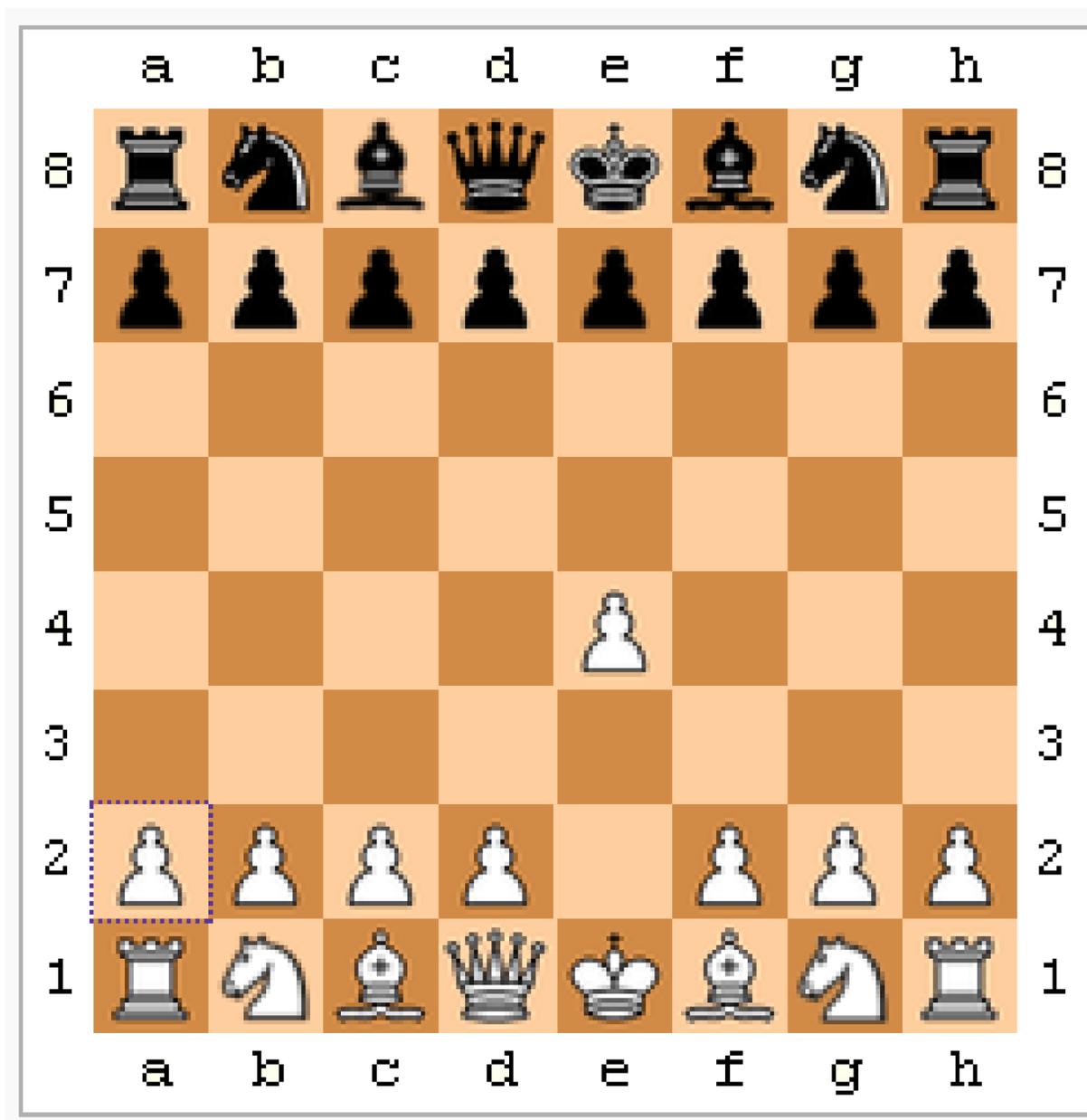


# e4 Overview

Eclipse Board Meeting, Miami, Dec 2009

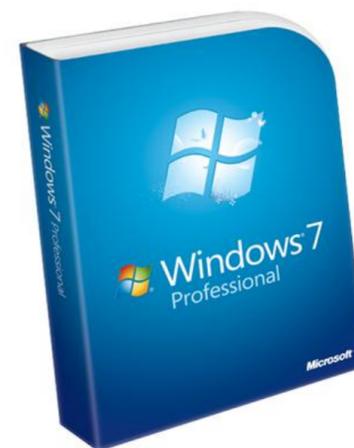
Boris Bokowski

- “Advancing the king's pawn up two squares is highly useful because it occupies a center square, attacks the center square d5, and allows the development of White's king's bishop and queen.” (Wikipedia)



# The Challenge

- Tension between Stability and Innovation
- We need to innovate to remain a viable platform



ADOBE® FLASH® PLATFORM



Microsoft®  
Silverlight™

# e4

- “The mission of the e4 project is to build a next generation platform for pervasive, component-based applications and tools.”

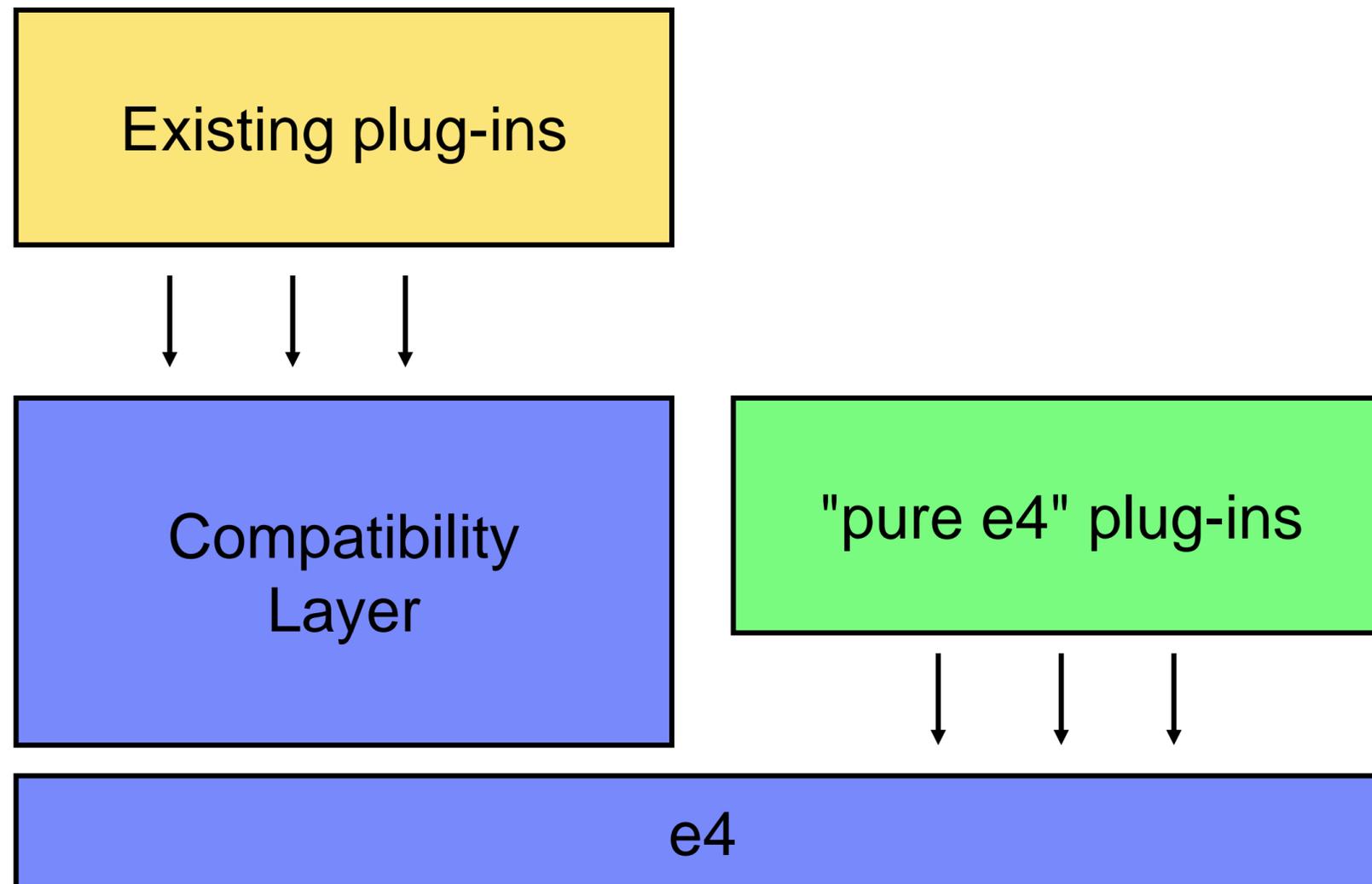
## e4 – Purpose

- Place for innovation
- Not a product
- e4 technologies will be used as the basis of Eclipse 4.0 (and some will show up in 3.x)
- Engage open source community
- Build a better Eclipse
  - Make it more flexible and easier to use
  - Prepare for web technologies

## e4 – Work Areas

- Building UI Components
  - Using HTML/JavaScript, OpenSocial
  - XWT: declarative SWT
  - Easier to use API (20% covering 80% of the cases)
- Assembling UI Components
  - Based on EMF model (modeled workbench)
  - Better control over result (filtering, sorting, etc)
  - Skinnable UI (CSS, Renderer)
  - Visual tool for assembling? (community contribution)
- Other
  - Flexible Resources (→ 3.6), JS Modularity

# Backwards Compatibility



# Releases



## Releases

No Eclipse update site has been listed.

**1.0:** 2010-07-31 planned

**0.9:** 2009-07-31 completed

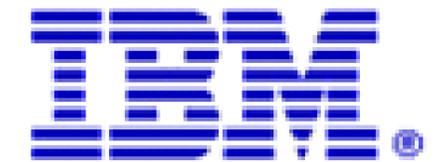
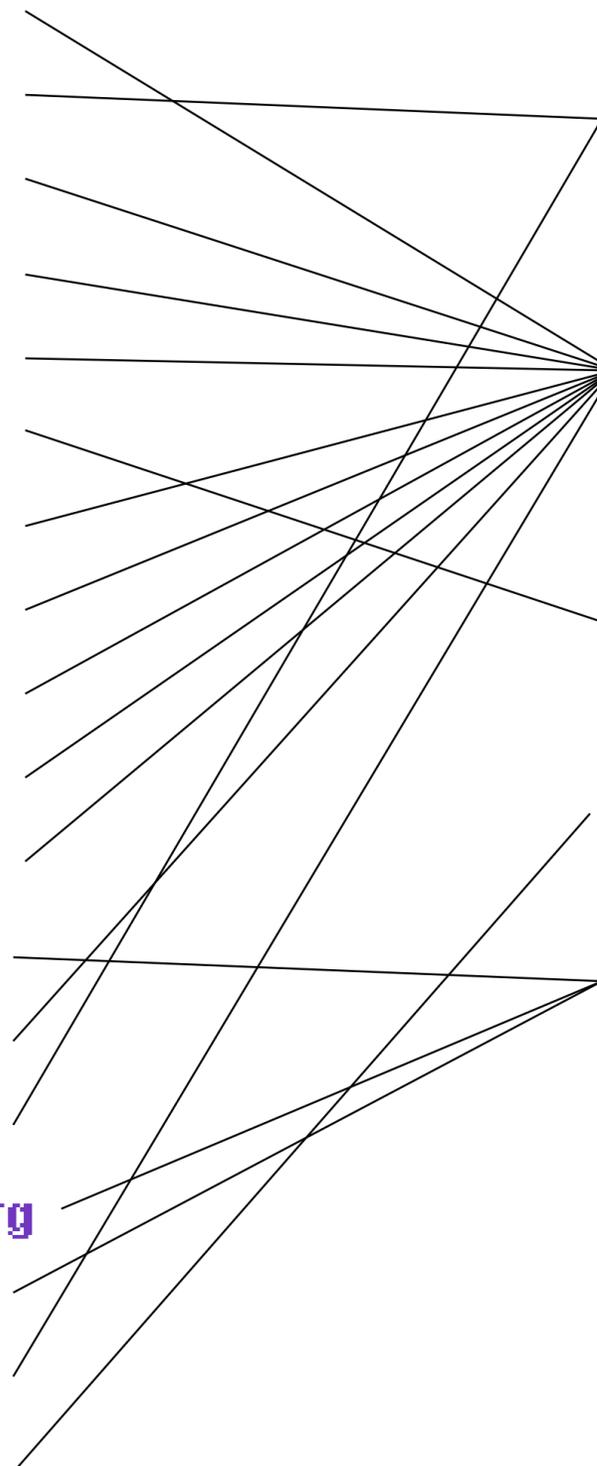
# People



## Committers

### Active:

- John Arthorne
- Serge Beauchamp
- Oleg Besedin
- Boris Bokowski
- Szymon Brandys
- Benjamin Cabe
- Bogdan Gheorghe
- Simon Kaegi
- Eric Moffatt
- Andrew Niefer
- Michael Rennie
- Thomas Schindl
- Remy Suen
- Kai Toedter
- Halvard Traetteberg
- Francis Upton IV
- Paul Webster
- Yves YANG



Independent



### Project Leadership

Project Leads

Mike Wilson



### Mentors

Mike Milinkovich

**commits by company by month**  
**for project eclipse.e4** [all projects](#)  
**for year 2009** [all years](#)

	<a href="#">01</a>	<a href="#">02</a>	<a href="#">03</a>	<a href="#">04</a>	<a href="#">05</a>	<a href="#">06</a>	<a href="#">07</a>	<a href="#">08</a>	<a href="#">09</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>
<a href="#">AnywareTechnologies</a>							87			34	16	
<a href="#">Architexa</a>					1183							
<a href="#">BedarraResearchLabs</a>			3									
<a href="#">BestSolution</a>		84	15				6		26	2	4	
<a href="#">FreescaleSemiconductor</a>	108	13	279	27	124	3	4		5			
<a href="#">IBM</a>	436	987	509	491	906	927	867	702	817	979	686	55
<a href="#">Innoopract</a>	38	6					2					
<a href="#">SiemensAG</a>					78	17	10				8	
<a href="#">Soyatec</a>	646	439	411	24	428	410	584	6		298	1056	782
<a href="#">individual</a>	202	172	171	36	604	134	208	237	26	205	4	

	<a href="#">01</a>	<a href="#">02</a>	<a href="#">03</a>	<a href="#">04</a>	<a href="#">05</a>	<a href="#">06</a>	<a href="#">07</a>	<a href="#">08</a>	<a href="#">09</a>	<a href="#">10</a>	<a href="#">11</a>
<a href="#">fuptoniv</a>	95	57	142	8	4		1	9	6		
<a href="#">htraetteb</a>					535	72		213		205	4
<a href="#">kevinm</a>	107	115	29	28	65	62	207	15	20		

# Contributions

## Contributors and Their Contributions

Bug	Size	Description
Benjamin Cabé (sierrawireless.com)		
280462	10.3K	e4 splash screen Implementation v03
Aghiles Abdesselam (ca.ibm.com)		
263184	1.0K	[CSS] Need Shell:active pseudo class fix in the junit test
265214	41.4K	[CSS] Summary bug for Cascading Rule Tests and CTabFolder Properties CSS Properties and JUnits
265232	17.4K	[CSS] CTabFolder extended properties are missing retrieveCSSProperty() retrieveCSSProperty() does not only return null & junit test
266028	11.8K	[CSS] Property retrieval must check instanceof and return null instanceof check and will return null when appropriate
266146	2.8K	[CSS] JUnit for: Property retrieval must check instanceof and return null junit test for retrieveCSSProperty()
266804	14.2K	[CSS] borderVisible VS border-visible properties and junits updated
266970	11.0K	[CSS] Widget.setData keys should be qualified qualified updated
271531	8.1K	[CSS] Button styleable properties Label and Button now have alignment stylable property
Angelo (gmail.com)		
256844	269.9K	[CSS] TK-UI CSS engine for Nebula widget TK-UI CSS engine Eclipse project for Nebula widget
James Blackburn (gmail.com)		
266662	698	Assertion Failed Exception in ProjectPathVariableManager patch1
266712	574	ctrl-drag folder to create linked resource and groups fails if directory already contains linked resources Patch 1
266712	1.3K	ctrl-drag folder to create linked resource and groups fails if directory already contains linked resources Test1
267201	3.7K	Resource filters problems with aliases Test1
268507	3.1K	Changing a linkLocation using #setLinkLocation doesn't automatically update child resources Test 1
268518	12.4K	Filtered Resorces problems Illegal Argument Exception during project open, issues with filtered resource appearing Test 1
Philipp Kursawe (gmail.com)		
284319	9.5K	Remove empty Activators and replace Activator.ID Strings with dynamic Bundle symbolic name Initial patch for UI & core bundles
Scott Lewis (composent.com)		
253777	16.9K	support asynchronous programming patterns IFuture, jobs patch, test code in zip

# New Third-Party Dependencies

## Third-Party Code

CQ	Third-Party Code	License
2852	Apache Batik Version: 1.6 **See Comments 6&7 re CSS SAC API (using Orbit CQ2070)	Apache License, 2.0
3530	Mozilla Rhino Version: 1.7 R2	New BSD license, Mozilla Public License 1.1 (MPL)
3390	dojo Version: 1.1.0 (*Subset) (PB CQ2026)	Academic Free License OR BSD (Dual - we choose BSD), BSD alone, MIT, Unicode, Apache 2.0
3442	Mozilla Rhino Version: 1.6R6 (**excluding proprietary files grabbed during build) (PB CQ2175)	Mozilla Public License 1.1 (MPL)
3443	Apache Jakarta Commons BeanUtils Version: 1.7 (excludes dependent libs) (PB CQ1905)	Apache License, 2.0
3555	atinject (Package javax.inject) Version: 1.0	Apache License, 2.0
3556	atinject (TCK) Version: 1.0	Apache License, 2.0
3596	Firebug 1.5x.0b3	New BSD license
3625	Icon Set: Fam Fam Silk Icon Set Version 1.3 (using Orbit CQ2019)	Creative Commons Attribution License 2.5

*No pre-req dependencies*

## Pending Contribution Questionnaires

CQ	Third-Party Code	License	Use
3626	org.pushingpixels.trident Version: 1.2.0	New BSD license	unmodified source & binary

# What's next

- “Eclipse SDK R4.0” to be delivered July 2010
- Goals
  - All SDK R3.6 plug-ins hosted and running
  - Ready for wider consumption
- But(!) this is the first release of a significantly new codebase
  - It will not be on the Helios release train
    - Early adopters in community will be moving
  - Need significant real-world testing
    - Help us make the compatibility bulletproof
- Expect to be on 2011 release train
  - Requirement: All other release train projects run

# Further reading

- “Eclipse has a future.”
  - <http://dev.eclipse.org/blogs/mcqjustmcq/2009/07/25/eclipse-has-a-future/>
- “White Paper: e4 Technical Overview”
  - <http://eclipse.org/e4/resources/e4-whitepaper.php>
- Websites:
  - e4 Wiki -- <http://wiki.eclipse.org/E4>
  - e4 Homepage -- <http://eclipse.org/e4>

Comments?  
Questions?