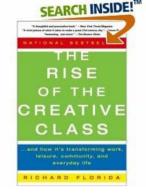


Orit Hazzan and Yael Dubinsky
Technion – Israel Institute of Technology

Main Message

- diversity benefits with communities and organizations that welcome it
- diversity is an inherited element of GSD
- we should embrace this inherent diversity by establishing a culture that allows for diversity
- agile software development creates a culture that allows for diversity; therefore, it may support GSD processes
 - gender diversity
 - management diversity





City	Creativity Index	%Creative Workers	Creative Rank	High-Tech Rank	Innovation Rank	Diversity Rank
1. San Francisco	1057	34.8	5	1	2	1
2. Austin	1028	36.4	4	11	3	16
3. San Diego	1015	32.1	15	12	7	3
3. Boston	1015	38.0	3	2	6	22
5. Seattle	1008	32.7	9	3	12	8
6. Chapel Hill	996	38.2	2	14	4	28
7. Houston	980	32.5	10	16	16	10
8. Washington	964	38.4	1	5	30	12
9. New York	962	32.3	12	13	24	14
10. Dallas	960	30.2	23	6	17	9
10. Minneapolis	960	33.9	7	21	5	29





America's Top Organizations for Multicultural Business Opportunities - 2005

Over 525,000 women and minority owned businesses had the opportunity to vote in the online election. The election was conducted in a Internet environment utilizing the latest technology available. Fortune 500 companies and Government Agencies were selected for the aw based on business opportunities they provide to diversity owned businesses.





Jobs@American Express

Campus Recruitment

American Express Businesses Areas of Interest | Locations | Q&A | Search Jobs

International

International MBA

► International Graduate

Global Finance Rotation



International Graduate

American Express is committed to attracting the highest-caliber graduates to lead and grow our business into the future. Not just academics, but individuals with intellectual curiosity, passion, flexibility and drive.

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If you are a final-year student or have recently graduated, you may be interested in joining American Express. We offer diverse and exciting careers with the opportunity for early responsibility, international experience, and outstanding personal growth and development. International graduate programs include, but are not limited to:

- Sales
- Marketing
- · Project Management
- Finance
- Customer Service

Internships

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Candidates who qualify for a world-class opportunity with American Express will be those who are seeking a unique global training and development experience. They will be innovative and creative individuals, who embrace diversity, take ownership and seek out solutions.



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We strive to attract and retain professionals of all backgrounds and experiences at Deloitte & Touche USA LLP and to provide an inclusive culture. This allows us to offer clients the best solutions and help our people realize their greatest potentials.



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As Deloitte globalizes, expands its client base and encourages a progressive culture, the meaning of diversity takes on new dimensions. A committed approach translates into thinking inclusively, valuing differences and giving everyone a chance to do their best work.

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Explore What's New

LATINA Style magazine's 'Top 5 Companies for Latinas' Third year in a row.

Deloitte & Touche USA LLP Rece Silver Torch Award from the Na Black MBA Association Committed to diversity, inclusio

Article: About the Diversity Initi Leader Meet the driving force.

CIO Larry Quinlan Named To 'B MBA' Top 50 Under 50 Competence, vision cited.

Press Release: Deloitte & Touch Makes Essence's Top 30 Compa for African-American Women The only professional services f

Vie

Jared L. Cohon: CMU President's Statement on Diversity

I want Carnegie Mellon to be a place that celebrates these diversities rather than merely tolerating them, because being a more diverse institution will make us a better institution. In the classroom, studio, laboratory, office and dormitory, a multitude of experiences, perspectives and beliefs will enrich all that we do.

Source: http://hr.web.cmu.edu/drg/overview/statement.html

Software Industry

- Problems
 - Coping with change
 - □ Software quality
 - Management of software projects
- Solution
 - ☐ Agile development -- enhances and supports diversity
- Outcome
 - □ Better processes



Agile Software Development Methods

- All acknowledge people centrality.
 - □ Extreme Programming (XP)
 - □ SCRUM
 - □ Feature Driven Development
 - \square DSDM
 - □ Lean Development

Agile Software Development

- Better projects
 - □ Cost reduction: 5%-7% on average
 - □ Time to market: 25%-50% reduction
- Increases potential for diversity

Research Field (Yael Dubinsky's Ph.D.)



- The Department of Computer Science
- Projects in Operating Systems
- ~ 35 projects
 - □ 10-12 students in each
 - Studio environment
- Extreme Programming (XP)
- Coaching team was XP-trained









Studio/Lab







Management Diversity

- Role Scheme
 - □ All teammates are developers
 - Each teammate has a role in the project management
 - □ Roles are referred to as practice representatives

- Leading Group
- Customer Group
- Code Group
- Maintenance Group

- Leading Group
 - Coach
 - Tracker
- Customer Group
- Code Group
- Maintenance Group

- Leading Group
- Customer Group
 - End user
 - On-site customer
 - In charge of acceptance testing
- Code Group
- Maintenance Group

- Leading Group
- Customer Group
- Code Group
 - In charge of unit testing
 - In charge of design
 - In charge of code control
 - In charge of continuous integration
- Maintenance Group

- Leading Group
- Customer Group
- Code Group
- Maintenance Group
 - In charge of presentations
 - In charge of documentation
 - In charge of installation shield

Management Diversity

- Role scheme:
 - Accountability
 - □Commitment
 - Involvement
- Enhances diversity

Role holders: What did you get from teamwork in agile software development? (italics ours)

"1. Developing in a team allows the project goal to be more challenging and much more interesting. 2. In this way you can learn more about other people ideas and solutions."

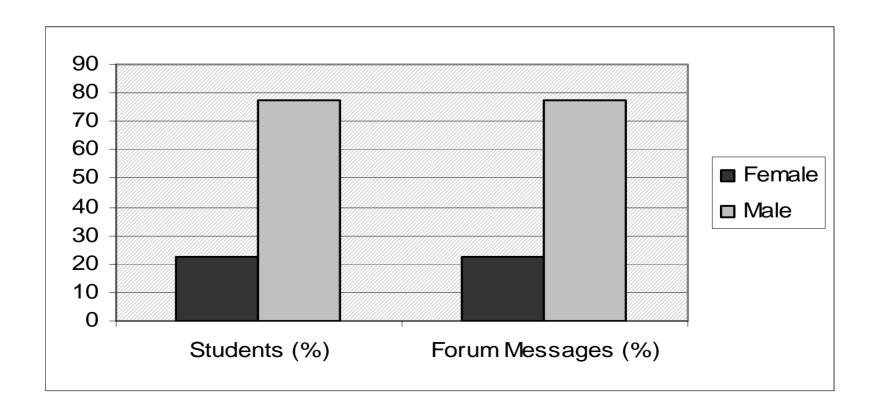
• "[It] taught me personally how to cope with other people's shortcomings as well as on my own, and interact well with team members despite some disagreements."

Gender Diversity

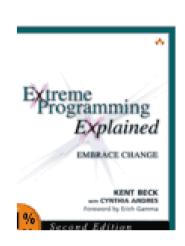
Data: 228 males (77.6%) 66 females (22.4%)

The percentage of the number of forum messages:

4702 messages by males (77.2%) 1391 by females (22.8%)



Beck with Andres, 2005, 2nd edition Extreme Programming Explained



■ A principle – diversity:

Teams need to bring together a variety of skills, attitudes, and perspectives to see problems and pitfalls, to think of multiple ways to solve problems, and to implement the solutions.

Teams need diversity. (p. 29).

Summary

- Diversity benefits with software development processes
- Diversity is an integral part of GSD
- This diversity should be supported
- Agile software development enhances and supports diversity
- Agile software development may support and enhance GSD process