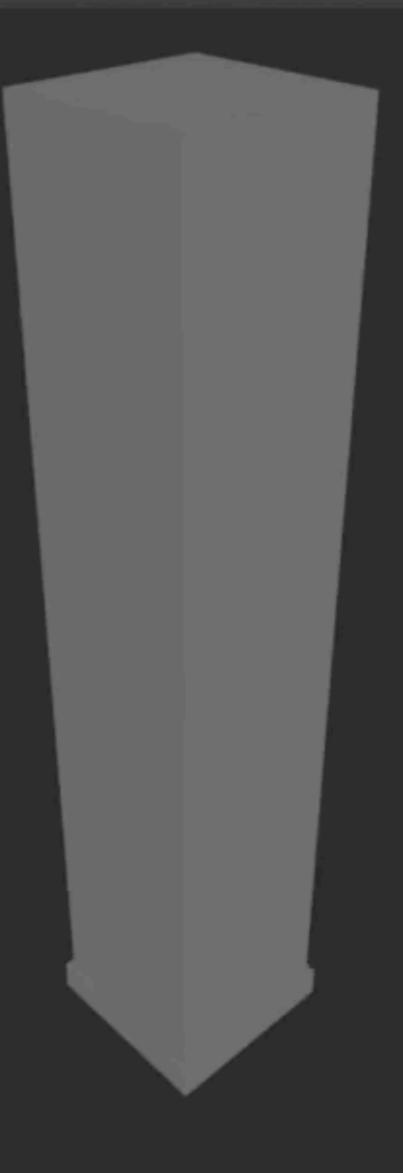
Immersed and interacting

* You interact with objects # You modify objects life





Uber Presenter



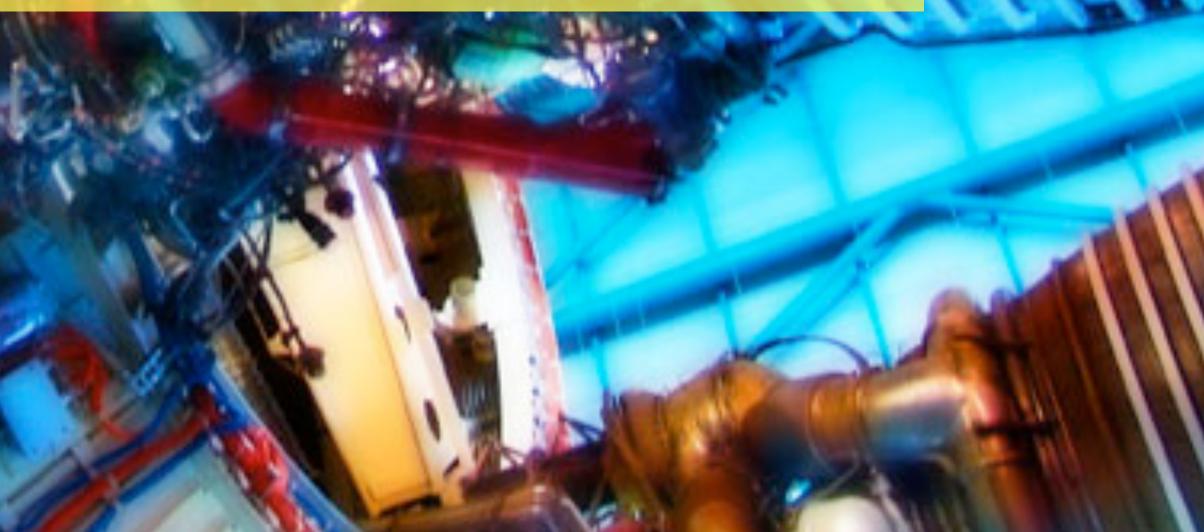




We can do the same with web app, sockets, networks, sensors, living programing....



A powerful engine to invent (y)our future

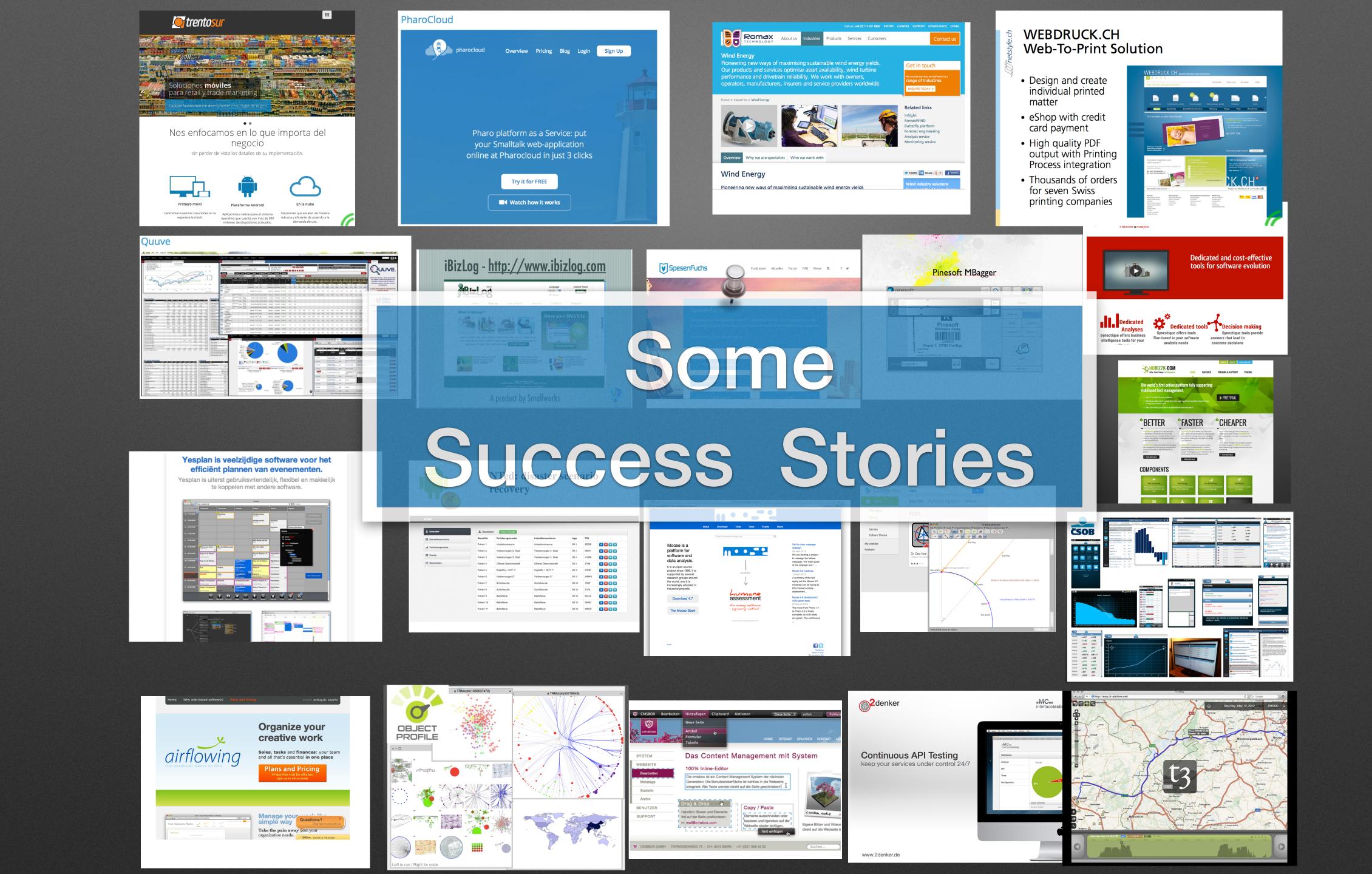




An ecosystem where innovation/business bloom



... 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.

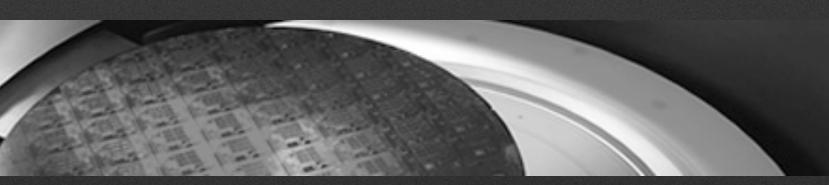


Back-End Wafer-Level Packaging

Your mobile hardware as a highchance to have been produced by a robot controlled via a smalltalk



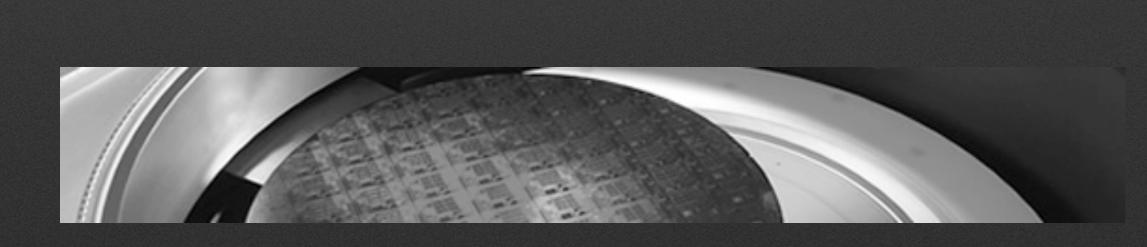
50% microprocessors of your mobile/PC/tablet





LANRC **Back-End Wafer-Level Packaging**

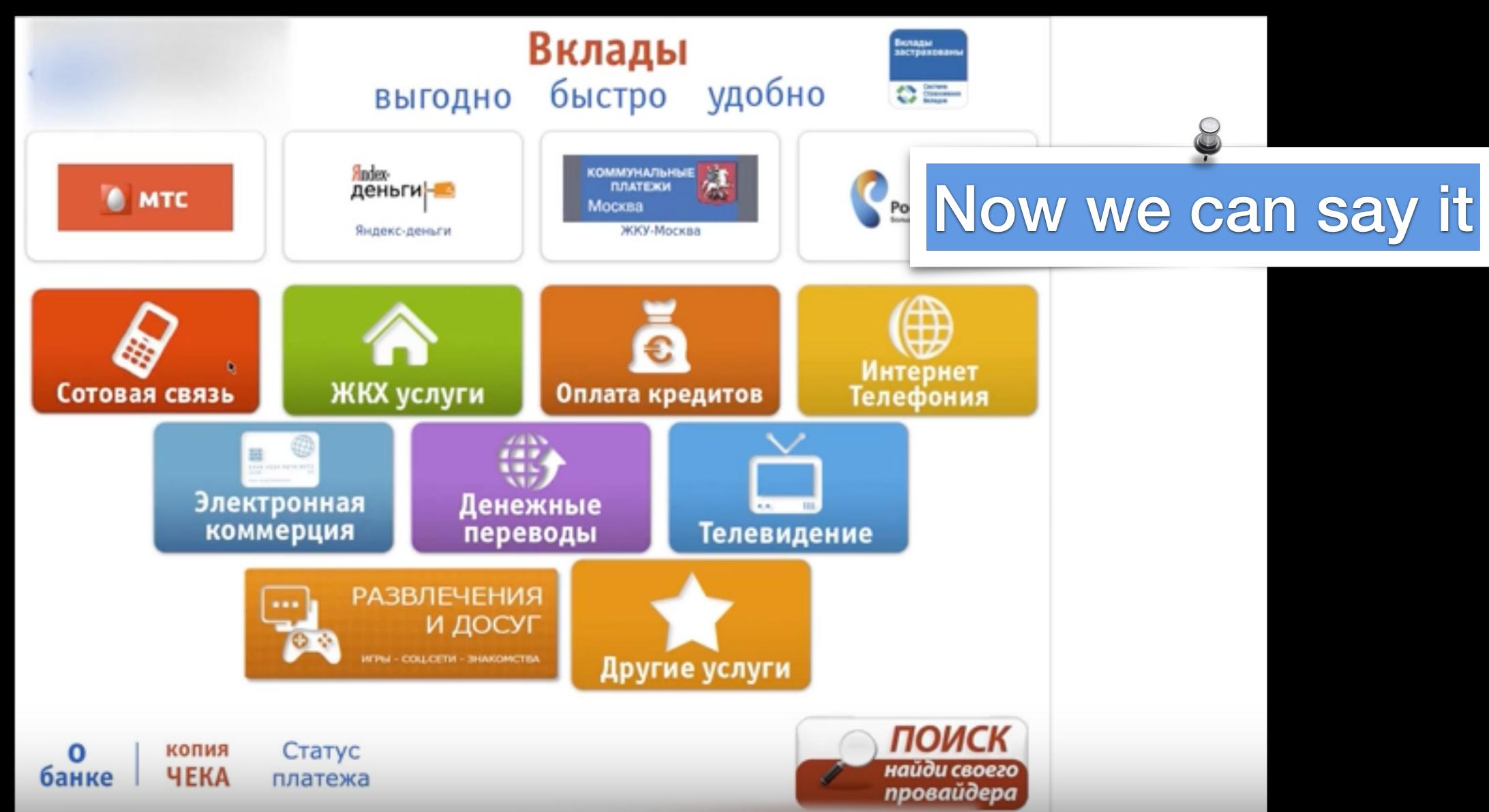
Your mobile hardware as a highchance to have been by a robot controlled smalltalk



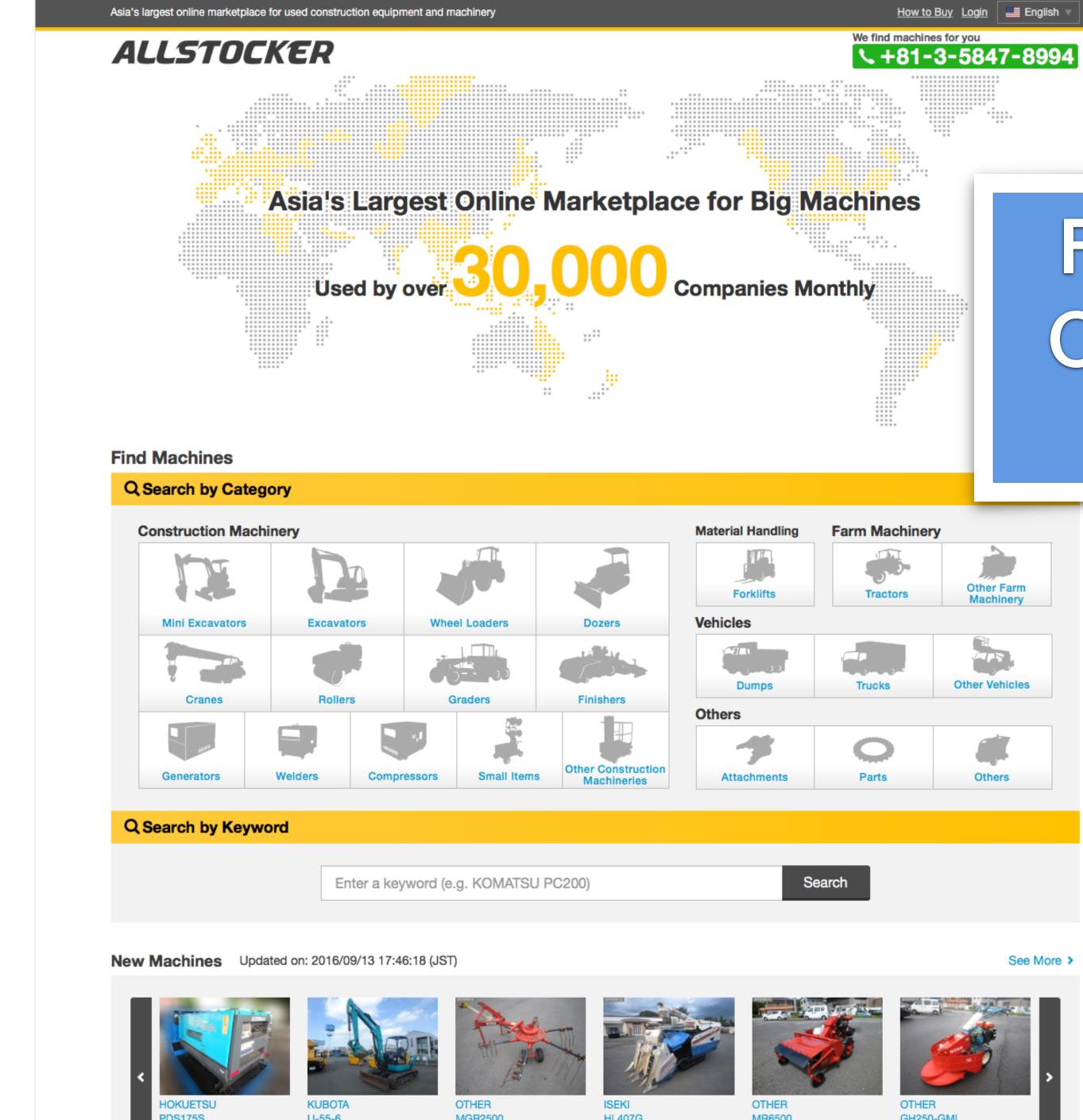
Started to experiment with Pharo



Pharo in ATM like Device in Moscow



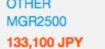




HL407G 198,000 JPY

PDS175S 400,000 JPY

U-55-6 3,500,000 JPY

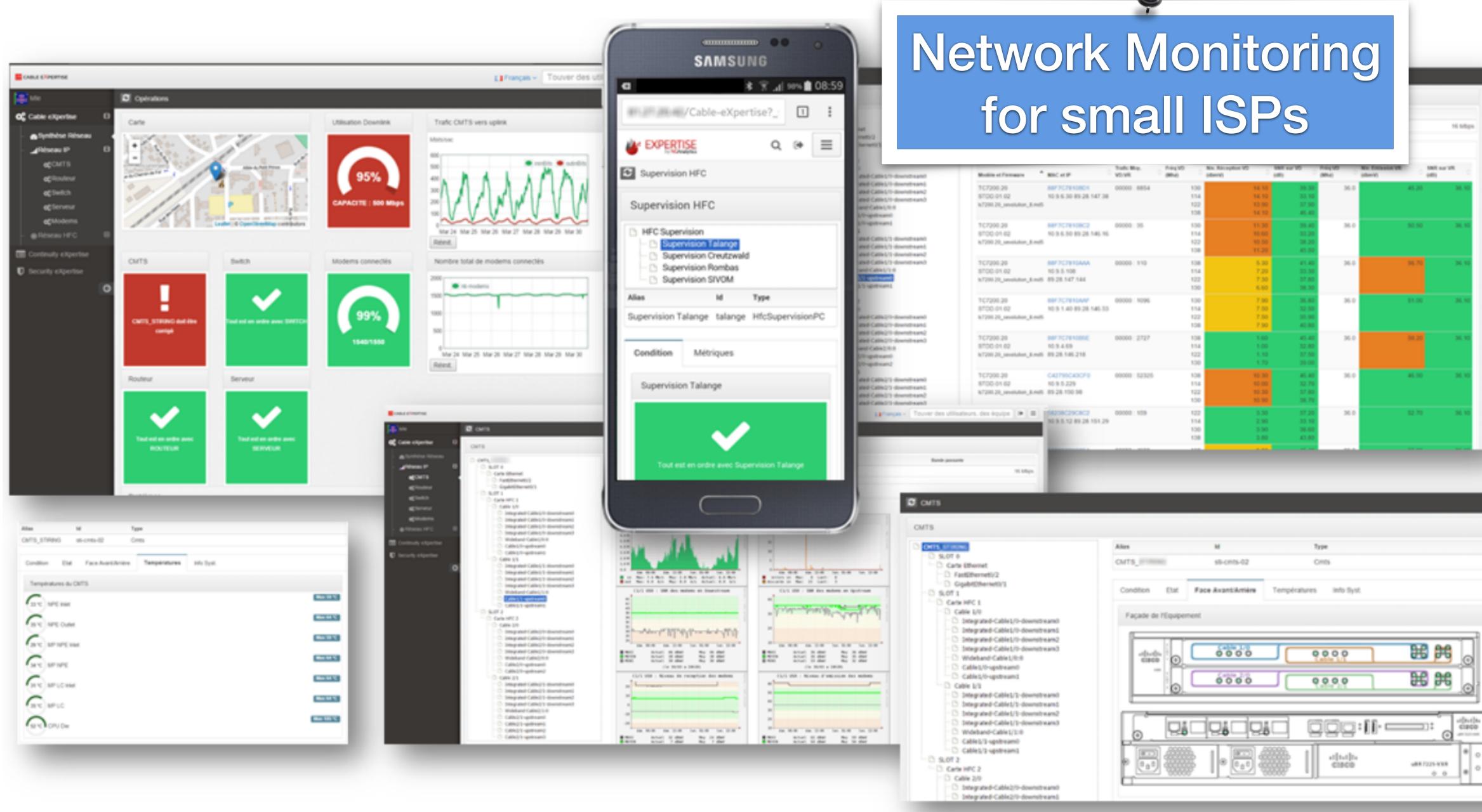


Full Stack in Pharo Online marketplace raised 4.7 M\$

MR6500 143,000 JPY

GH250-GML 165,000 JPY











Overview

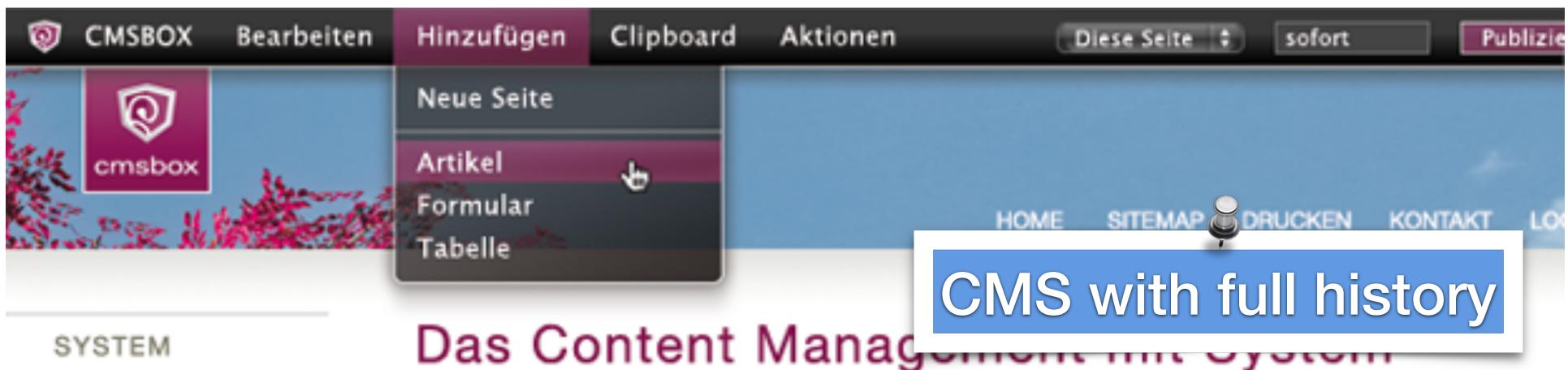
Try it for FREE



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

Watch how it works

Deploy Pharo on the cloud in 3 min



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100% Inline-Editor

Die cmsbox ist ein Content Management System der nächsten Generation. Die Benutzeroberfläche ist nahtlos in die Webseite integriert: Alle Texte werden direkt auf die Seite geschrieben!

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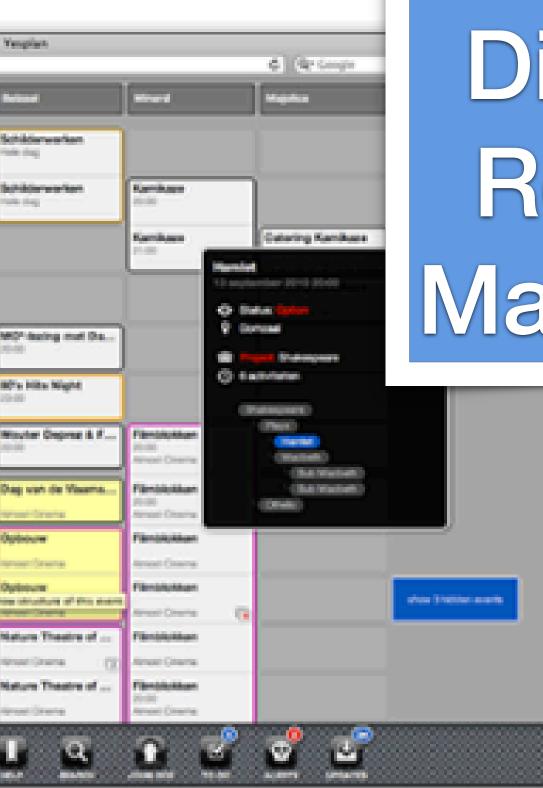
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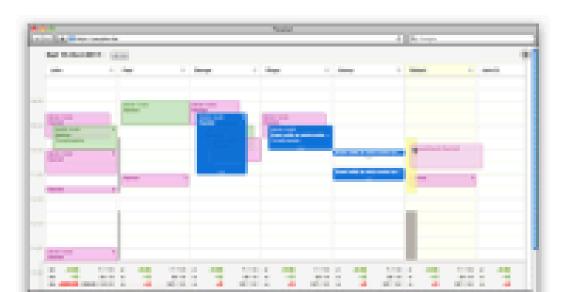
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Yesplan is uiterst gebruiksvriendelijk, flexibel en makkelijk te koppelen met andere software.

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Distributed Resources Management

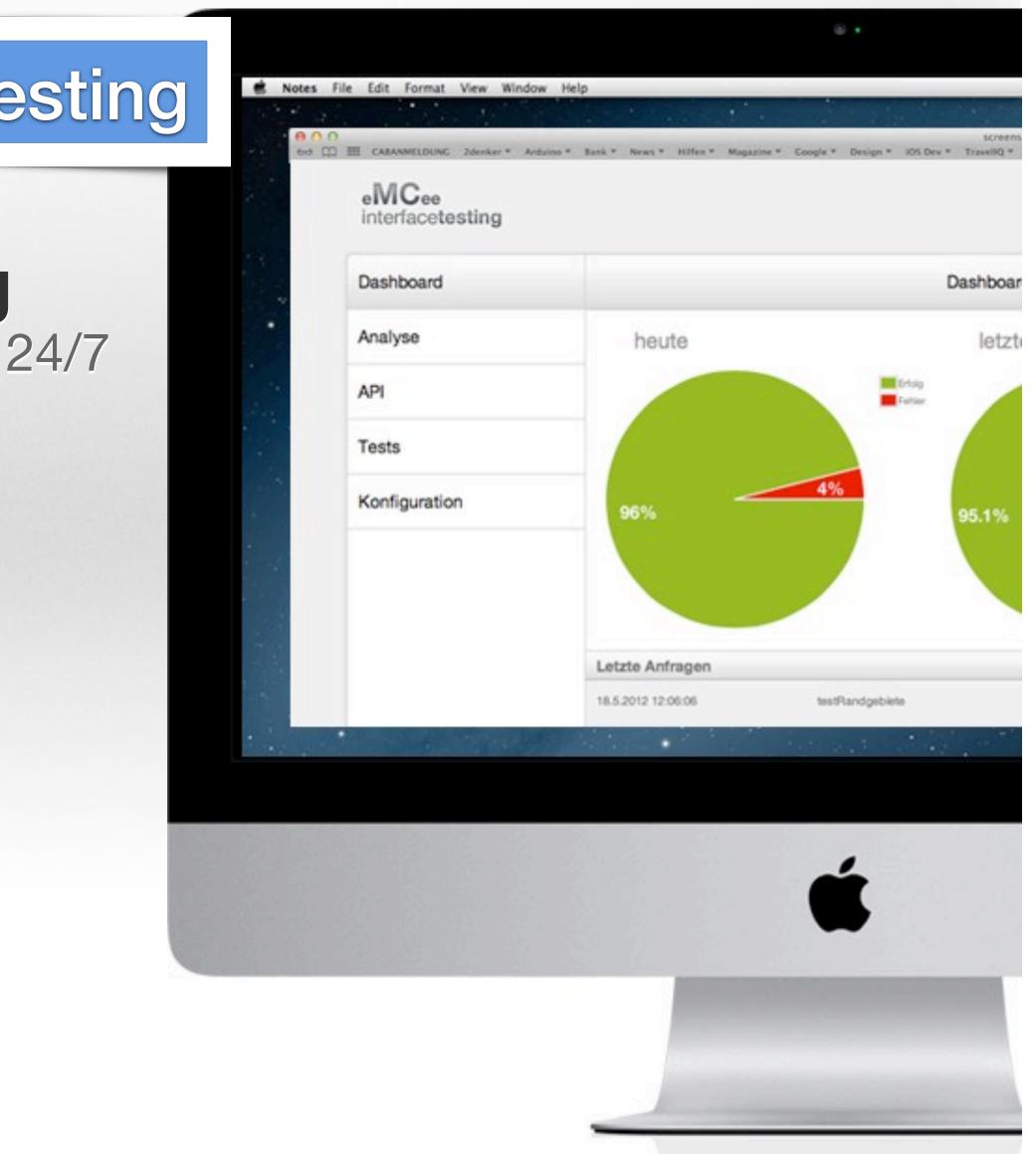




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- Blocks Mappen
- Poster Tischsets Monatskalender

Debris Publishing Web Inter



Base Valuations

Year	2008	2009	2010	2011	2012	2013	2014	2014
Period End Date	06/30/2008	06/30/2009	06/30/2010	06/30/2011	06/30/2012	06/30/2013	06/30/2014	09/30/2014
Period Duration (Years)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.25
Price High	35,96	31.50	31.58	29.46	32.95	38.98	50.05	
Price Low	17.50	14.87	22.73	23.65	26.26	26,28	34.63	
Price /sh	47.2	-						
Excess Cash /sh	2,41	3.38	4.03	6.05	7.33	8.98	10.09	10.53
Revenue Growth %		-3.28	6.93	11.94	5.40	5.60	11.54	5.38
Gross Margin %	80.80	79.20	80.16	77.73	76.22	73.99	68.98	67.11
Leverage	2.01	1.97	1.86	1.90	1.83	1.80	1.92	1.88
Common Shares Outstanding	9328.00	8945.00	8813.00	8490.00	8396.00	8375.00	8299.00	8249.00
GAAP Dil, Cont. EPS VNG	18.70	16.20	21.00	26.90	20.00	25.80	26.30	25.50
GAAP EPS VNG	19.00	16.30	21.30	27.30	20.20	26.10	26.60	25.80
GAAP EPS V3G	27.14	23.29	30.43	39.00	28.86	37.29	38.00	36.86
2 X GAAP EPS V3G	54.29	46.57	60.86	78.00	57.71	74.57	76.00	73.71
EPS VNG	18.95	16.29	21,29	27.27	20.22	26.11	26.60	25.91
EPS avg5 VNG					20,80	22,23	24.30	25.22
EBIT /sh VNG	25.53	22.16	28.38	33.06	26.52	32,30	33.52	33.10
bm EPS VNG		10.52	13.37	21.24	19.81	24.42	25.13	12.62
bm EPS V3G		15.03	19.10	30.34	28.29	34.89	35. 8 9	18.03
tom EPS VNG		9.67	13,94	20.92	15.70	23.04	13.64	12.83
m EPS avg3 V3G				21.49	25.91	31.17	33.02	29.60
2 X bm EPS avg3 V3G				42.99	51.83	62.35	66.05	59.21
bm EPS avg5 VNG						17.87	20.79	20.64
bm EPS avg5 V3G						25.53	29.70	29.49
Fair Price bm ROE3				21.55	26.34	31.90	31.46	25.62
Fair Price bm ROE5						29.59	34.38	31.39
Fair Price bm ROE7								31.32
Fair Price tom ROE5						31.70	30,34	26.10
Fair Price via NetMargin7 with 3% Growth							41.39	42.55
F9 Trend Score V1	(3/3)	(6/7)	(8/9)	(7/9)	(5/9)	(7/9)	(4/9)	(6/9)
Financial Strength Score V2	(14/19)	(19/24)	(26/29)	(27/30)	(26/30)	(27/30)	(27/30)	(27/30)

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	Non-Common Equity Capital Yield %
	Common Equity Price-Low Yield %
	Common Equity Price-High Yield %
	Common Equity Yield %

PER SHARE MEASURES

Year	2008
Total Assets /sh	7.80
Tang. Assets /sh	6.29
Tang. Op. Assets /sh	3.89
Non-Common Equity Capital /sh	0.71
CPC /sh	3.91
CLTPC /sh	0.71
Excess Cash /sh	2.41
Net-Net /sh	0.72
Book /sh	3.89
Tang. Book /sh	2.38
Revs. /sh	6.48
Operating Income /sh	2.39
LCF /sh	2.12
NCF /sh	1.83
SFCF /sh	1.98
GAAP Dil. Cont. EPS	1.87
GAAP EPS	1.90
Revs.	60420.00
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Quuve: Investment Portfolio http://debrispublishing.com

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LEVERAGE

Fixed Assets Margin %

Accts. Payable Margin %

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Debris Publishing Web Interface

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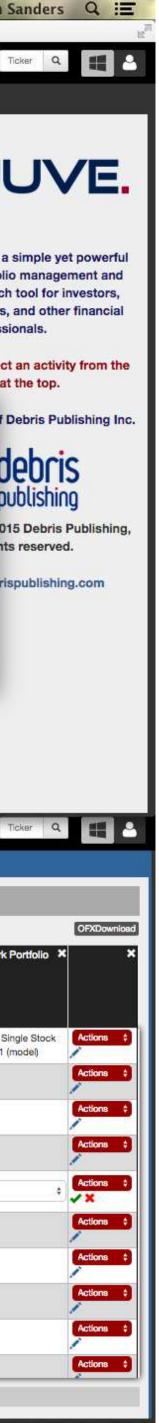
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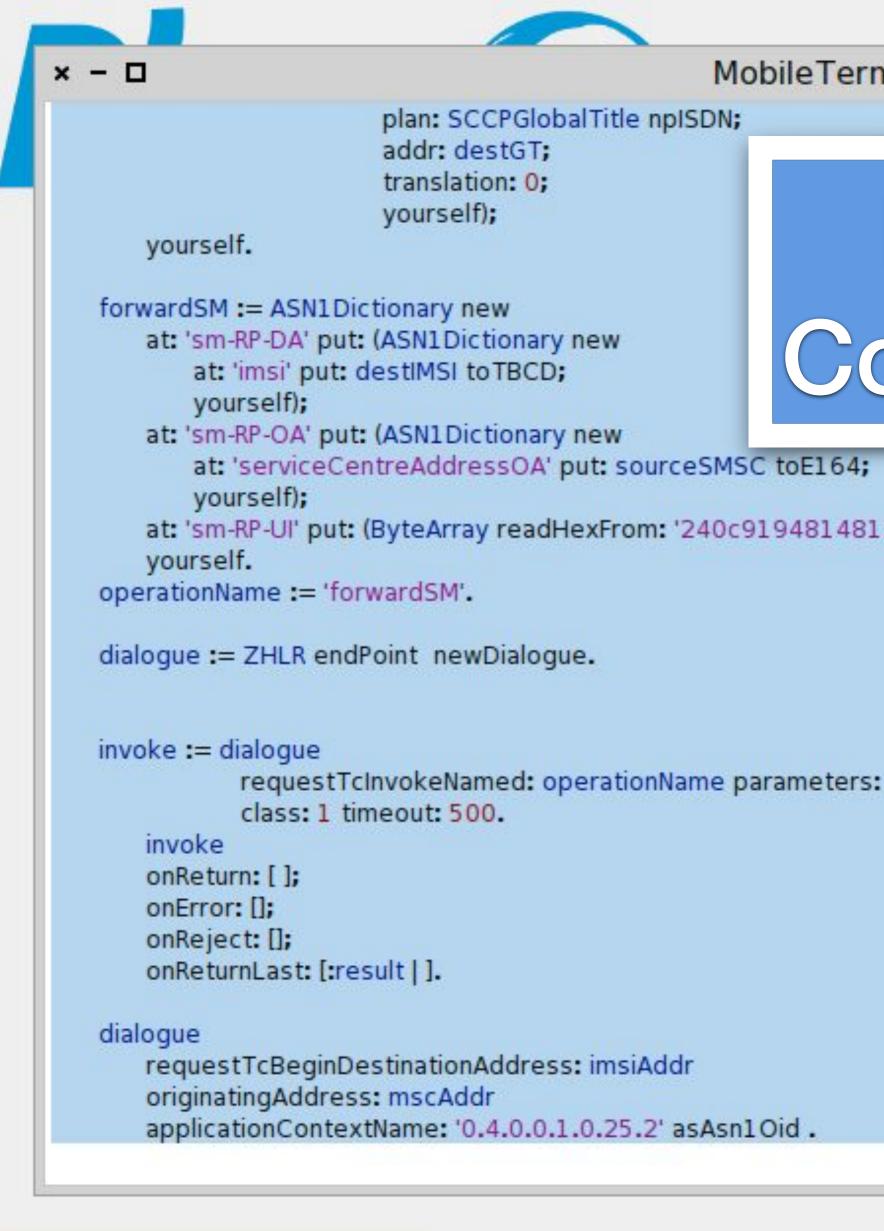
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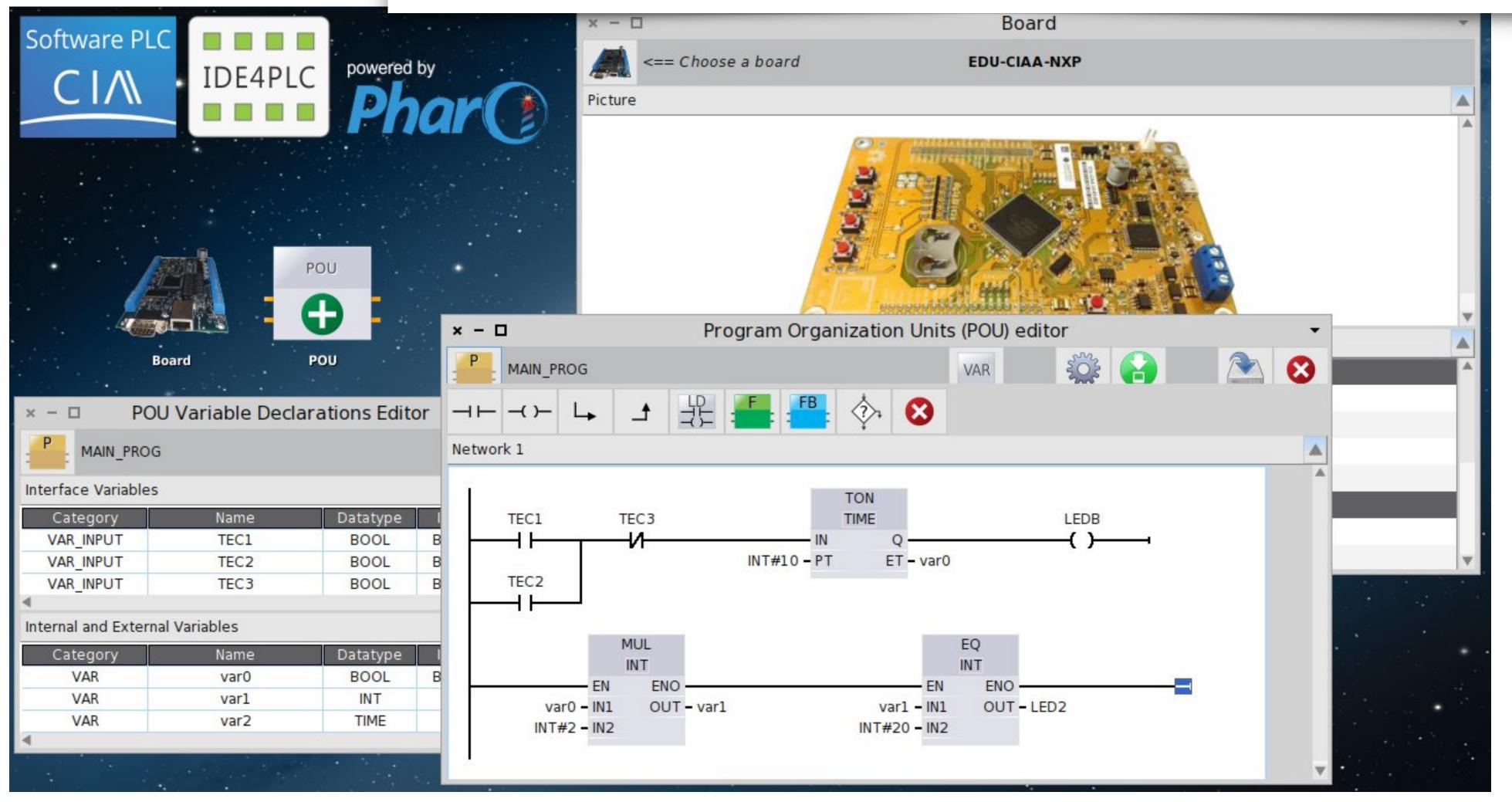
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Programming environment for Programmable Logic Controllers





NTed: disaster scenario recovery

NTed

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Interaktionsschema	Darsteller	Verletzungsmus
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Events	Patient 3	Verbrennungen 3
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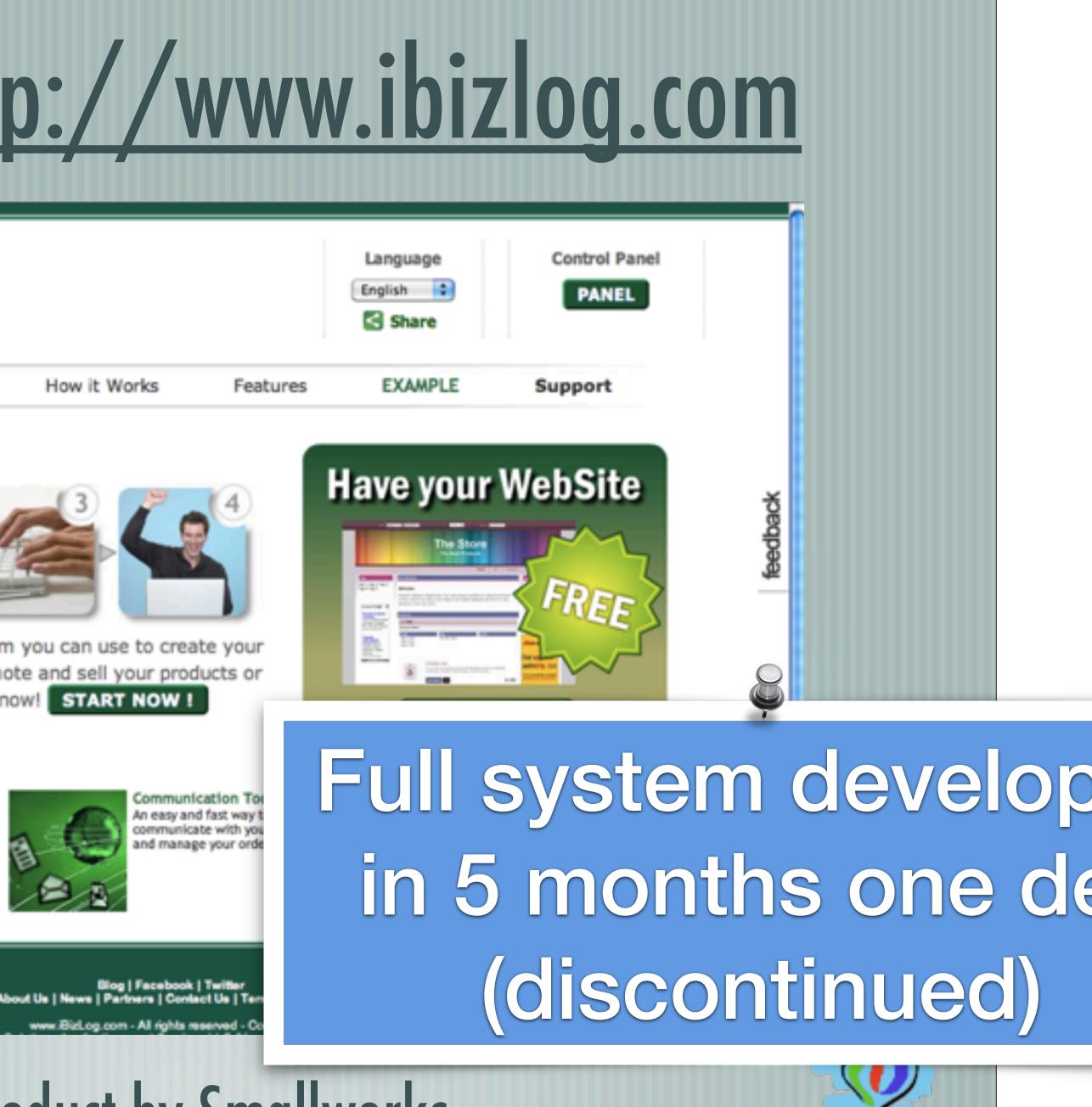
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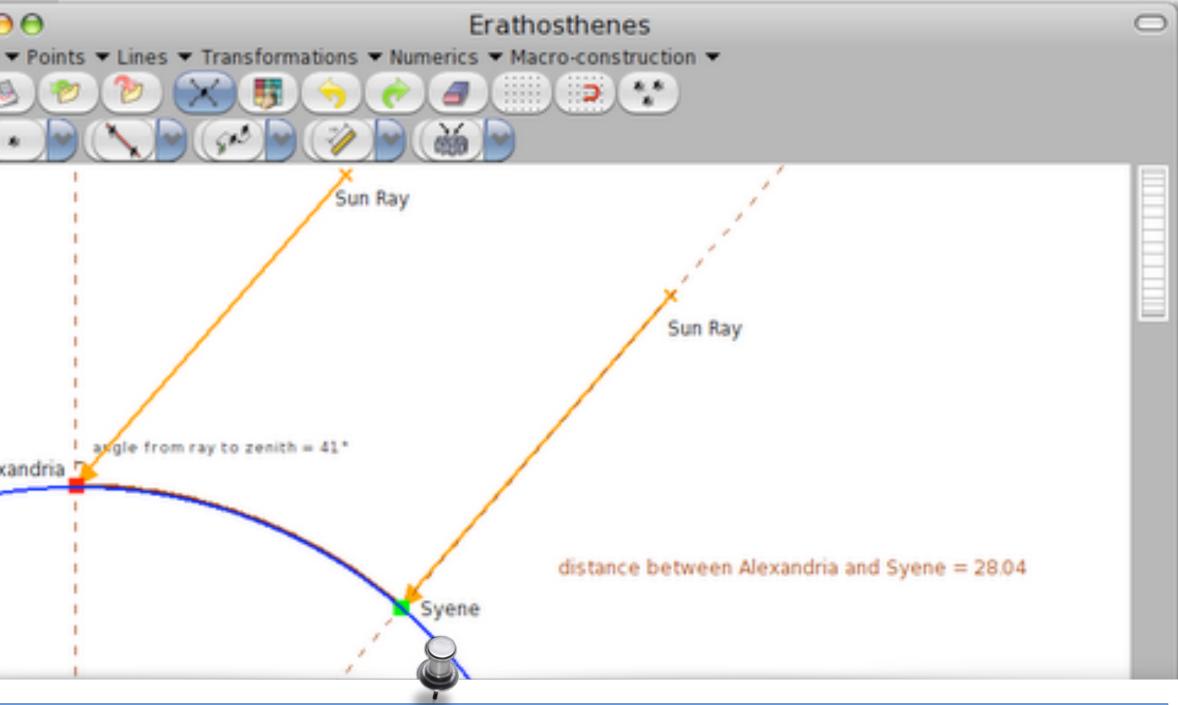
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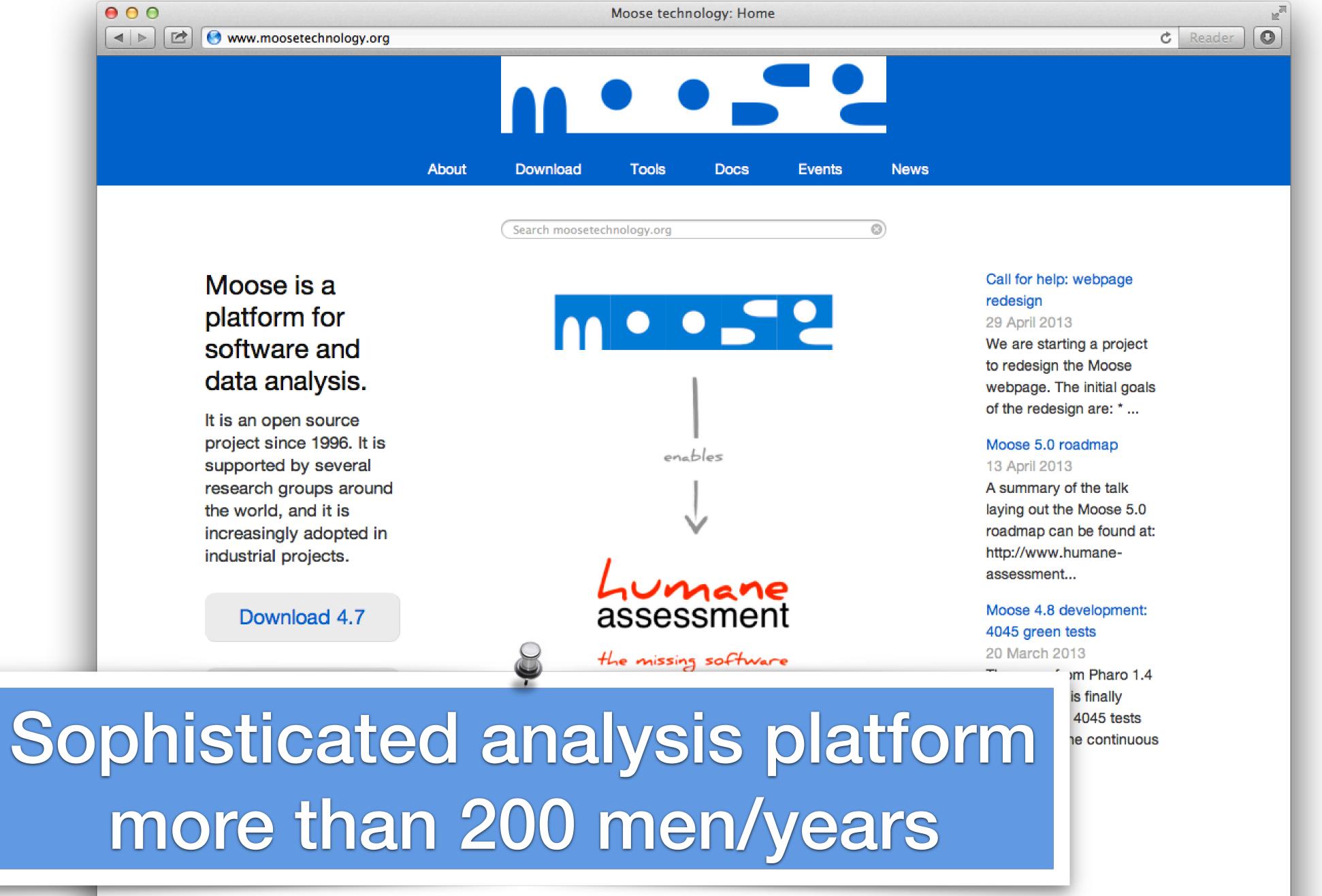
Works on linux, mac, windows, android, OLPC





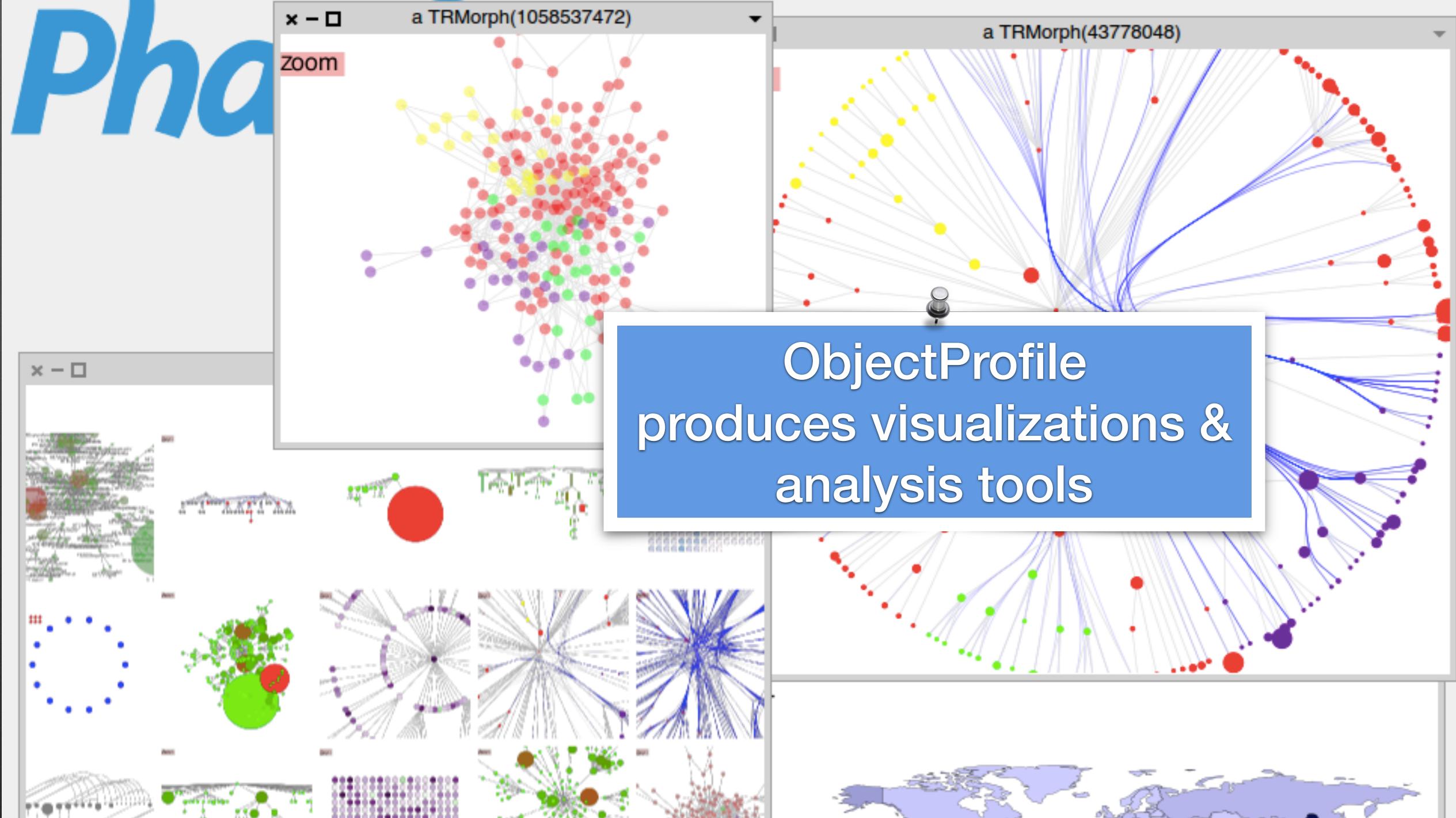
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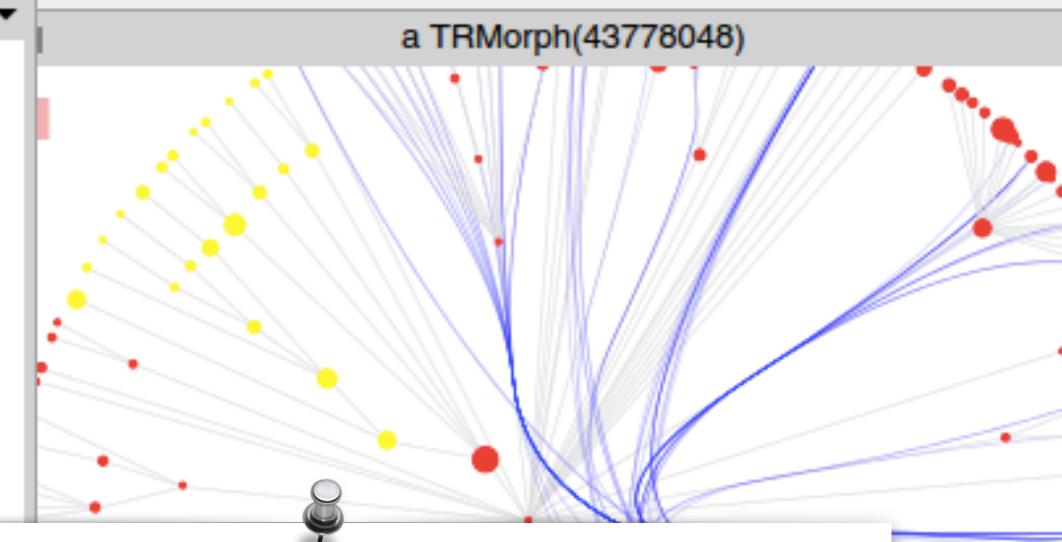




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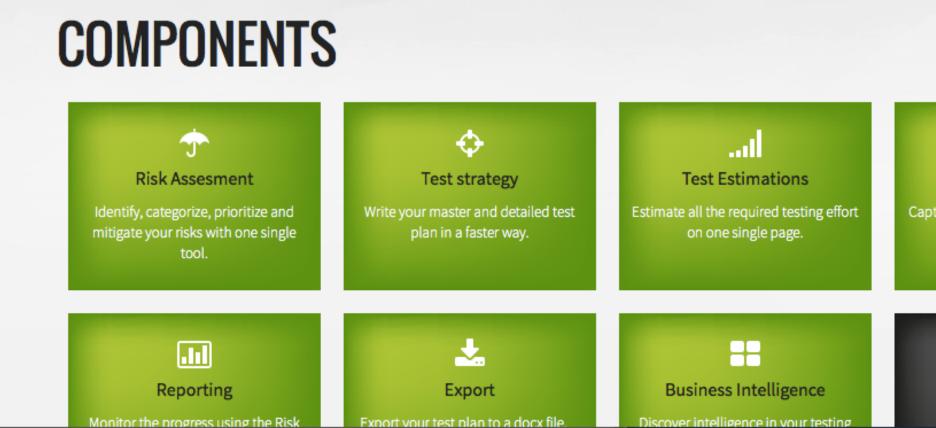
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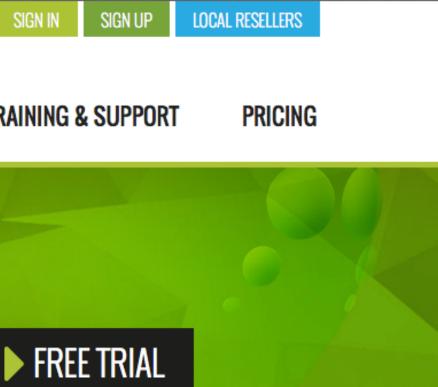
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sustainable testing intelligence maintained.

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Digitalizing business

 $\mathbf{\mathbf{V}}$ Test Results Capture all the test results to monitor the progress.

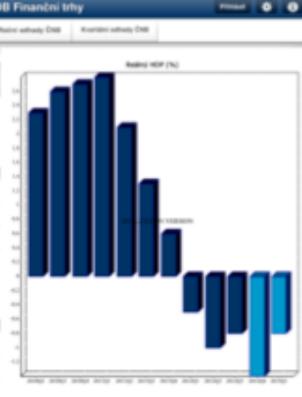
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Developed in 3 months one dev Sold to Belgium bank Java team estimated 2 years

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Why web-based software? Plans and Pricing Home



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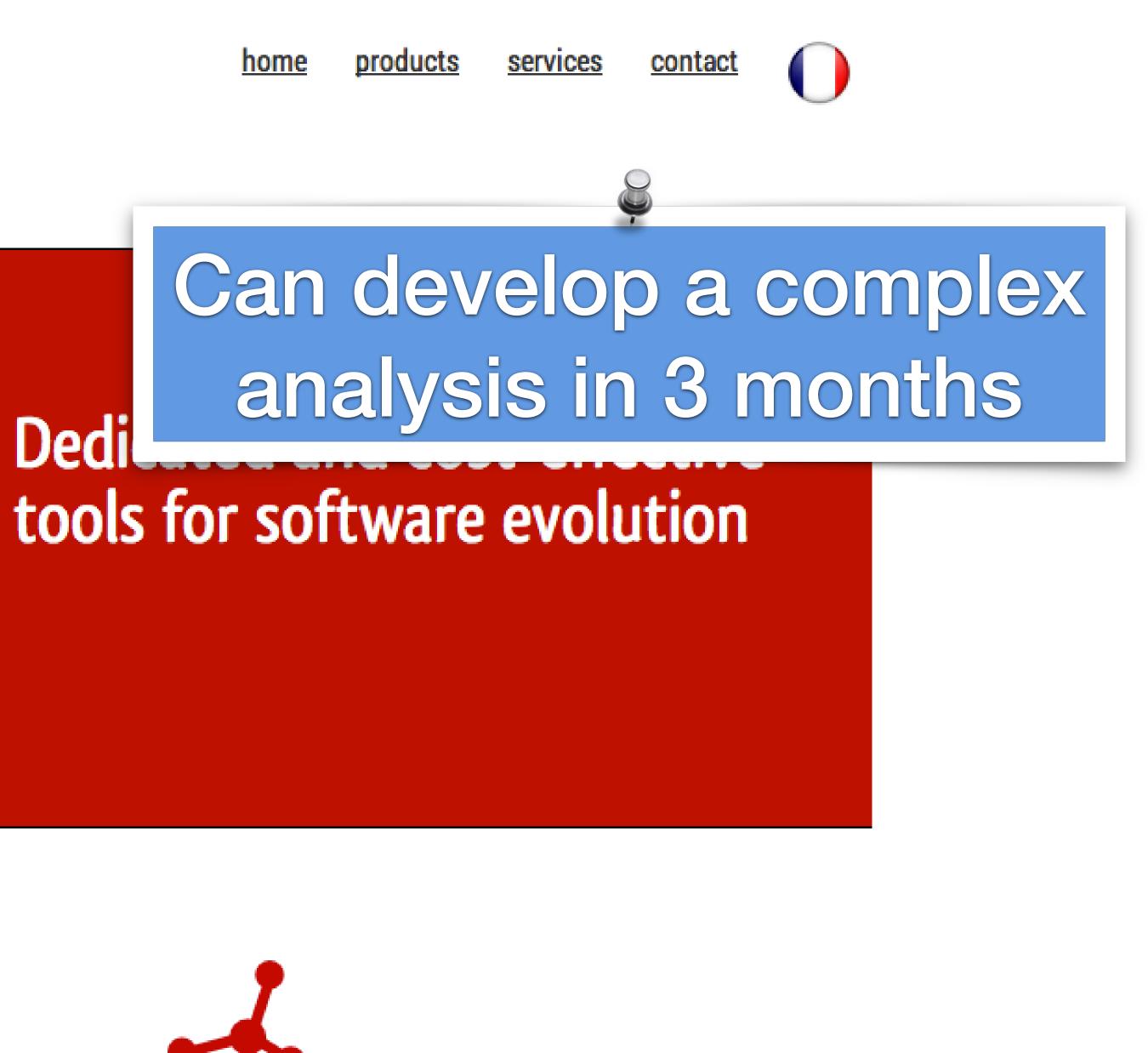
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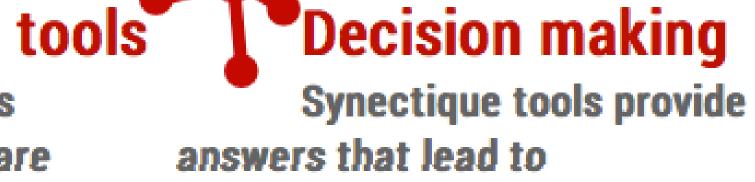














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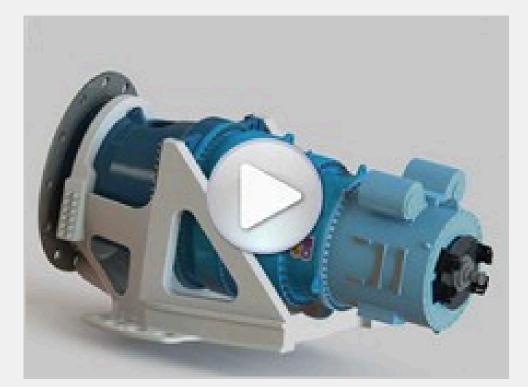
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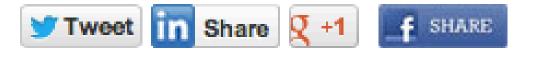
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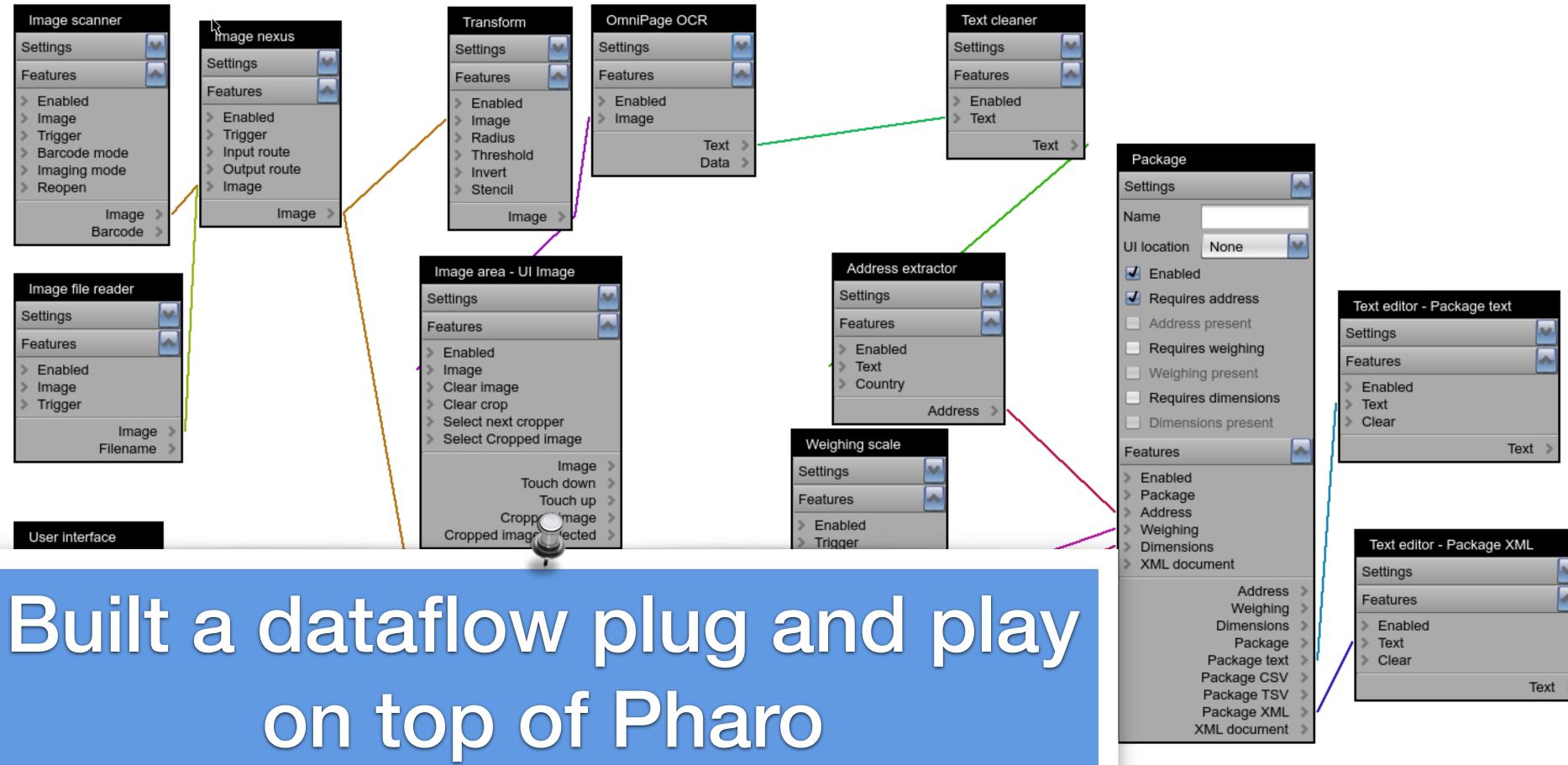
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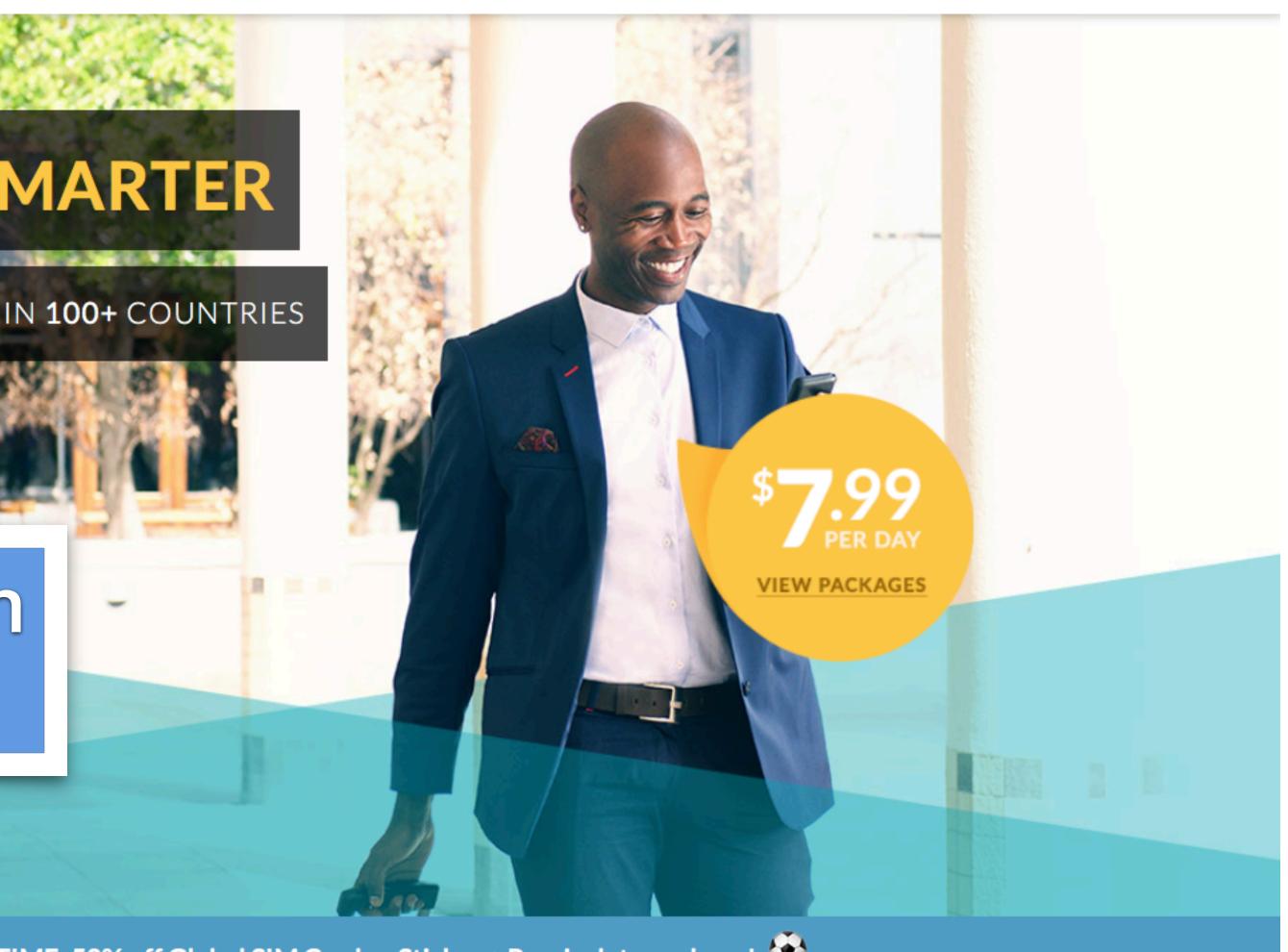
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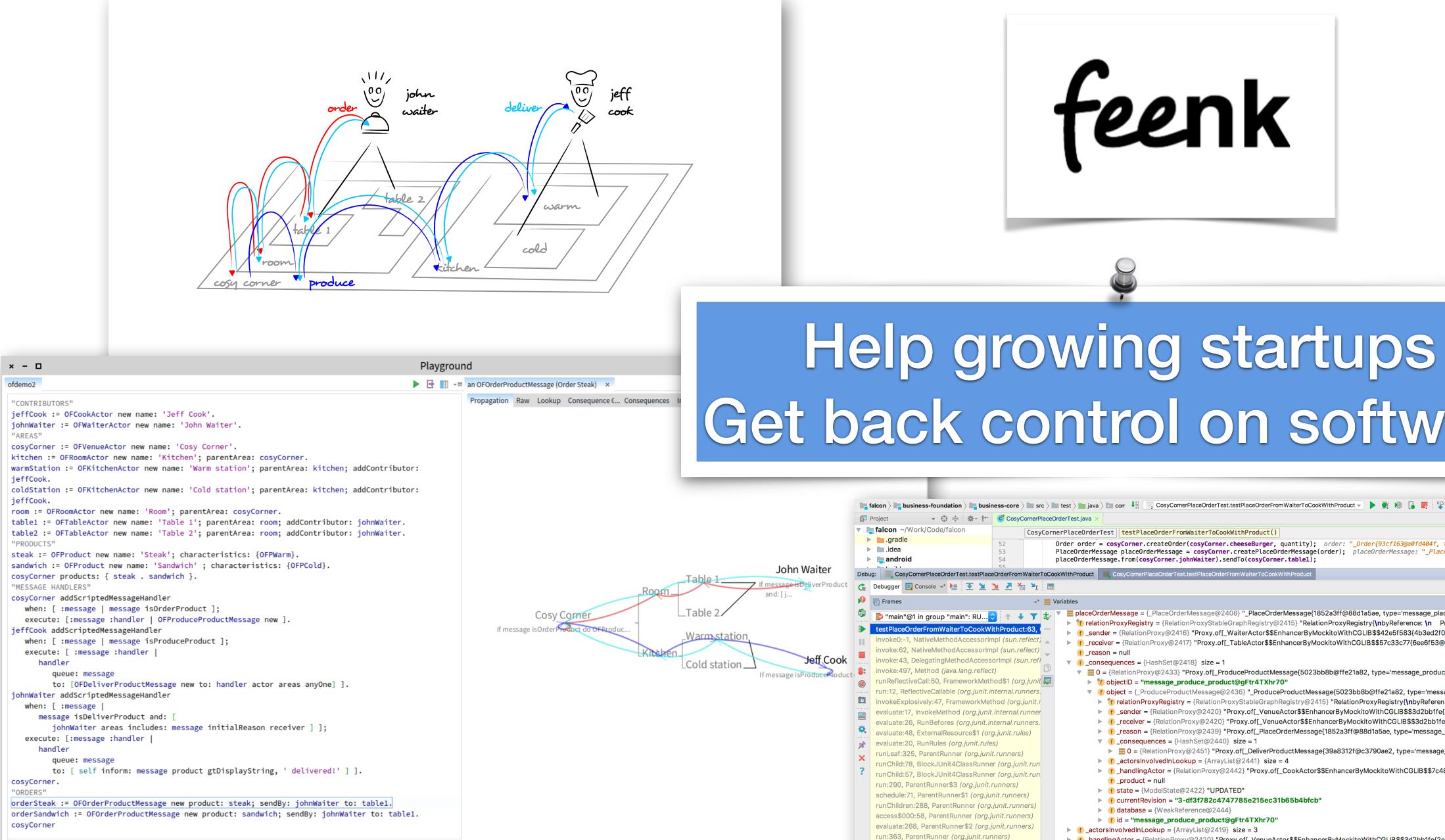
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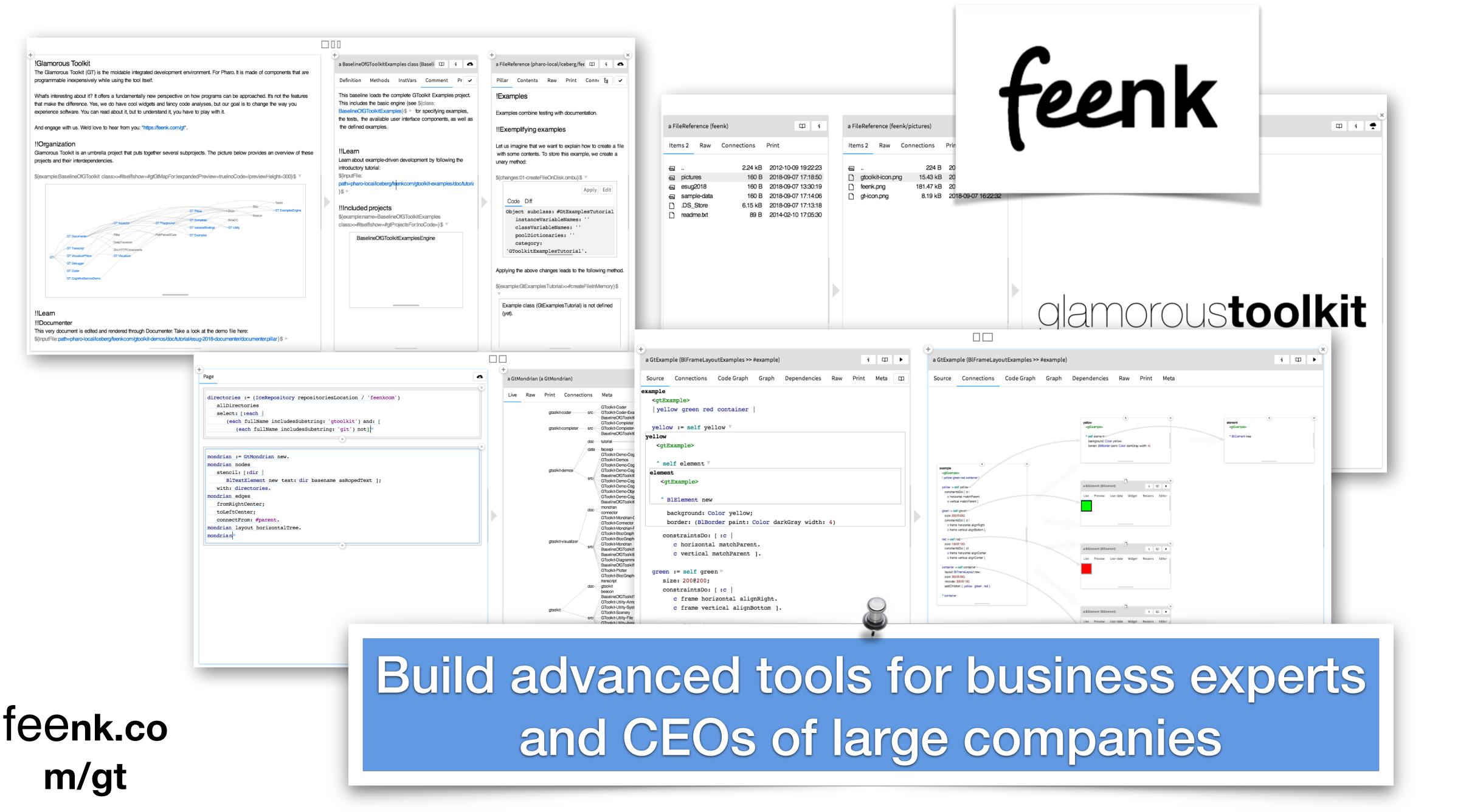
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Get back control on software

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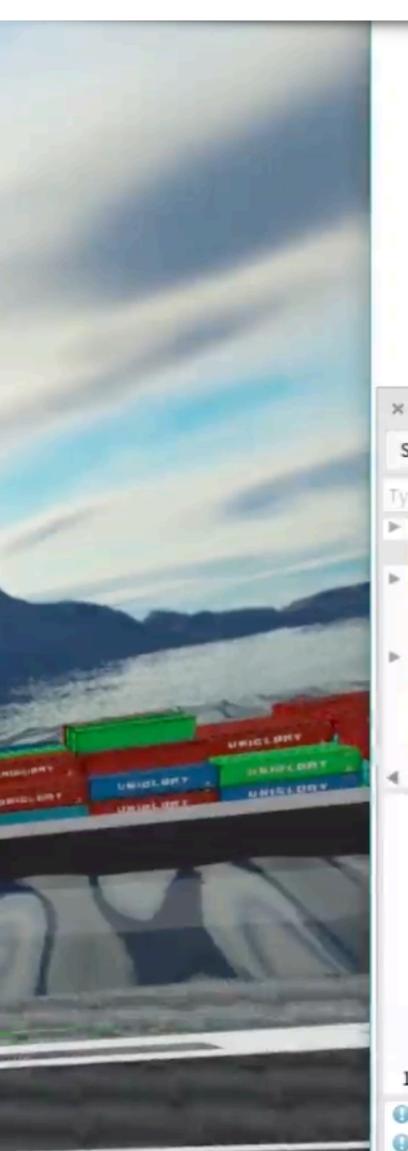




Phar Thales prototyping VR

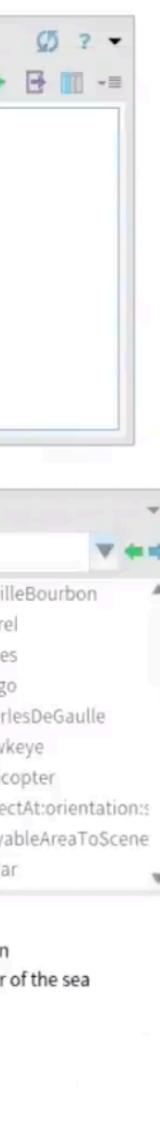
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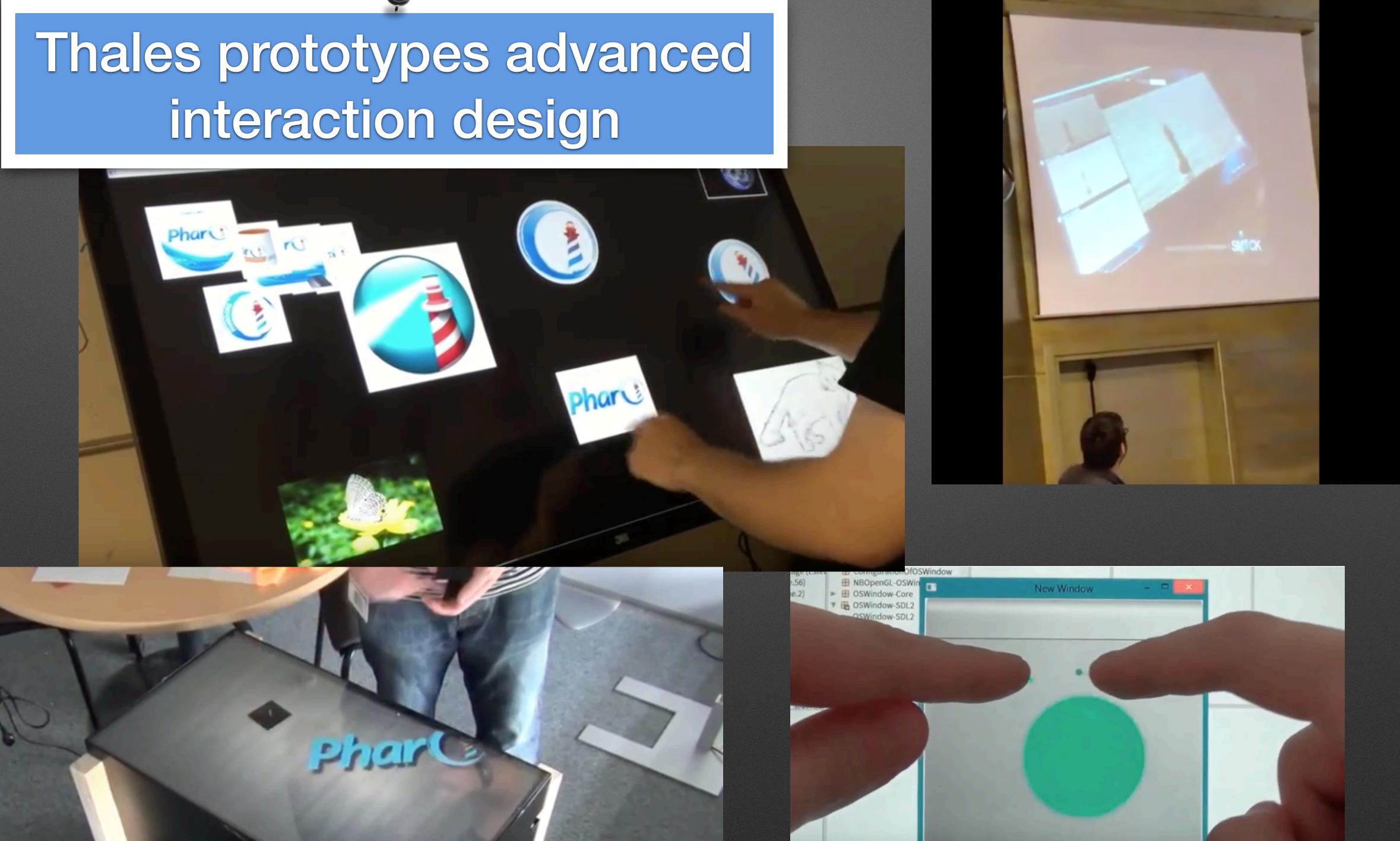


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interaction design



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

smart forfour

AIRBUS



AIRBUS

smart forfour

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28. Sep 2018 08:45 until 28. Sep 2...

29. Sep 2018 15:00 until 29. Sep 2...



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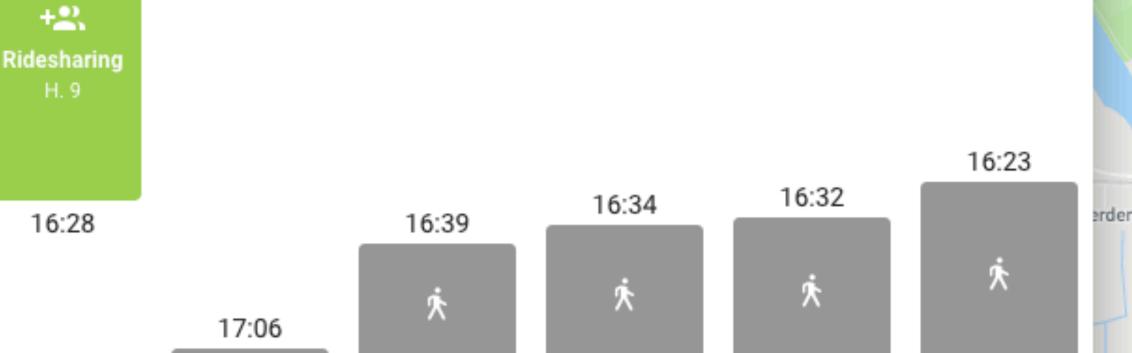
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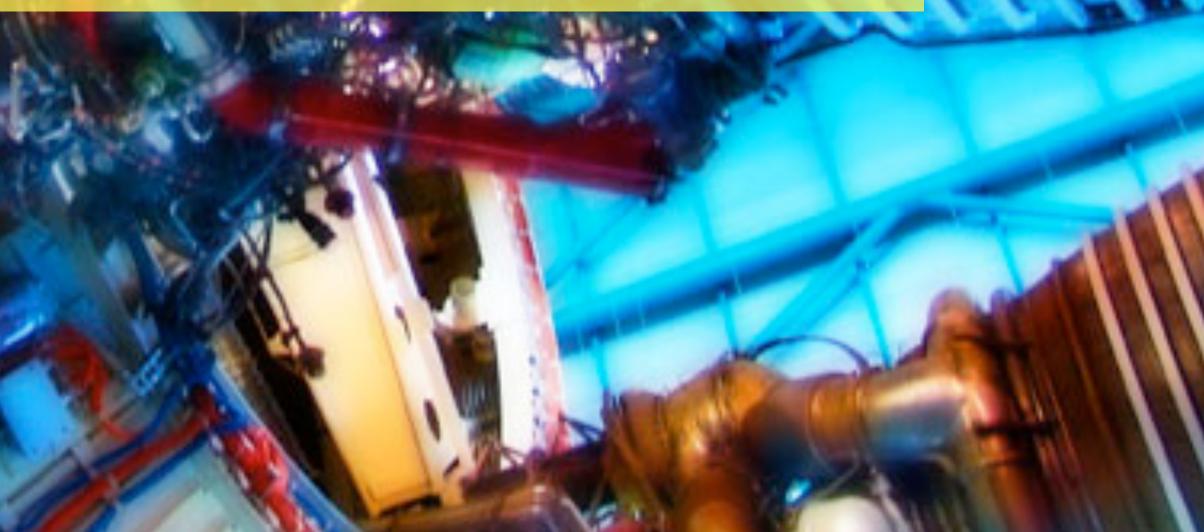




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Remember? Our goal...

A powerful engine to invent (y)our future





An ecosystem where innovation/business bloom



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Industrial consortium

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

We are a cool community



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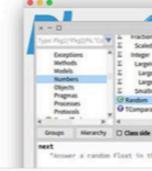


The Pharo MOOC



The immersive programming experience

Pharo is a pure object-orier simplicity and



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:

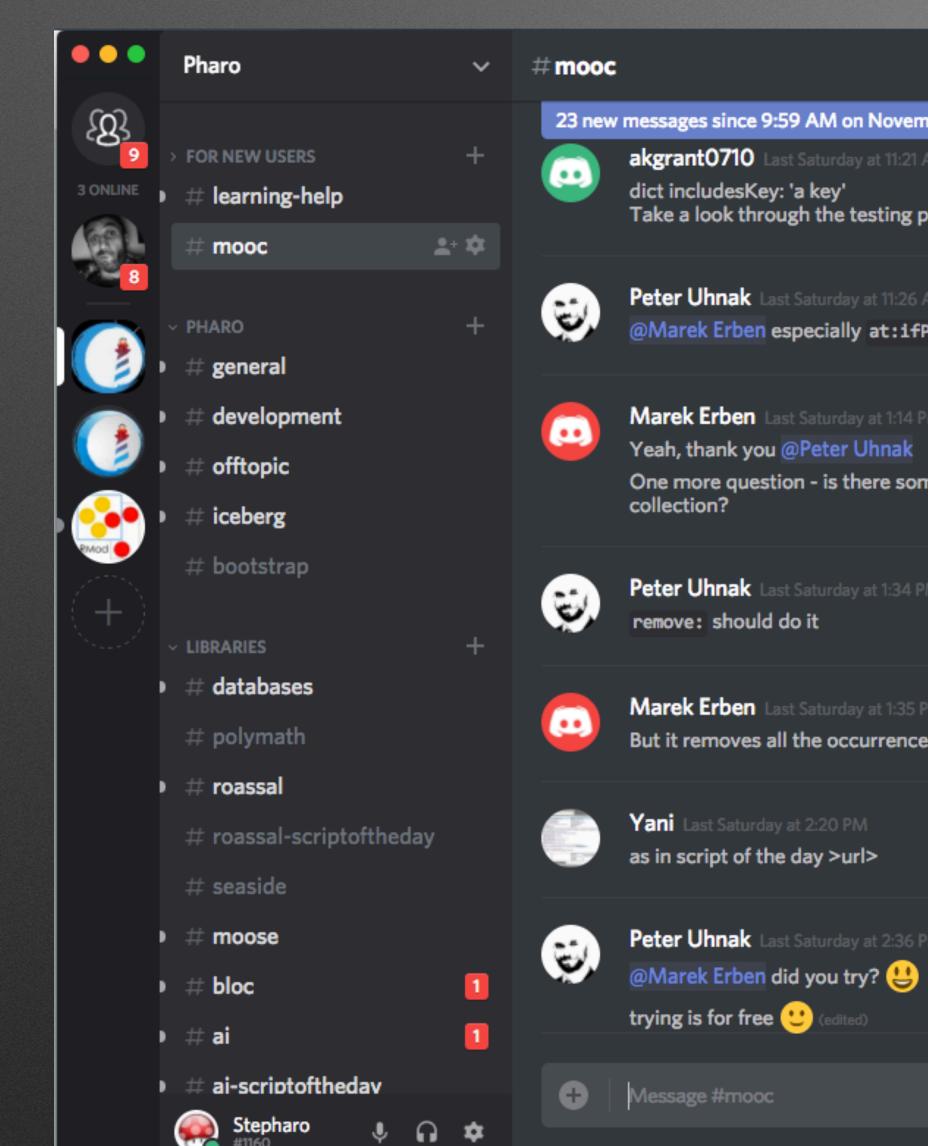
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Only objects + messages +

closures!

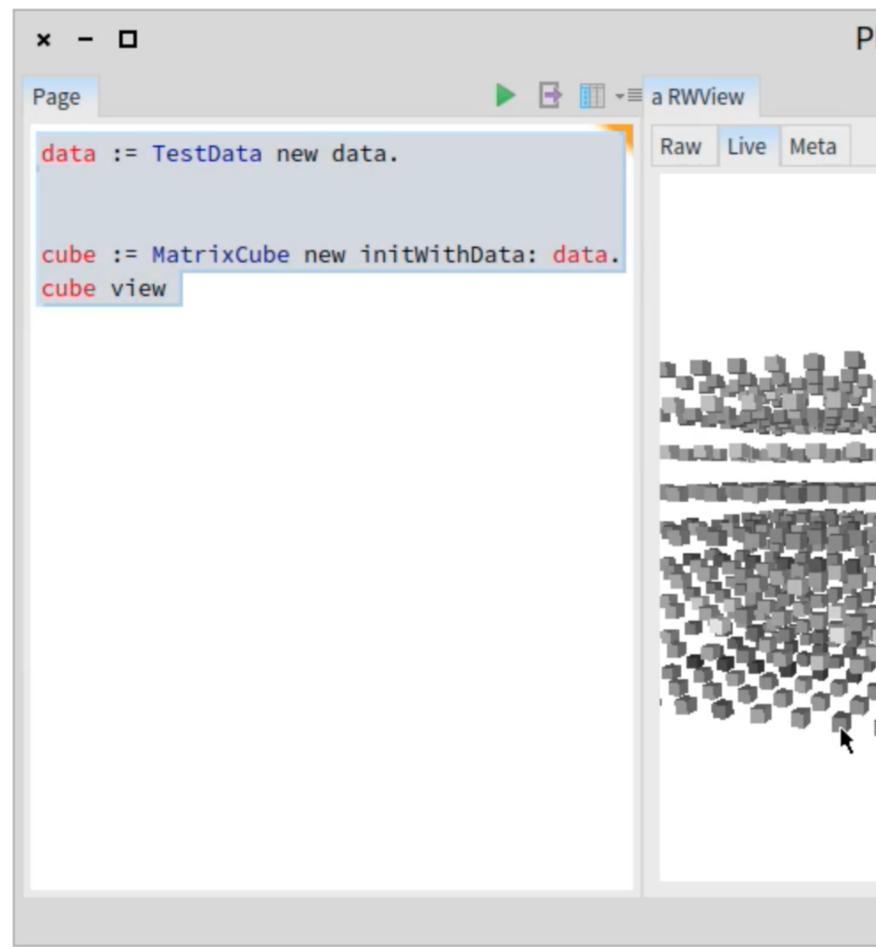
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A Pure 00 Word

Domain Driven Modeling = Focus on your domain

Amazing moldable tools

Customize object interaction/presentation to focus on YOUR domain



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Traditionally a file reference...

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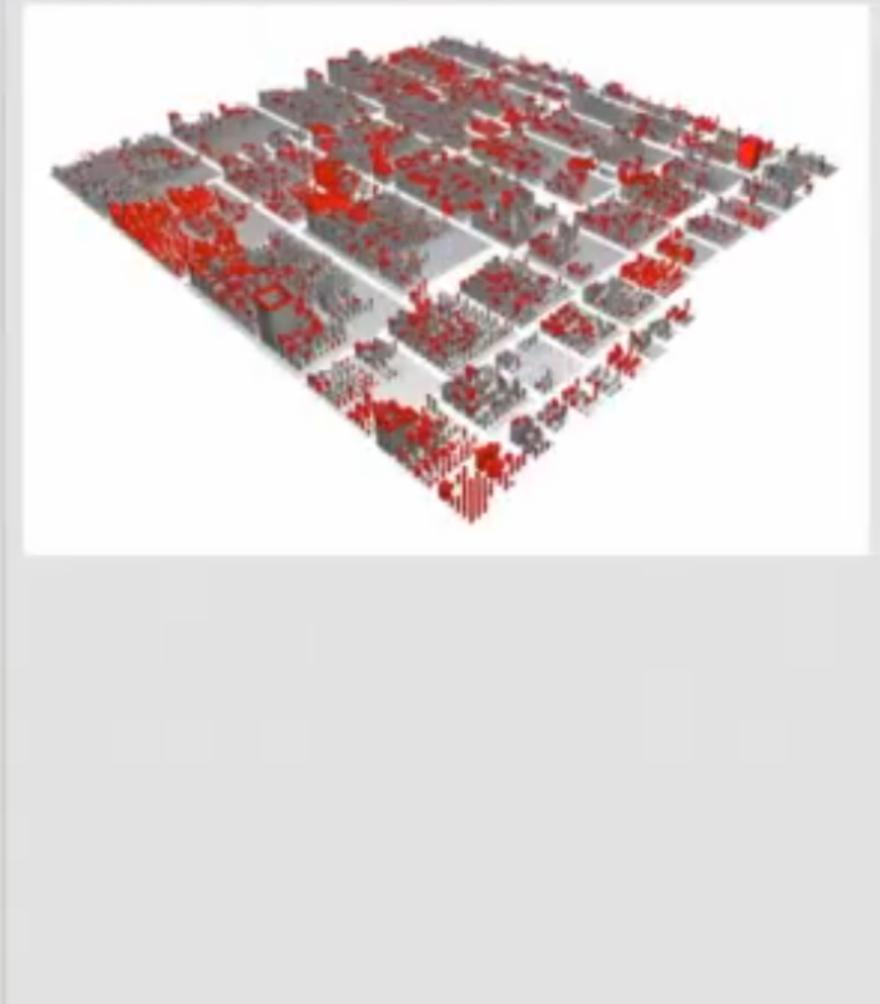
I	lten	ns	Raw Meta		
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		C	self	/Users/	d
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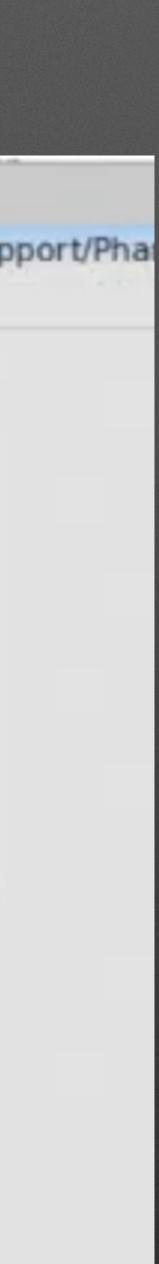
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a FileReference (/Users/ducasse/Lib	orary/Applica	tion Support/Ph	aro/images/SpurForSh.		
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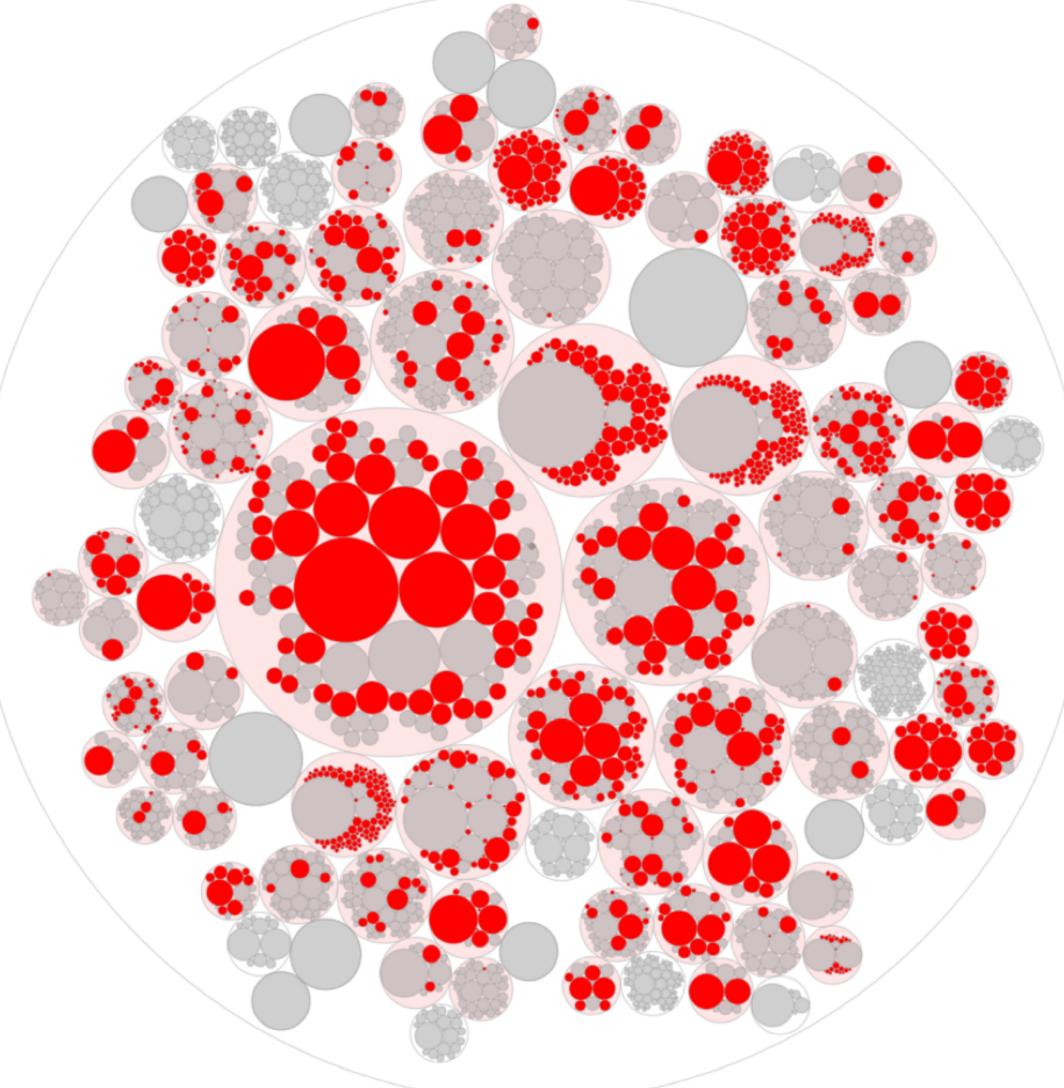
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× - • Inspe	ector c	on a DiceHandle class (DiceHandle)						
A MethodDictionary [5 item It. Ke. Raw Meta Key Value #add: DiceHa #initialize DiceHa #dices DiceHa #+ DiceHa	ns 🖉 🔍	a CompiledMethod (DiceHan A a RBAssignmentNode (RBAs * E S Ir A He Me RBMethodNode(+ anHandle RBArgumentNode(anHandle) RBSequenceNode(hn hn := RBTemporaryNode(hn) RBAssignmentNode(hn := C RBMessageNode(DiceHar RBTemporaryNode(hn) RBMessageNode(self dices RBMessageNode(self dices RBMessageNode(anHandle RBReturnNode(^ hn)						
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of specific views developed by the community



Hot update on the spot customizable debugger

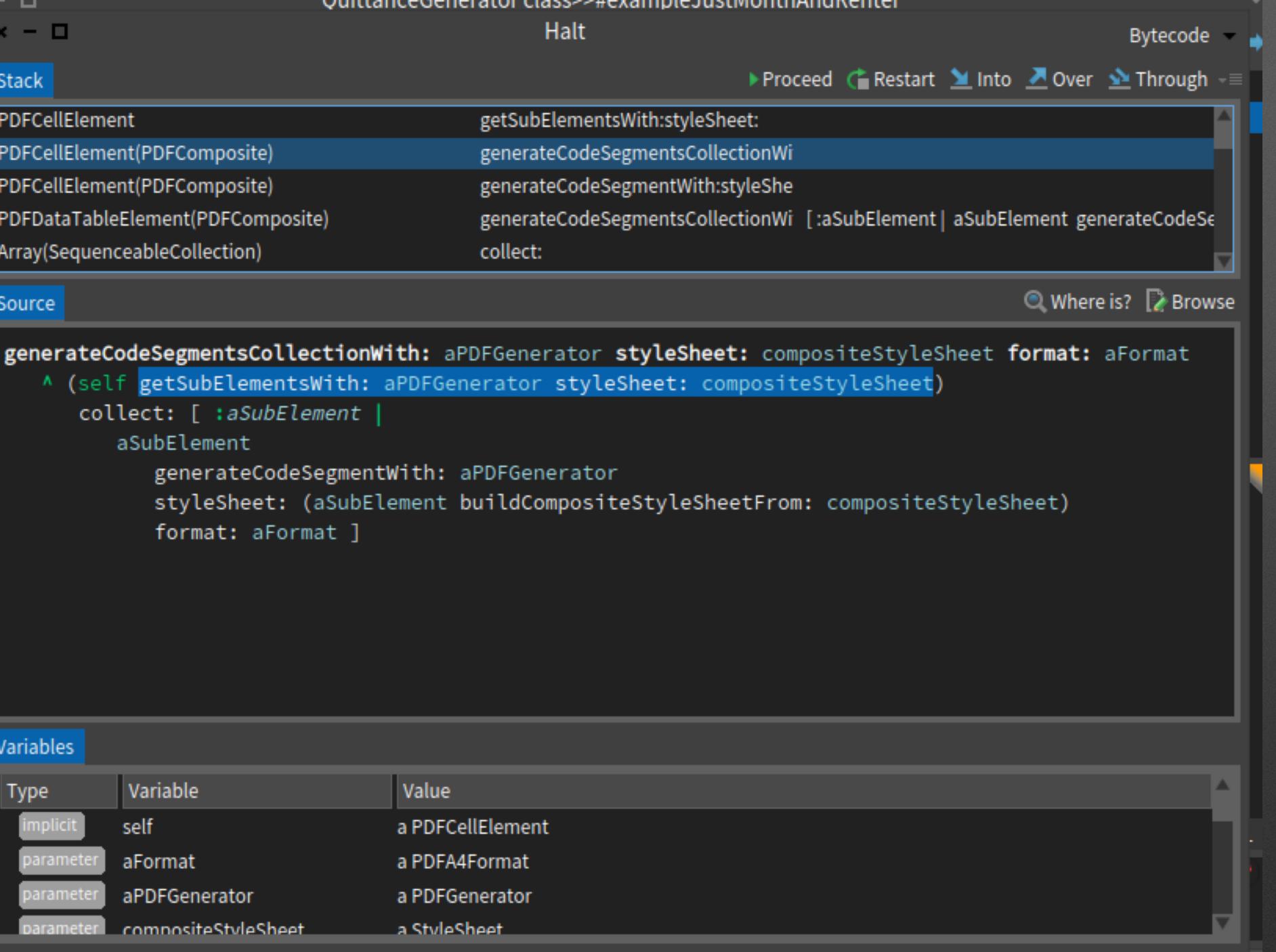
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Stack	
PDFCellElement	getSubEle
PDFCellElement(PDFComposite)	generateC
PDFCellElement(PDFComposite)	generateC
PDFDataTableElement(PDFComposit	e) generateC
Array(SequenceableCollection)	collect:

Source

A (self getSubElementsWith: aPDFGenerator styleSheet: compositeStyleSheet) collect: [:aSubElement aSubElement generateCodeSegmentWith: aPDFGenerator format: aFormat]

Variables

Туре	Variable	Value
implicit	self	a PDFCellElement
parameter	aFormat	a PDFA4Format
parameter	aPDFGenerator	a PDFGenerator
parameter	comnositeStyleSheet	a StyleSheet
	dimension: 80 mm @ 20	mm;



× – 🗆	d
Parser Stack	🔰 Through Action 🔰 Into Reduce 🔰 Next Toke
Symbol	Value
Expression ")" "{" StatementList "(" "function"	a JSUnaryExpressionNode {)(238498,238498,#(23))} {{(238499,238499,#(25))} an OrderedCollection(a JSExpressionStatementNode a JSE {((238678,238678,#(28))} {function(238679,238686,#(53 82))}
Identifieropt "(" FormalParameterListopt ")" "{" SourceElements	nil {((238687,238687,#(28))} an Array(an OrderedCollection() an OrderedCollection()) {)(238688,238688,#(23))} {{(238689,238689,#(25))} an OrderedCollection(a JSVariableStatementNode a JSVari
MemberExpression	a JSNameExpressionNode {.(274447,274447,#(38))}

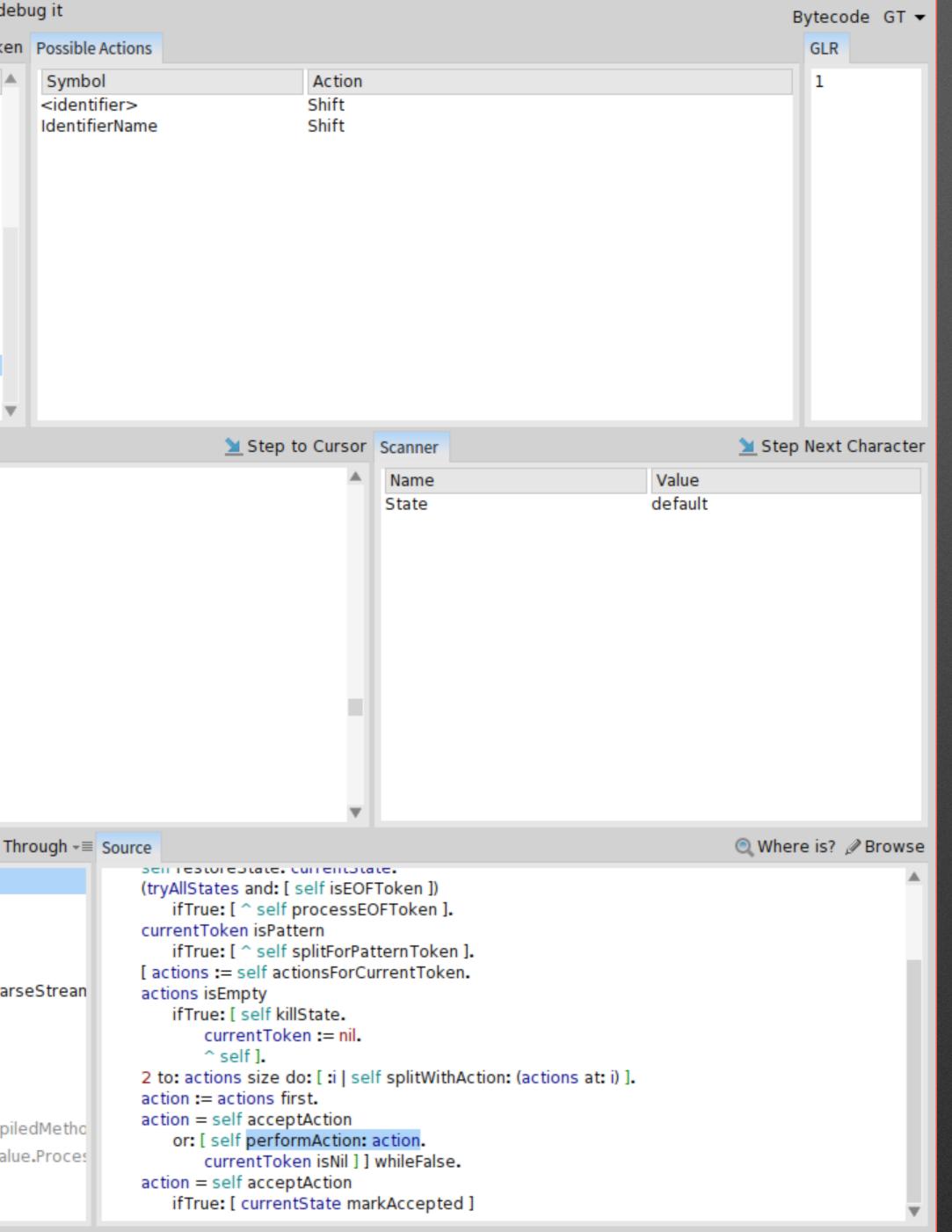
Input

```
return t._stash(this); // dojo.NodeList
}
}
inl.events = [
    // summary:
    // list of all DOM events used in NodeList
    "blur", "focus", "change", "click", "error", "keydown", "keypress",
    "keyup", "load", "mousedown", "mouseenter", "mouseleave", "mousemove",
    "mouseout", "mouseover", "mouseup", "submit"
];
```

// FIXME: pseudo-doc the above automatically generated on-event functions

// syntactic sugar for DOM events
d.forEach(nl.events, function(evt){

Stack	🕨 Proceed 🏫 Restart 놀 Into 🥕	Over 验 Thro
JSParser(SmaCCGLRParser)	performParsingStep	
JSParser(SmaCCGLRParser)	performParsingLoop	
JSParser(SmaCCParser)	parse	
JSParser class(SmaCCParser class)	parseStream:startingAt:	
JSParser class(SmaCCParser class)	parseFile:	[self parse
BlockClosure	ensure:	
JSParser class(SmaCCParser class)	parseFile:	
UndefinedObject	Dolt	
CompiledMethod	valueWithReceiver:arguments:	
RubSmalltalkEditor	debug:receiver:in:	[aCompile
BlockClosure	newProcess	[self value



Since may 2008

Pharo 7.0 - Nov 2018 ... 63 contributors - 111 Forks. Pharo 5.0 - Apr 2016 90 commiters (1600 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 6.0 Apr 2017 100 commiters (1700 issues closed)
- Pharo 4.0 Apr 2015 70 commiters (1271 issues closed...)





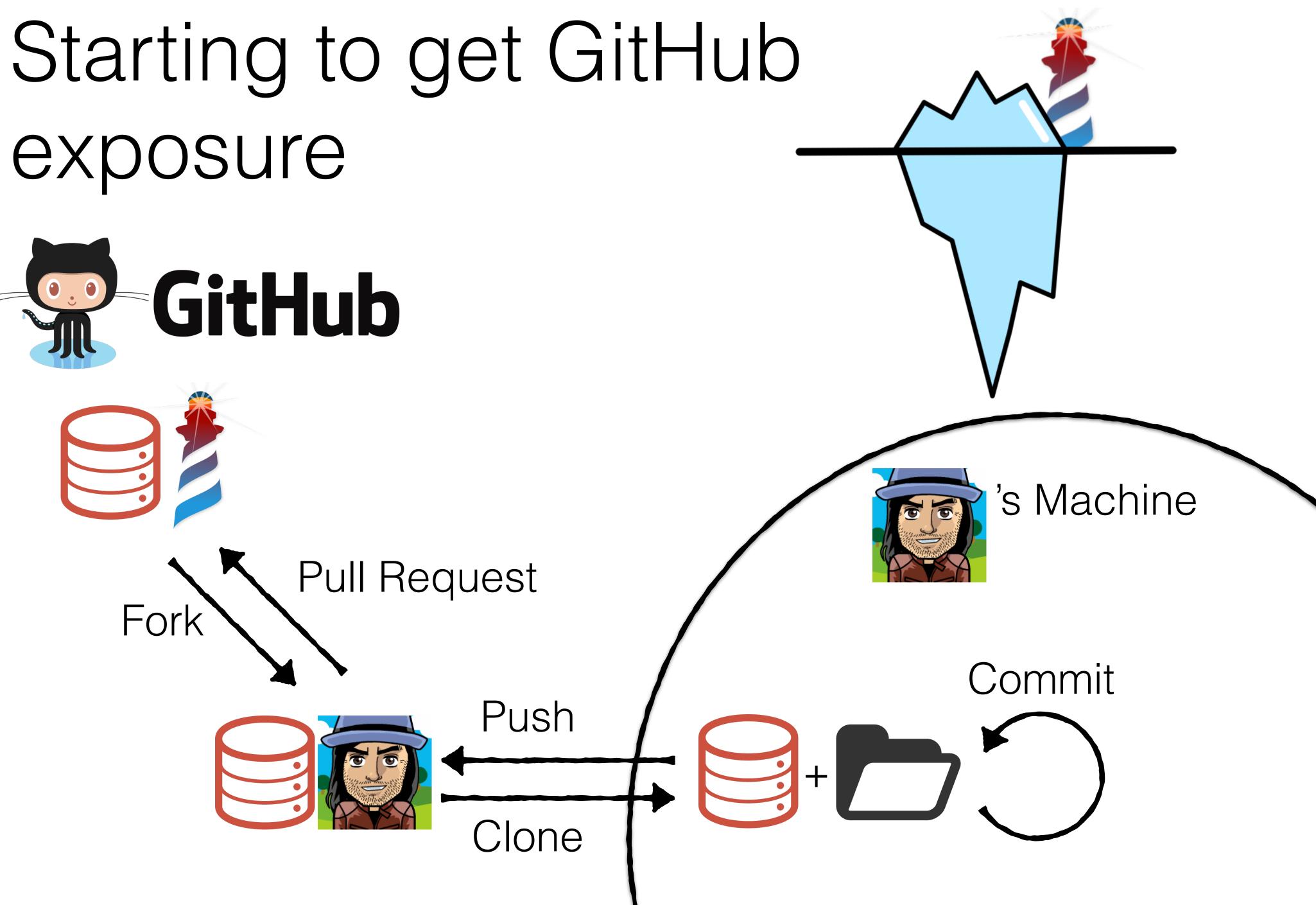
Pharo is our vehicle We improve it everyday

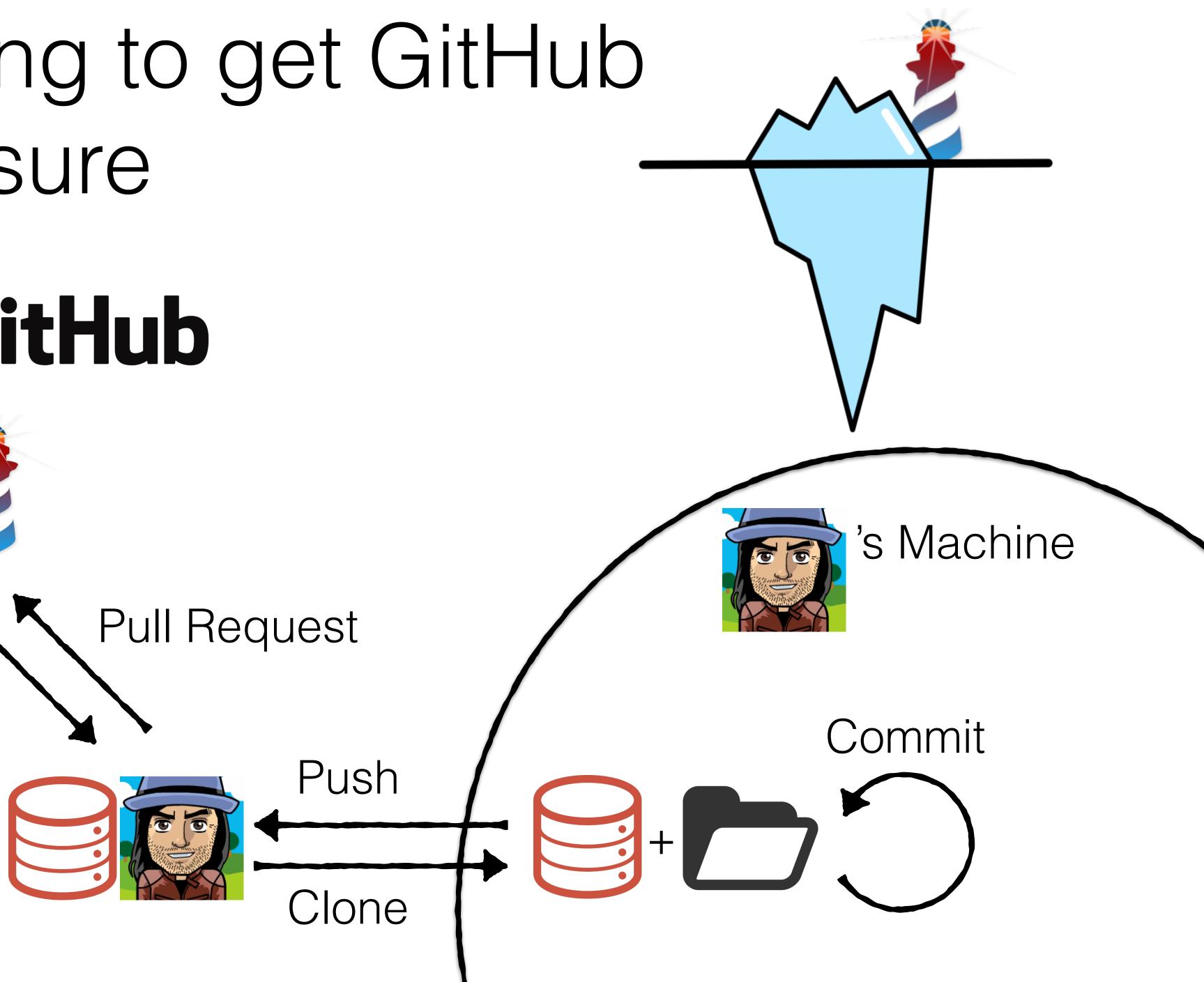
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exposure











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





Pharo

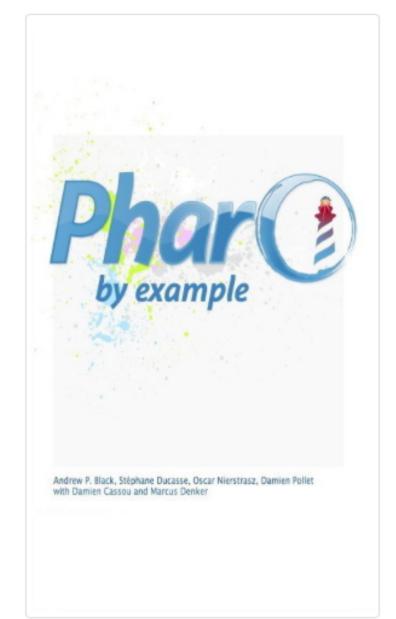
P

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 »





ALEXANDRE BERGEL - DAMIEN CASSOU STÉPHANE DUCASSE - JANNIK LAVAL

Foreword by Dave THOMAS

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

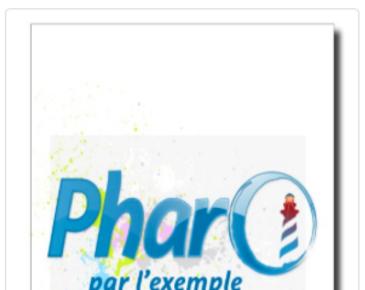


Damien Cassou Stéphane Ducasse Luc Fabresse Johan Fabry Sven Van Caekenberghe and many others



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 »







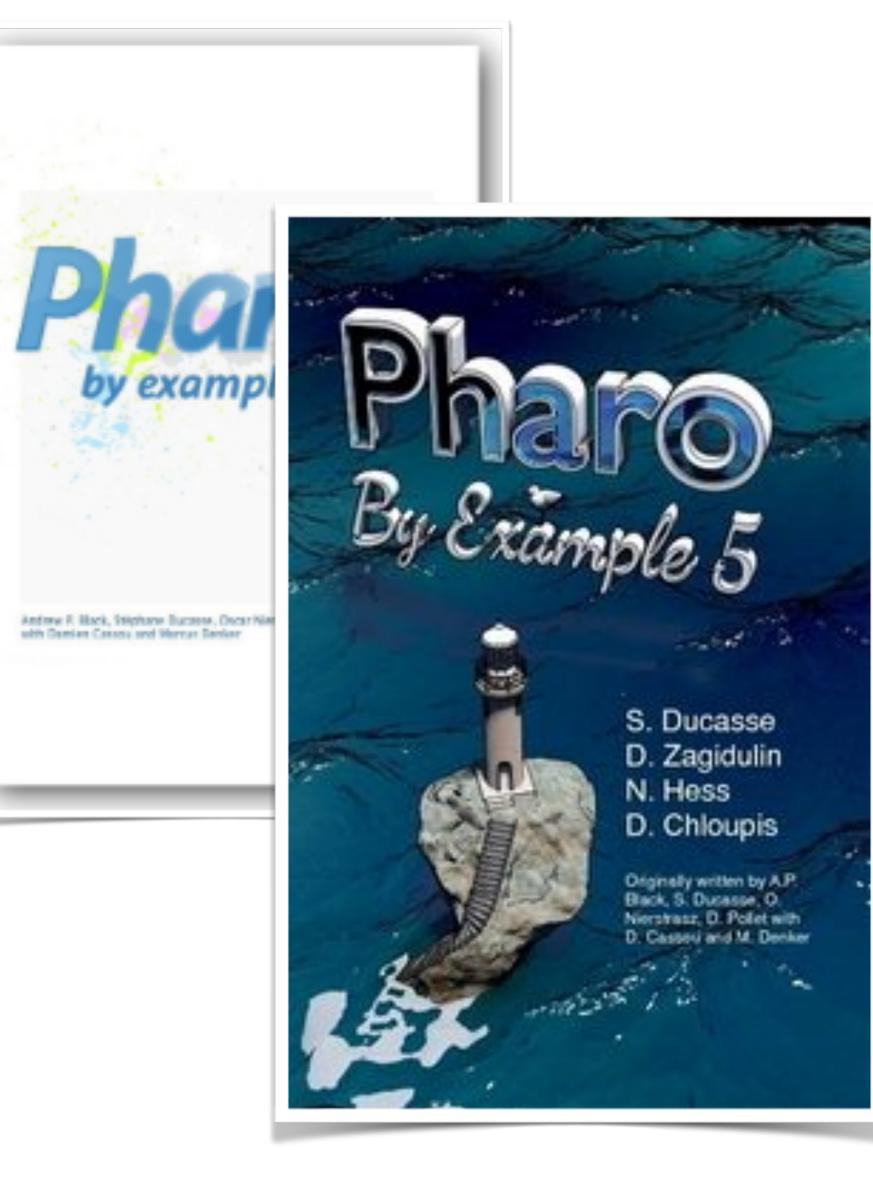
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Pharo by Example

* 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

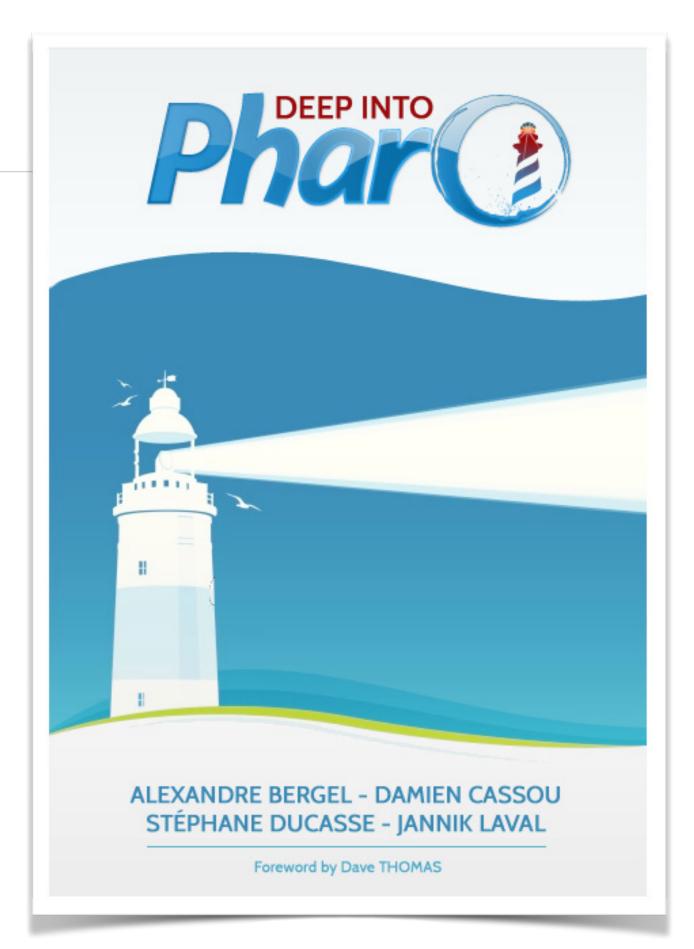
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Deep into Pharo

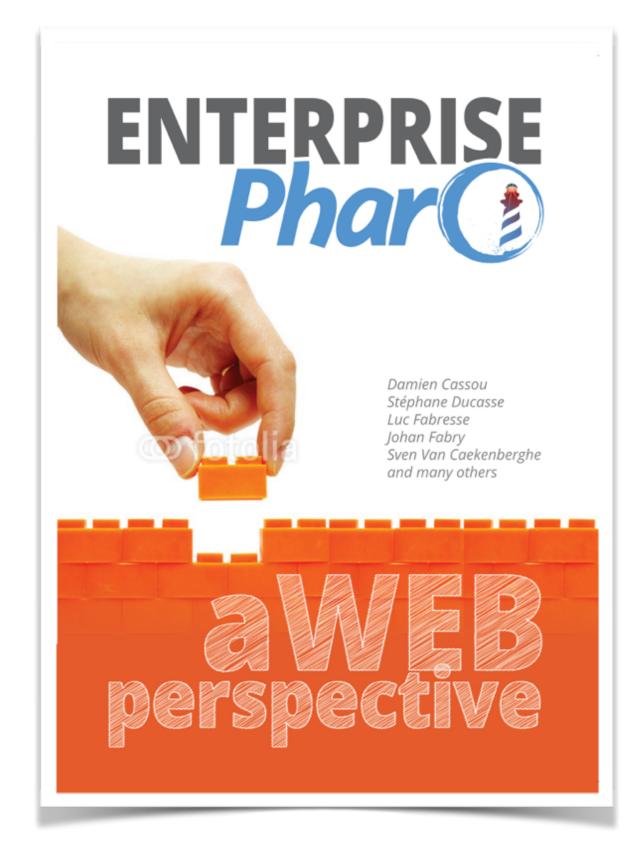
http://books.pharo.org
http://books.pharo.org
Some advanced topics
Libraries
Core language
* Tools





Entreprise Pharo

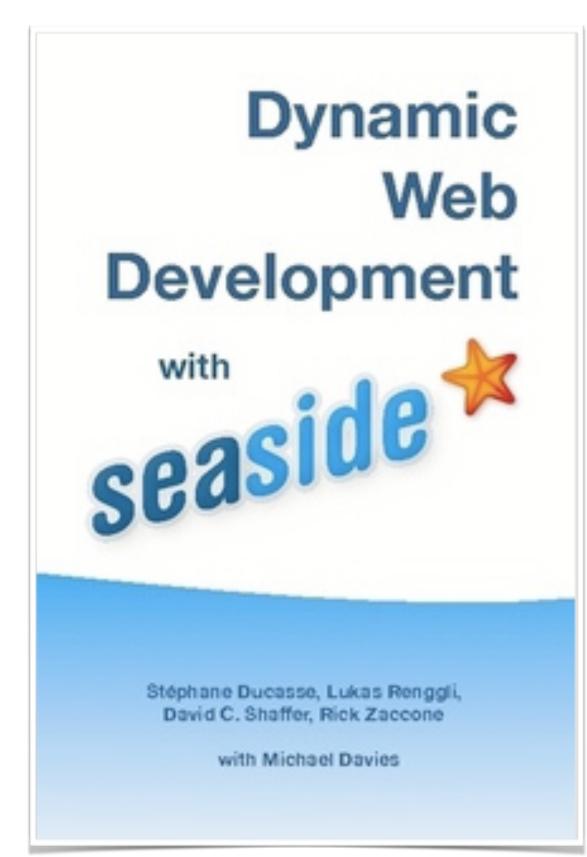
* http://books.pharo.org *Web related * Encodings, * Mustache **#JSON** *WebSockets *****HTTP/HTTPS





Dynamic Web with Seaside

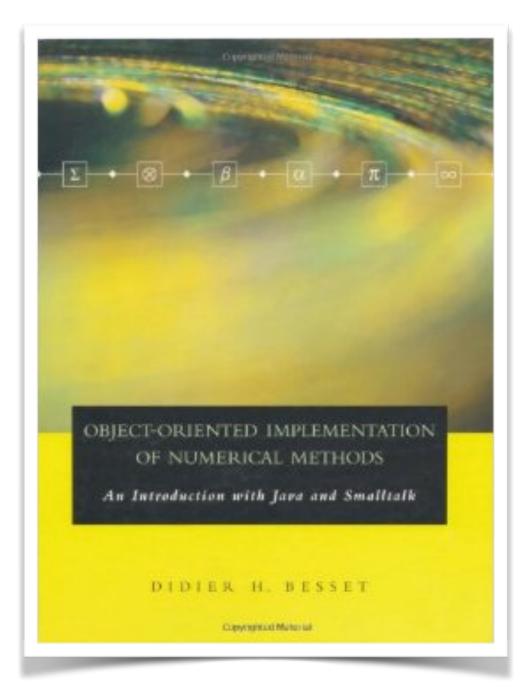
* http://book.seaside.st
* Full framework explained
* DSL + Call:/answer:
* Automatic form generation
* Deployment





Numerical Methods

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







Fun, simple Pure & elegant Productive Empowering Addictive Full access

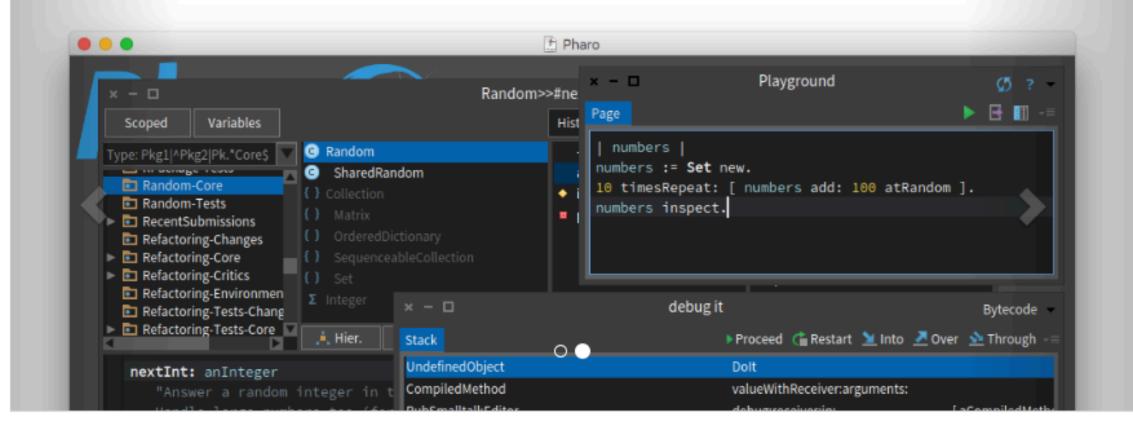
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Phar 🕑

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).



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