

Home Office 2.0 - Collaborate Working It's all about context

Wintersemester 2009/2010 HAW-Hamburg Karsten Panier

Summary

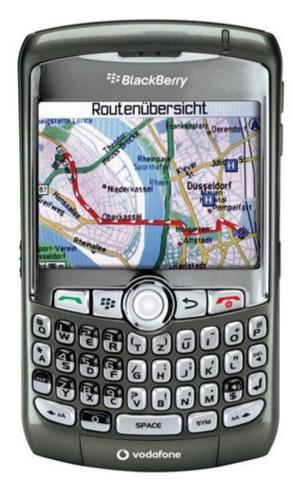


- Home Office 2.0
- Vision
- Universe of discourse
- Smart Collaborative Workplace
- Context
 - Computer based context
 - Context examples
- Problems
- Related Computer Science discussion
- Next steps

Work changed







Home Office 2.0



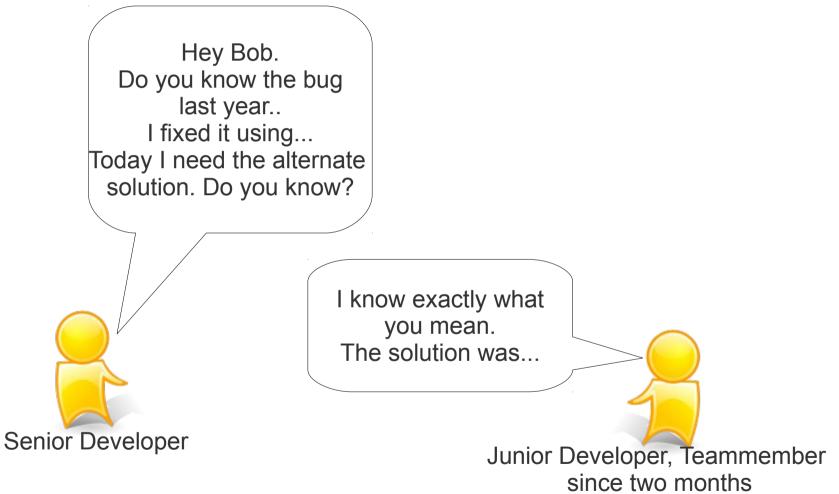
Information is available 24/7

Work today involves:

- No geographical boundaries
- No time zones
- Multiple projects
- Multiple roles / specialisations
- Multiple culture and languages

Vision







Universe of discourse

- Software Development
 - Distributed teams
 - Multiple projects
 - Multiple roles
 - Application lifecycle management
- Collaborative Work
- Knowledge Work

Knowledge Work

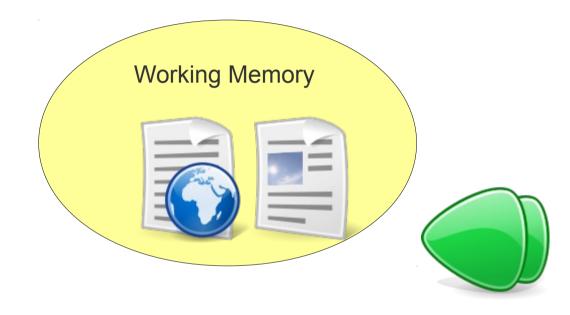


Definition by Encyclopaedia Britannica:

...of work in an information society involves manipulating abstract information and knowledge, rather than directly processing, manufacturing, or delivering tangible materials. Such work is called **knowledge work**. [BRITANNICA]

Knowledge work







Knowledge work

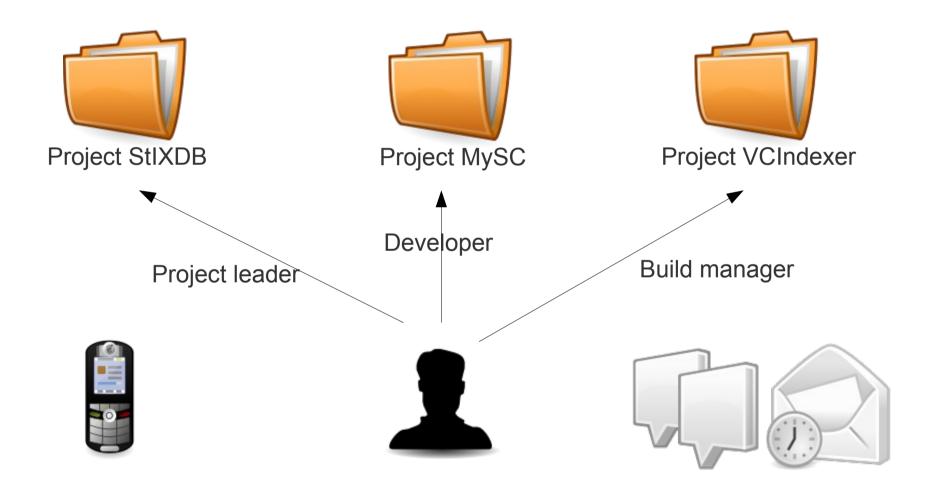






Knowledge work





Knowledge Work Problems



- Switching between Task/Projects (costs 20%-40% of time concentration) [UMICH]
- Information overload
- Distractions
- Stressed out
 - => cognitive overload [Kirsch-2000]



Smart Collaborative Workplace

- Support Current Worktask
 - Show only relevant information
 - Assist information retrieval
 - Manage applications
- Support task switch
- Support different devices
- Find the person who I need [Maehlmann-2009]
- Support team work (different experts need different tools/informations)



"Always consider the Context" Andy Hunt [Hunt-2008]

"Focusing knowledge work with task context" Mik Kersten [Kersten-2007]

Its all about context

What is Context



- Language sciences
 - verbal context
 - social context
- Working set of information for the current situation
- Context defines the meaning of information



Computer based context

- System context
- Context awareness
- Dialog context
 - Speech engine
 - Topic map
- Task context
- Location





Using context for messages

Found at eXtreme feedbacks [XF]



Context based information retrival



jira Idap java.lang.reflect.InvocationTargetException

Erweiterte Such Suche Einstellungen

Suche: O Das Web O Seiten auf Deutsch O Seiten aus Deutschland

Verentwertlicher Tester	Denier Kereter	Web	Ergebnisse 1 - 10 von ungefähr 362 für jira Idap java.lang.reflect.lnv
Verantwortlicher Tester:	Panier Karsten		
Letzte Änderung durch:	Panier, Karsten	Jira LDAP User Utility - JIRA Ex	tensions - Atlassian Documentation [Diese Seite übersetzen]
			s no further configurations as long as the Now i've
		got this error: java.lang.reflect.invoca	ationtargetexception
Beschreibung			Jira+LDAP+User+Utility - Im Cache - Ähnlich
Das Plugin in um Benutzer aus dem LDAP in JIra		[#DIRSTUDI0-475] Error java la	ng.reflect.InvocationTargetException [Diese Seite übersetzen]
Es sieht danach aus, dass es nicht mit der Versio Stacktrace:		· · · · ·	rgetException with IPv6 Addresses When creating a
Slatkilate.			Pv6-Address gives a "java.lang.reflect If so please
java.lang.reflect.InvocationTargetException		just reopen this Jira . Regards, Stefan	
at sun.reflect.NativeMethodAccessorImpl.invoke0(issues.apache.org/jira/browse/DIRSTU	
at sun.reflect.NativeMethodAccessorImpl.invoke(N			
at sun.reflect.DelegatingMethodAccessorImpl.invo		[#WCM-189] Virtualization Error	related to LDAP Authentication [Diese Seite übersetzen]
at java.lang.reflect.Method.invoke(Method.java:615		retrying java.lang.reflect.InvocationTargetException at sun.reflect Powered by a free	
at webwork.util.InjectionUtils\$DefaultInjectionImpl at webwork.util.InjectionUtils.invoke(InjectionUtils.		Atlassian JIRA open source license for	r Alfresco
at webwork.action.ActionSupport.invokeCommand		https://issues.alfresco.com/browse/W0	CM-189 - <u>Im Cache</u> - <u>Ähnlich</u>
at webwork.action.ActionSupport.execute(ActionSu			
at com.atlassian.jira.action.JiraActionSupport.exec		Release Notes - xplanner - Versi	on 0.8b4 - HTML format - jira [Diese Seite übersetzen]
		[XPR-224] - " java .sql.SQLException: No operations" error after application [<a< td=""></a<>	
			(PR-389'>XPR-389] - LDAP mis-entry triggers
		java.lang.reflect.lnvocationTargetE	
		jira.codehaus.org/secure/ReleaseNote	.jspa? <u>Im Cache</u> - <u>Ahnlich</u>

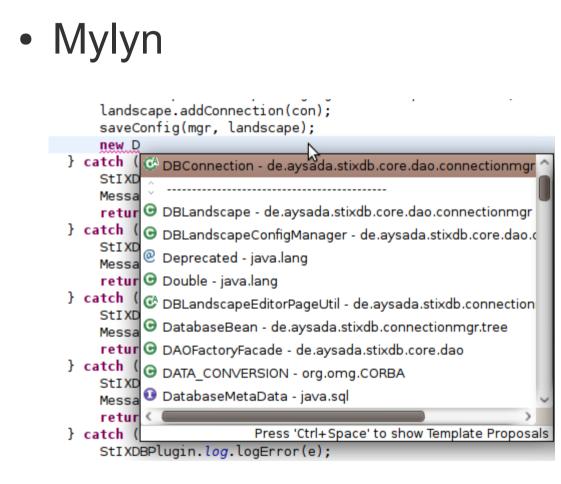
[jira] Commented: (DIRSTUDIO-475) Error java.lang.: msg#00349 dev ... - [Diese Seite übersetzen]

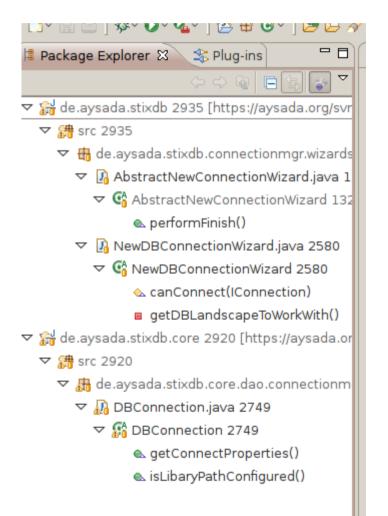
When creating a Connection to a LDAP-Server with an IPv6-Address gives a > "java .lang.reflect.InvocationTargetException"-Error-Message when doing "Check ... osdir.com/ml/dev-directory...03/msq00349.html - Im Cache - Ähnlich



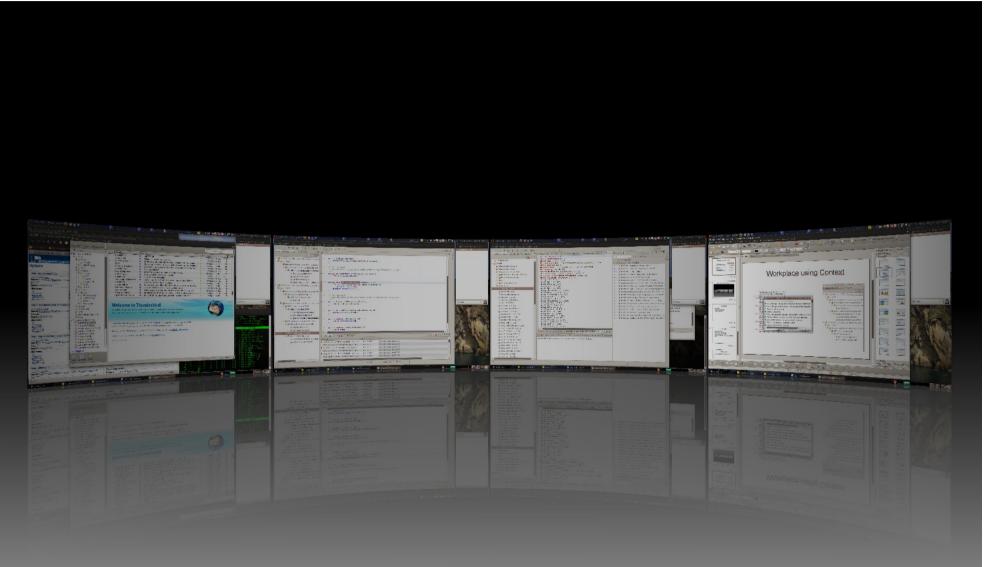














Context-Aware, Adaptive Information Retrieval for Investigative Tasks [Zhen-2007]

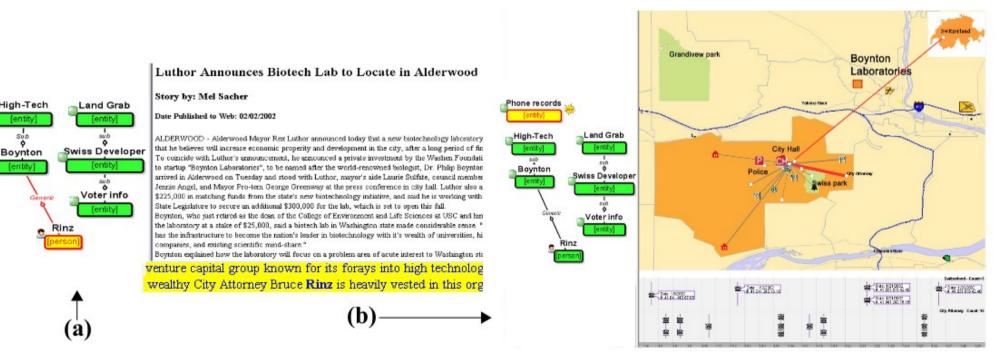


Figure 1. HARVEST screen shots showing the investigation of an alleged political fraud: (a) a news story found in the current context about a person named Rinz; (b) a set of phone calls relevant to the current context.

Problems



- Isolated solutions:
 - Tool
 - Domain specific
 - Single user
 - Work process
- Building the context
- Does it match to the context (false / positive)
- Context changes
 - Over time
 - Different use cases

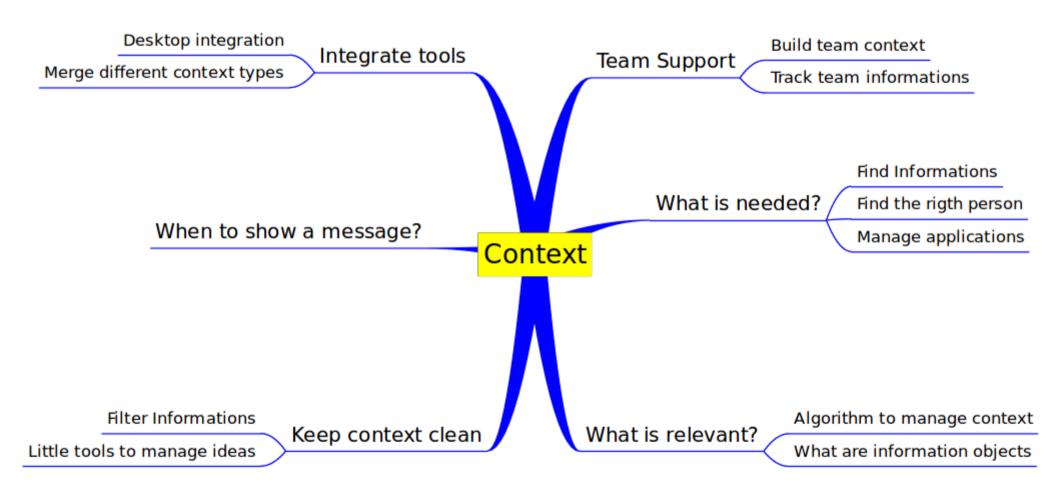
Related Computer Science discussion



- Context
 - World of N-Tuples
 - Feature Vector
 - Context Visualization
- Information Organisation (Exocortex)
- Application Lifecycle Management
- Computer Supported Cooperative Work
- Mining User Interaction
- Information Retrieval
- Self Adaptive Software

Next steps

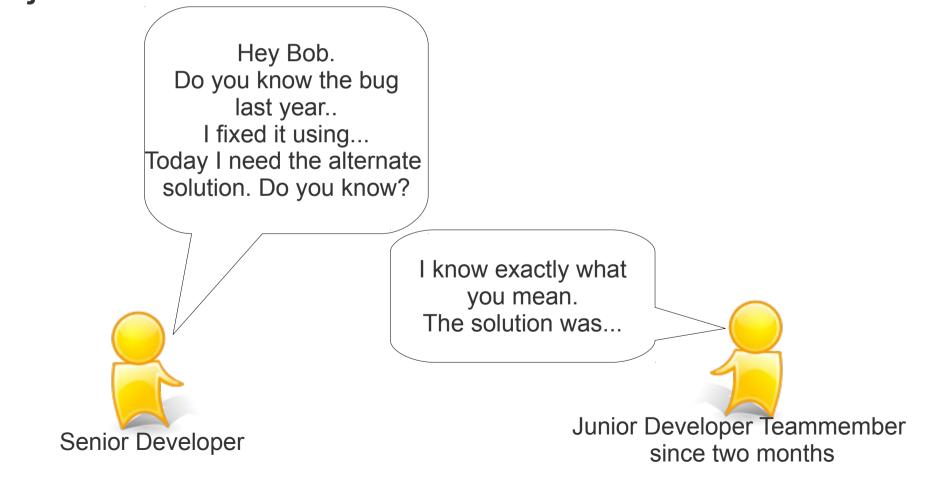




Scenario Brook's Law [Brooks-1978]



Make it easy to add developer to a delayed project



References



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- [XF]

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- [Zhen-2007]
 - Wen, Zhen and Zhou, Michelle X. and Aggarwal, Vikram
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