NTU SDM EDUCATION

Clement Su / 蘇志文 Jim Yu / 游景麟 Jeffrey Liu / 劉智雄

THINGS WE WILL SHARE.



Experience



Tools



Design Patterns

Week I - 9/30

Rational Team Concert Concept Design Document Web Application Development

AGENDA

Week 2 - 10/14

Rational Software Architect Design Patterns - Creational Patterns

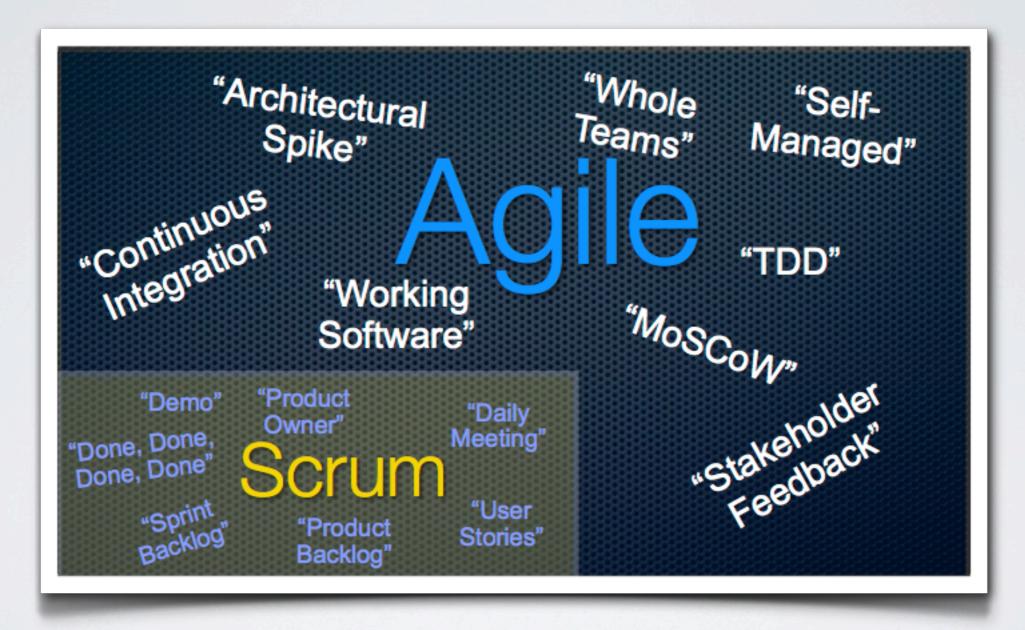
Week 3 - 10/21

Design Patterns - Structural Patterns

Week 4 - 10/28

Design Patterns - Behavioral Patterns

AGILE DEVELOPMENT



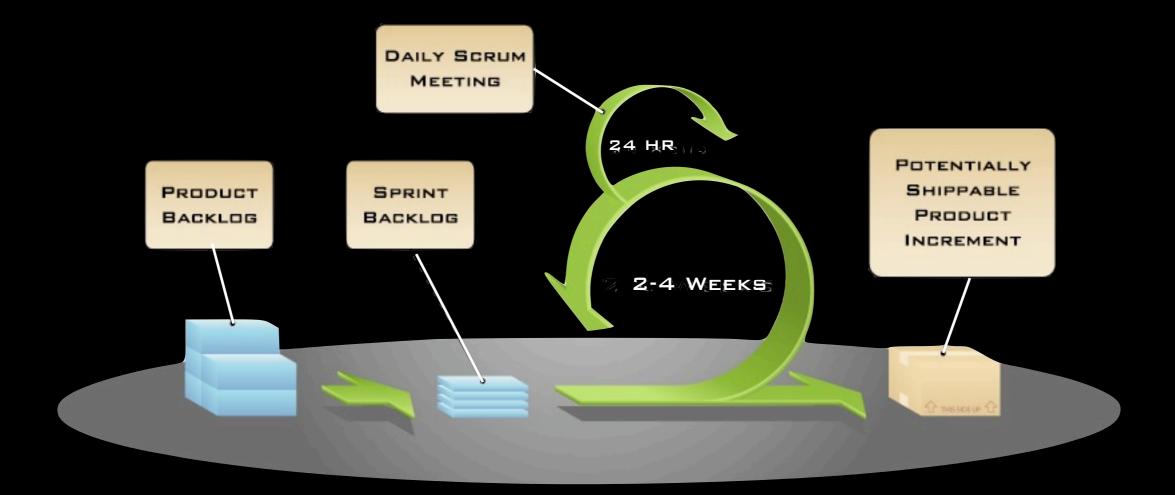
RTC SHARING

What is scrum?



The scrum is a pushing contest between two teams of eight players. The ball is fed in from the side by the scrumhalf and the team that drives their opponent backwards and hooks the ball out past the last foot of their own scrum wins posession. A scrum down is used to restart play after certain infractions such as a "knock on" or a forward pass.

http://www.oberlin.edu/stuorg/womrugby



ROLES CEREMONIES ARTIFACTS

PRODUCT OWNER

SCRUM MASTER

TEAM MEMBER

Sprint Planning

SPRINT REVIEW

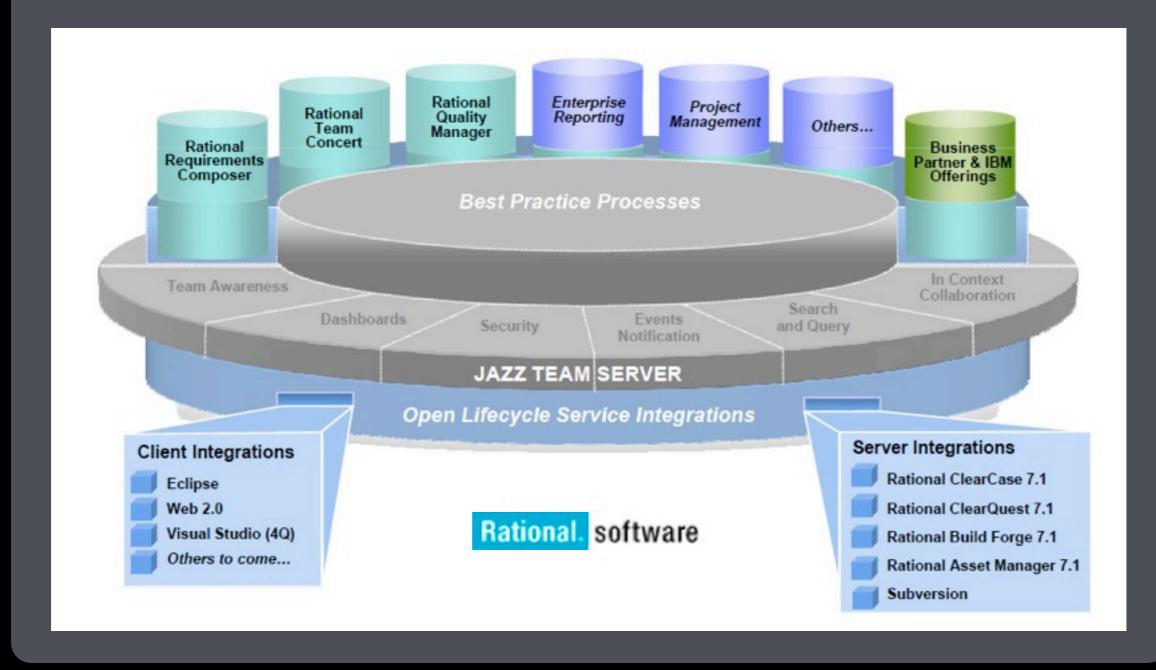
Sprint retrospective

DAILY SCRUM

PRODUCT BACKLOG

Sprint Backlog

Jazz Architecture







Profile

Availability

Preference

Thursday, September 30, 2010





Team Members Development Line Process





Teams

Release



Thursday, September 30, 2010

Process

Naming	Product Backlog, Sprint
Roles	Scrum Master, Product Owner
Permissions	Only Scrum Mater Can create iteration plan
Precondition	All code must be code reviewed before checkin
Follow up	When bug fixed, QA will be notified to verify the fix

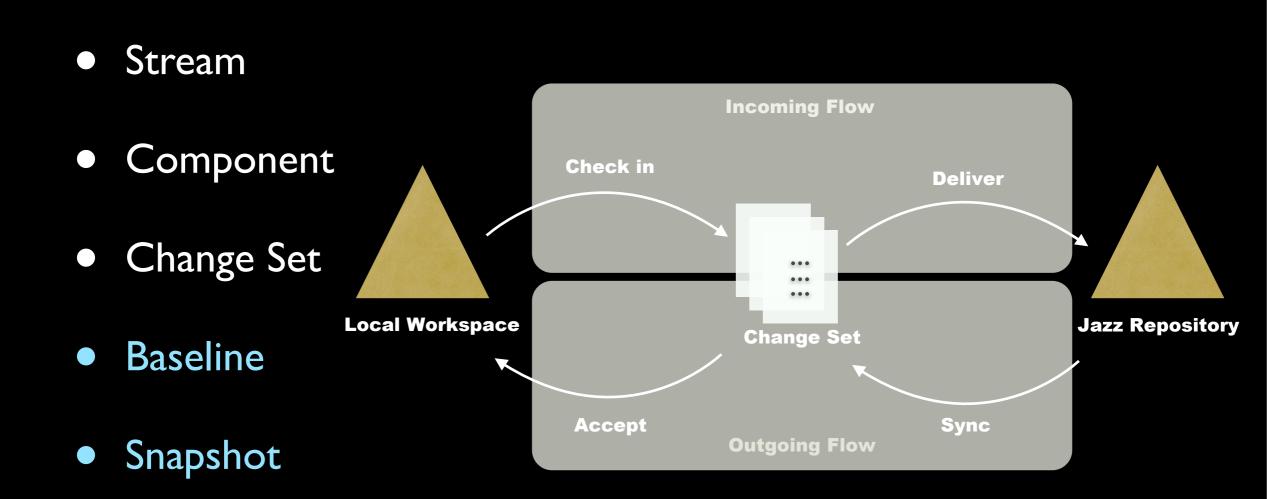


WORK ITEM

- Each Work item will be associated with an **estimate**
- Along with team member's available resource, the progress and loading of each individual/team/iteration plan could be transparently tracked
- Supported notification mechanisms : mails , event views, RSS , pop-up

🚥 4.4 m1 Apr 19, 2008	8 - May 19, 2008	3						
Name	Team Area	Progress						
JUnit Plan	JUnit Team	79 / 79 - h	No Open Work Estimated			0%		
🚥 4.4 m2 May 19, 200	8 - Jun 18, 200	B						
Name	Team Area	Progress						
JUnit Plan	JUnit Team	13 / 186 -47 h				75%		
🚥 4.4 May 19, 2008 - n	etch hne or							
Name	Team Area	Progress		+	P	Bill Cassavelli Closed Items: 8 Open Items: 0	Progress: 25 / 25 - h	Estimated: -
JUnit Release Plan	JUnit Team	0 / 0 h		•		Jason Mitchell Closed Items: 1 Open Items: 0	Progress: 0 / 0 - h	Estimated: -
				•	P	Markus Kent	No Open Work	Estimated
	JUnit Team	0 / 0 /				Closed Items: 13 Open Items: 1	Progress: 54 / 54 - h	Estimated: 0%
					1	Markus Kent Closed Items: 13 Open Items: 1	No Open Work Estimated Progress: 54 / 54 - h Estimated: 0%	

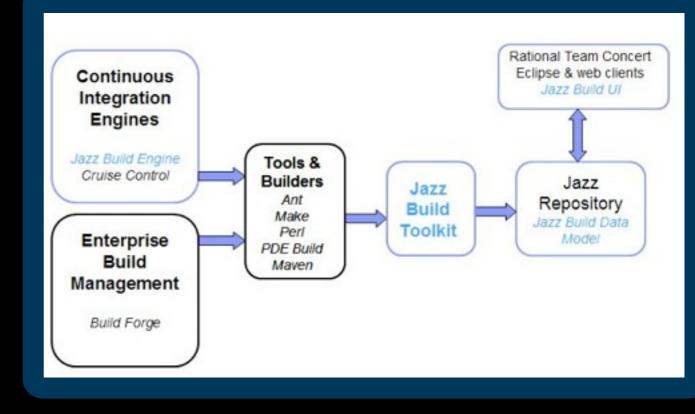
VERSION CONTROL



CONTINUOUS INTEGRATION

- Build Scheduling
- Build Progress monitoring
- Build Alert
- Build Result Viewing
- Regression Testing
- Coverage Testing
- Linkage with other artifacts
 - •Work items
 - Change Sets

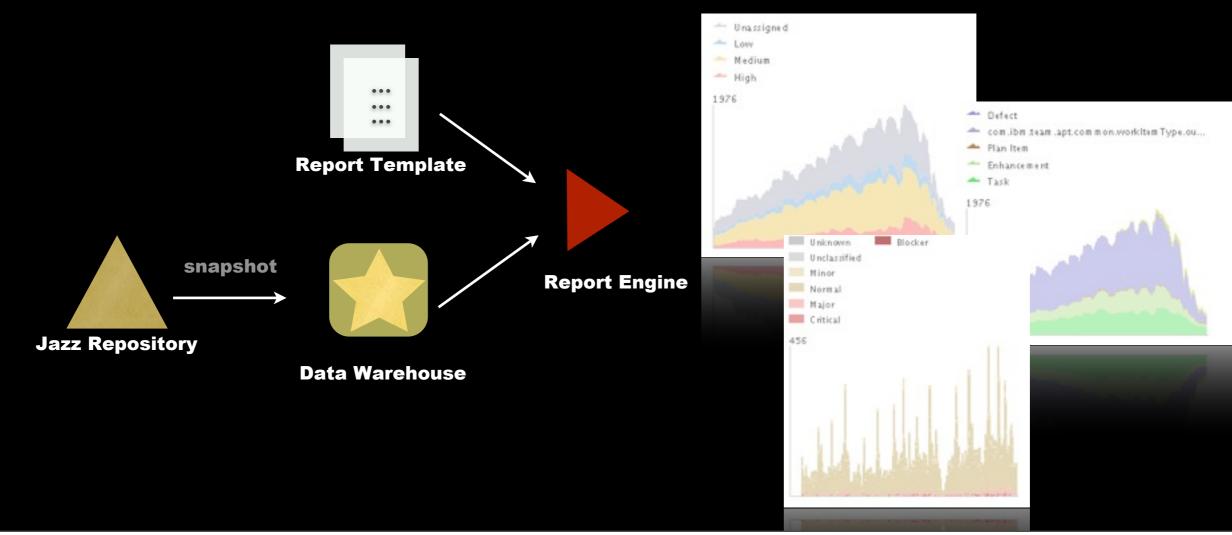
Jazz Build Engine

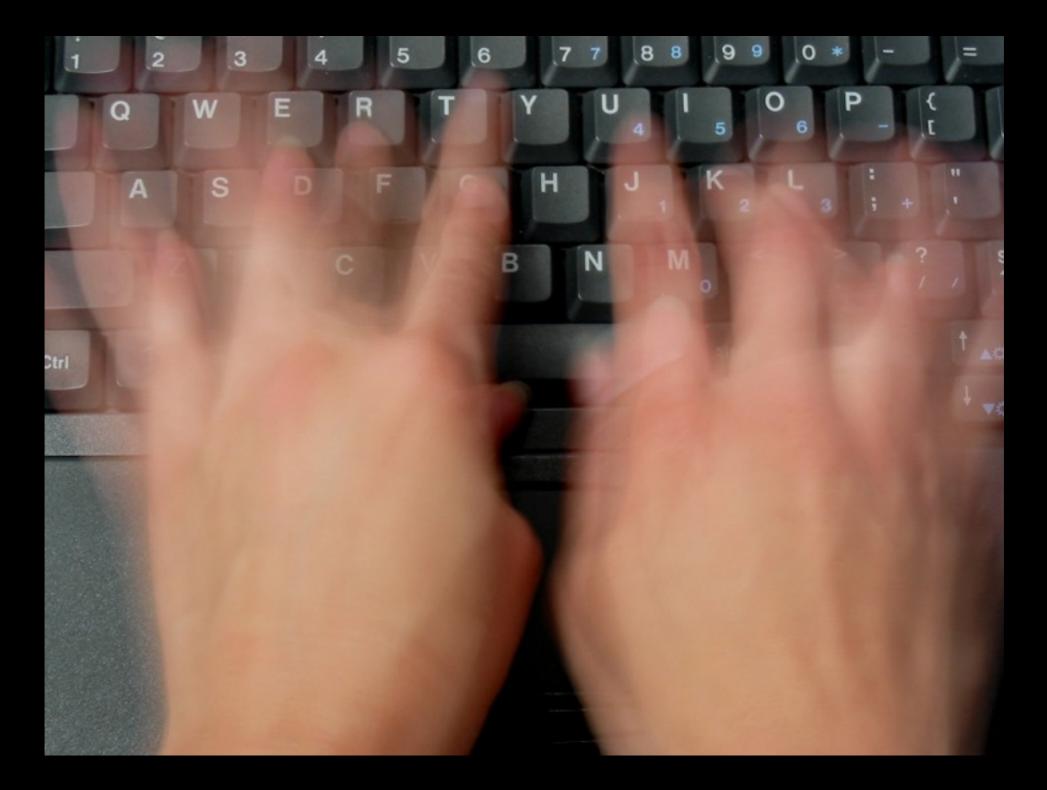


REPORT

Various project artifacts make it expensive to create report on-the-fly

A data warehouse is a storage facility for read-only, historical and aggregated data.

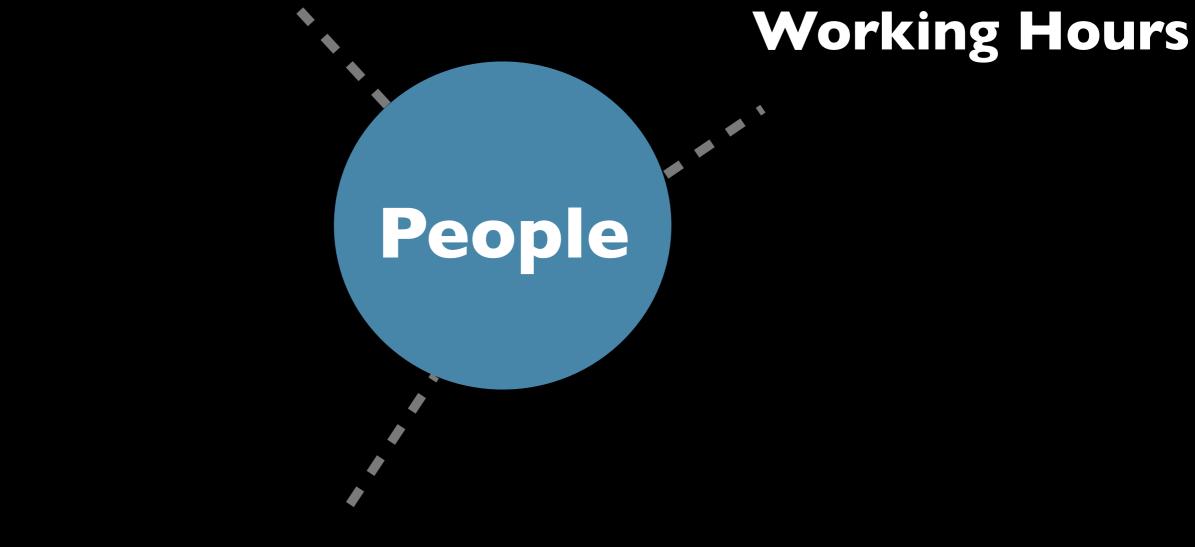




Measurable Productivity

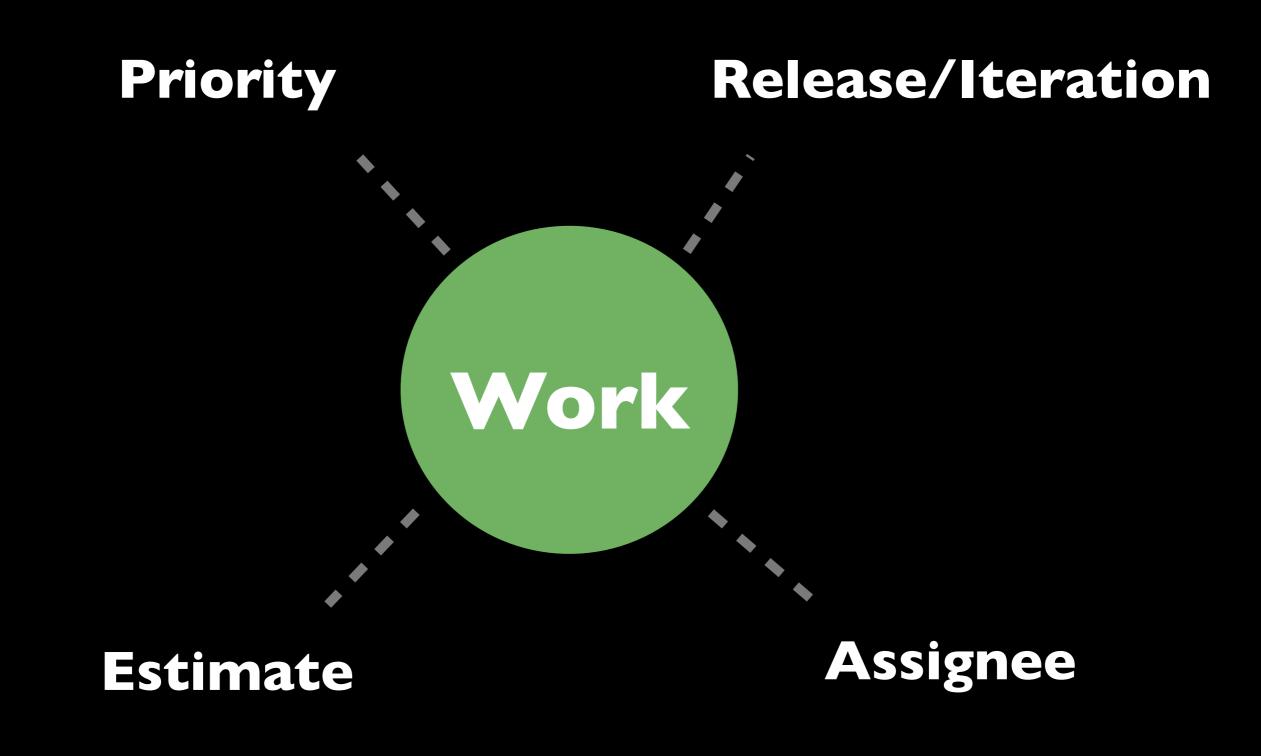


Work Assignments



Scheduled Absences

Thursday, September 30, 2010



Thursday, September 30, 2010

Load: 52 / 72 | +20 h Es

Estimated: 100%

Work Load

Sprint S Backlog (Missane S) C 176: while box tracing S Sprint S Backlog * Image: Sprint S Backlog * cam Area: AV Conference Team Reration: Missane S (8/17/09 - 8/31/08) 4 Closed 27.0ast Image: Sprint S Backlog Jeffrey Lia Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Sprint S Sprint S Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint Neeting Image: Sprint S Sprint	Java - Iteration plan Spr	int S Backlog - Milestone 5 -	Rational Tea	m Concert - /Vo	sluri rs/Broadwa	w/Dev/	RTC-AdTech		
Sprint S Backlog * care Area: AV Conference Team Beration: Milestene 5 (#/13/199 - 4/31/991 4 Closed 22 Open image: Sprint S Backlog * image: Sprint S	2 ± 2 · ∞ 2 · 5 · 0 · Q · 5 # 6 · 5 # 1 · 0 · 0 ¢ · 0 ·					El 2, Isra			
Area Area Area Area Area Area Area Area	Sprint S Backlog (Miestone S)	G 176: while box tracing					0		
Jeffrey Lia Crossed home: 31 (Open heme: 15 Liad: \$27/321 + 20 h Extinued 1000 Intraction 5 Sprint Meeting I hour 1 mgh 210 Intraction 5 Sprint Meeting I hour 1 mgh 210 Intraction 5 Sprint Meeting I hour 1 mgh 210 Intraction 5 Sprint Meeting I hour 1 mgh 210 Intraction 5 Sprint Meeting I hour 1 mgh 210 Intraction 5 Sprint Meeting I hour 1 mgh 210 Intraction 4 MAX Set Sprover ON Closed 5 Medum 224 Intraction 4 MAX Set Sprover ON Closed 5 Medum 224 Intraction 5 Meeting Intraction 10 (Deen heme: 10) Intraction 224 Intraction 217 (B) + 1318 Extended Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 217 (B) + 1318 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting Intraction 5 Meeting <	Sprint 5 Backlog *				Bas	RA	Save		
Closed loom: 3 (Open loom: 15 Inst 12 / 32 -20 h Immated 100 Instruction 5 Sprint Meeting I hour 1 map; 27 Pass user performance to SP UAs I hour 1 map; 27 Instruction 5 Sprint Meeting I hour 1 map; 27 Pass user performance to SP UAs I hour 1 map; 27 Instruction of AV controllers and display, XY session duration I hour 1 map; 28 Self Session Handler Belichtoring for Iteration 5 1 Map; 28 I map; 27 Map; 284 AV Conformance Meeting I hour 1 map; 28 Self Session Handler Belichtoring for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance Muetioning for Iteration 5 1 Map; 27 Map; 284 AV Conformance	am Area: AV Conference Team Iter	ation: Milestone 5 (8/17/09 - 8/3)	(09) I 4 Closed	127.0pen	The second se				
	Jeffrey Liu				_	1	Grant by		
Intraction 5 Sports Matering Intraction 5 Review Matching Intracting Review Matching Intraction 5 Review Matching	Closed Items: 3 Open Items	15		Load: 52 / 72 +7	20 h Estimate	£ 100%			
Processes performents its SPF UAs imageration of AV controller and SPF UAs Caculate and display AV session duration Caculate and display AV conteneus functionality with ST Mobils Late 127 (451+131 % Extended Taken and part life Caculate and AV F2P Dense Valee Taken and part life Caculate atoms Kore Fibers Tap Tap Tap Restand Nork fibers Tap restance S Review Meeting () 1 New Restand Nork fibers () () 1 New	Iteration 5 Sprint Meeting			1 hear	📅 1 migh	605	Owner		
Integration of AV controller and SP LMs Caculate and display AT session duration. SP Registration with WAS SP Server SP Registration with WAS SP Server ON Closed SP Section Rander Reflacturing for Beratium S List 2 / 45 +33 fr Exting Provide AV F2P Demo Valee Set Section Rander Reflacturing for Beration S Unassigned Unassigned Closed Beres: 1 Recation S Review Meeting Provide Remo: 2 (Open Rems: 1) Recation S Review Meeting Of 1 New Set Section Remoins Charts Training Recation S Review Meeting Set Section Remoins Charts Section Remoins Charts Set Section	• 🔝 Integrate AV Conference fund	tionality with ST Mobile			1 1 High	27	Sort By		
Cerviter and display ATF session duration © 2 hours © 10 Low 246 StP Region ation with WAS SP Server 0% Closed \$ Medium 226 StP Session Handler Refacturing for Benation 5 11% Closed \$ Medium 226 Jory Tiseing Inter 12 / 45 +13 k Entimated 100 Interlate Address and post for Closed forms Image: Contract AV Conference Autority with ST Mobile 18k Closed 1 https://image.contract.com None Filters Image: Contract AV F2P Denve View Image: Closed for Methods 1 https://image.contract.com None Filters Unassigned Closed forms 1 Image: Closed form 200 None Filters Image: Review Meeting Image: Closed form 1 https://image.contract.com None Filters Image: Review Meeting Image: Closed form 1 https://image.contract.com None Filters Image: Review Meeting Image: Closed for Meeting Image: Closed for None None Filters Image: Review Meeting Image: Closed for None Image: Closed for None Image: Closed for None Image: Review Meeting Image: Closed for None Image: Review Meeting Image: Review Meeting Image: Review Meeting Image: Review Meeting Image: Review Meeting Image: Review Meeting Image: Review Meeting Image: Re	Plan user preference to S	PUAs		@ 2 hours	🖶 1 High	249	Priority		
	integration of AV controlle	ar and SIP UAs		@ 4 heurs	1 1 High	241			
SP Registration with WAS SP Server OS Closed S Medium 223 SP Service Handler Reflactaring for Iteration 5 SP Service Handler Reflactaring for Iteration 5 SP Service AV Conference Munctionality with ST Mobile Iteration 5 SP Service Handler Reflactaring for Iteration 5 Unassigned Closed Items 1 One of the service S SP Service Meeting Provide Reflactaring Provide Reflactaring SP Service Meeting	Caculate and display AV st	ession duration		@ 2 hours	10 Low	248	Bars		
SP Session Handler Refactoring for Iteration 5 118 Closed 5 Modium 224 Jorry Tseing						225	Load		
Joery Tseng Los of terms Joery Tseng Last 12 / 46 +33 k Extinue Last 12 / 46 +33 k Extin									
	and the second se			LINCHORN	E Particular				
Second AV P2P Demo Valeo Second Randar Rankaring for Interation S Second Randar Rankaring for Interation S Second Randar Chinad Rankari D (Open Rankaring Second Rankaring	1942 B	10		Lost 32/651+1	12.h facimate				
							Resolved items		
SP Section Handler Refacturing for Instation 5 I Maduan 224 Unassigned Cleard Refs. 2 (Open Refs. 1) Related Work Refs. 5 Instation 5 Review Meeting I Insur 5 Meeture Related Work Refs. Insuration 5 Review Meeting I Insur Related Work Refs. Insuration 5 Review Meeting Insuration 5 Review Meeting						235	More Filters		
Linassigned Closed Items D Open Items 1 Related Work Items Shoe Racking Unplaned Closed Item Next Plans T T T T T T T T T T T T T		an fac instation 5					Taga		
Clased Items D (Open Items 1 Revalue S Review Meeting		ing for the second of				-			
		1							
rrview Planned News Charts				@ 1 heur	S Medium	239			
mine Rassel Revs Charts									
ender Plannel News Charts									
2+ 21 = the Content Works 0 + # E = 2 + 0 ● 2+ 21 = the Content Works 0 + # E = 2 + 0 ●							1. The second		
2+ 21 = the Content Works 0 + # E = 0 € #) ⊕ 3+ 21 = the Content Works 0 + # E = 0 € #) ⊕									
2)+ () + () + () + () + () + () + () + () +									
Di+ Di							-		
Di+ Di	arries Banned Berrs Charts					_			
[5+]] electronetteries [0+] を目の営行●			11 4	No Current Works		0.	1.000000		
			1.		_	-			
enzie Parend Rent Cheth				Se Course Merche		1.000			
	strike Rannel Rent Charts								

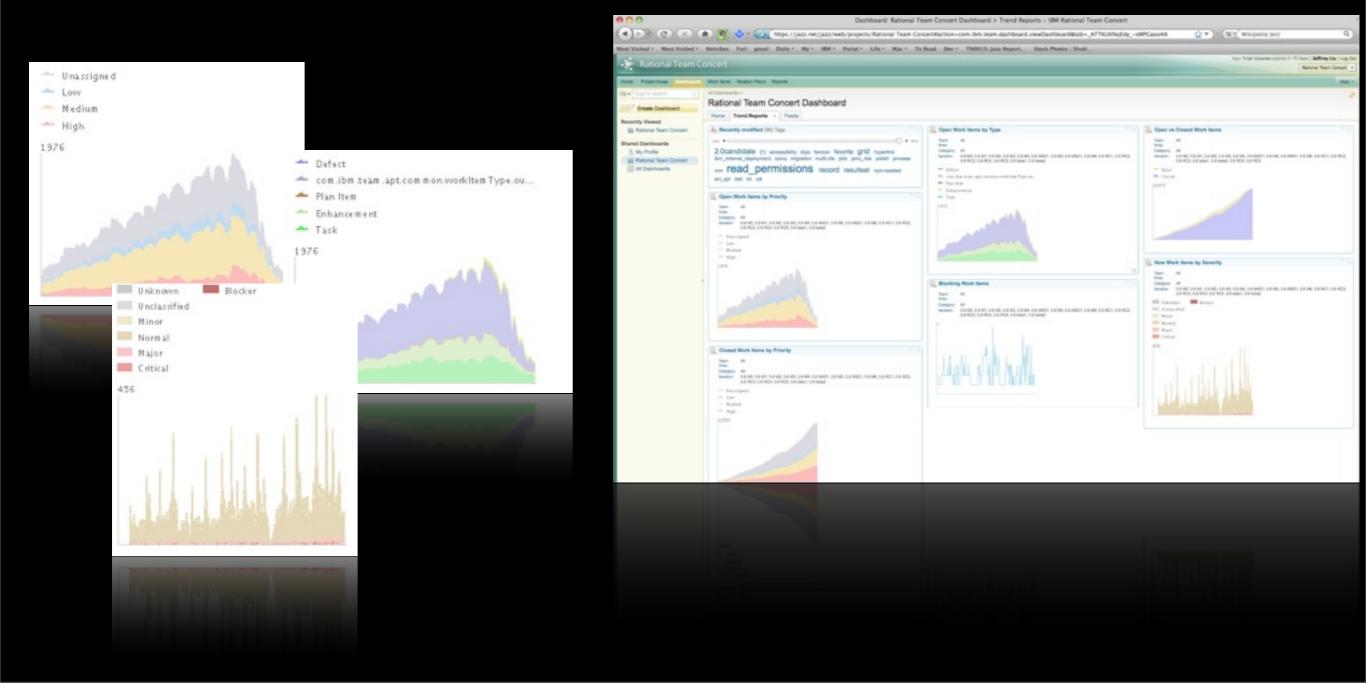
	A Java - Iteration plan Sprint S Backlog - Milestone S - Rational	Team Concert - /Volumes/Bro	adway/Dev/RTC-AdTer	dh .	
10	- G G [B + B H + S + O + Q +] S # G + [S + P S + S + S + S + S + S + S + S + S + S	i ⊂ a		[] 4/ mm	-
-	C Sprine 5 Racking (Minesters 1) (2) 3 176 while bear tracing				
12	10 Sprint S Backlog *		E 2 11 11 4	C 10 10 10 10 100	а,
2	Team Area: All Conference Team Relation: Milestone 5 (8/17/08 - 8/01/08) 4 Cleand 27 Opt	Progress 8 / 107 +0.h	8	fatimated 10	86
de l	Description of the second	-	1	Group by	
2	Closed Innte. 3 (Open News) 13 Instation 1 Sprint Meeting	Propres 8/18/ +1	 Estimated 2006 1 Hugh 2340 	Owner	8
-	· · · · · · · · · · · · · · · · · · ·		T 1140 27	Seri By	
	Para unar preference in SP URA	O 2 hours	T 1100 040	Priority	
	D Integration of AV controller and SP UKs	© 4 hours	E 116ph 241	(cost)	
	Caculate and display KV session duration	© 2 hours	10 10 ine 248	Bara	
	* E SP Registration with WAS SP Server	Di Cissai	# 5 Medium 225	Popesi	9
	* (E) SIP Session Handler Reflectoring for Iteration 5	118 Canel	B 5 Medium 234		
	Inter Trans	The Calor		Exclude Deturn and past its.	
	Choised Items: 1 Open Items: 20	Progress 17311	h Estimated 2008	Realized terms	
	* () Integrate AV Conference functionality with ST Mobile	18% Cleved	🗄 1 Hages 27	More Filters_	
	Kacord All F2F Deno Video		😸 5 Medium 235	Taga.	
	 * (i) 19 Second Hardler Relationing for Instation 1 		it Stindars 234		
	. Unassigned		ľ	Related Work Same	
	disc Deset term 3 (dpen term 1 disc Deset term 3)	Progress 0/11k	Estimated 30%	Show Backing Unplanned Closed Item	
	Overview Parrier tom Charts	<this current="" th="" works<=""><th>1.021</th><th></th><th>-</th></this>	1.021		-
-	1.75	1 outpresent			-
	I d* I H	san chunic anus	1.0+	1 - 2 - B - B - C	
	Bearine Reveal that Charts				
			7		
ī			•		

Work Progress



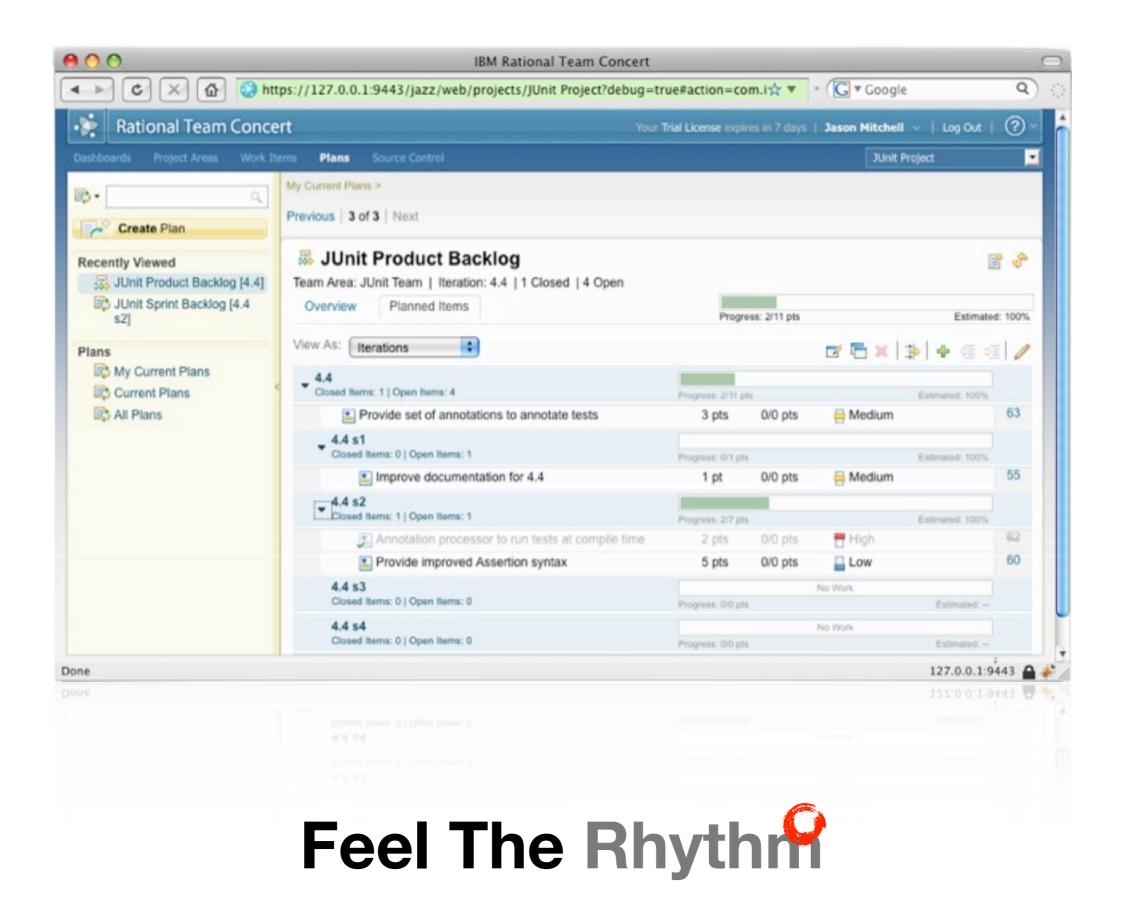
Estimated: 100%

Development Velocity



How it feels like ?





References

iazz.net

http://jazz.net/projects/rational-team-concert/

IBM Information Center

http://publib.boulder.ibm.com/infocenter/rtc/v2r0m0/index.jsp

RTC in developerWorks

http://www.ibm.com/developerworks/views/rational/libraryview.jsp?product_by=All+Rational

+Products&search_by=Scrum+project+management+with+IBM+Rational+Team+Concert+Version+2

