Diversity as a Dependency

Anna Martelli Ravenscroft

What do you think of

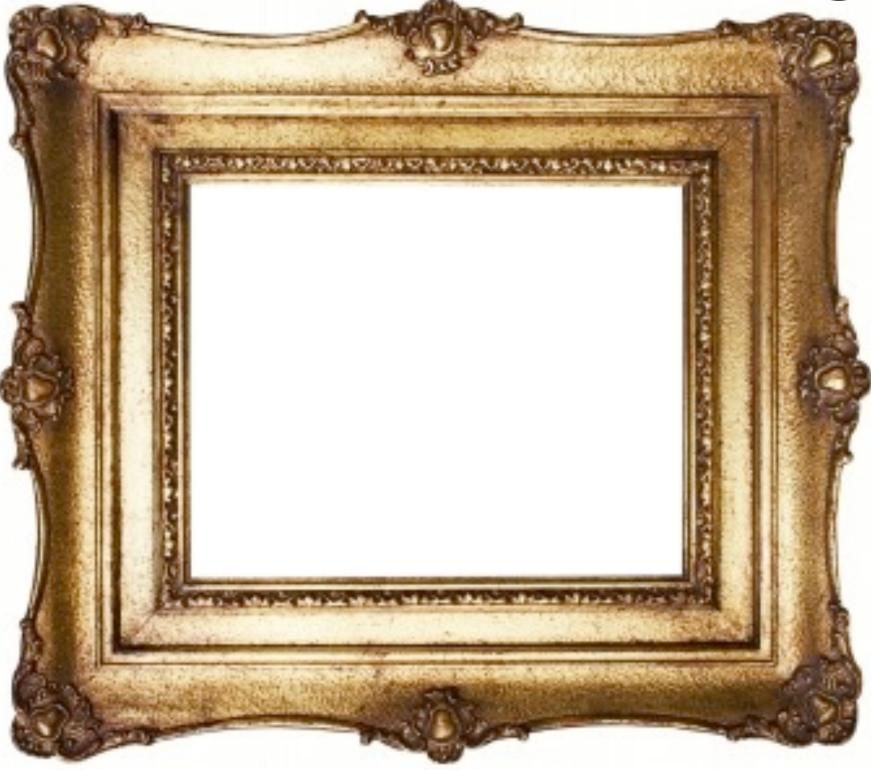
when you hear the word

What do you think of

when you hear the word

<u>diversity</u>



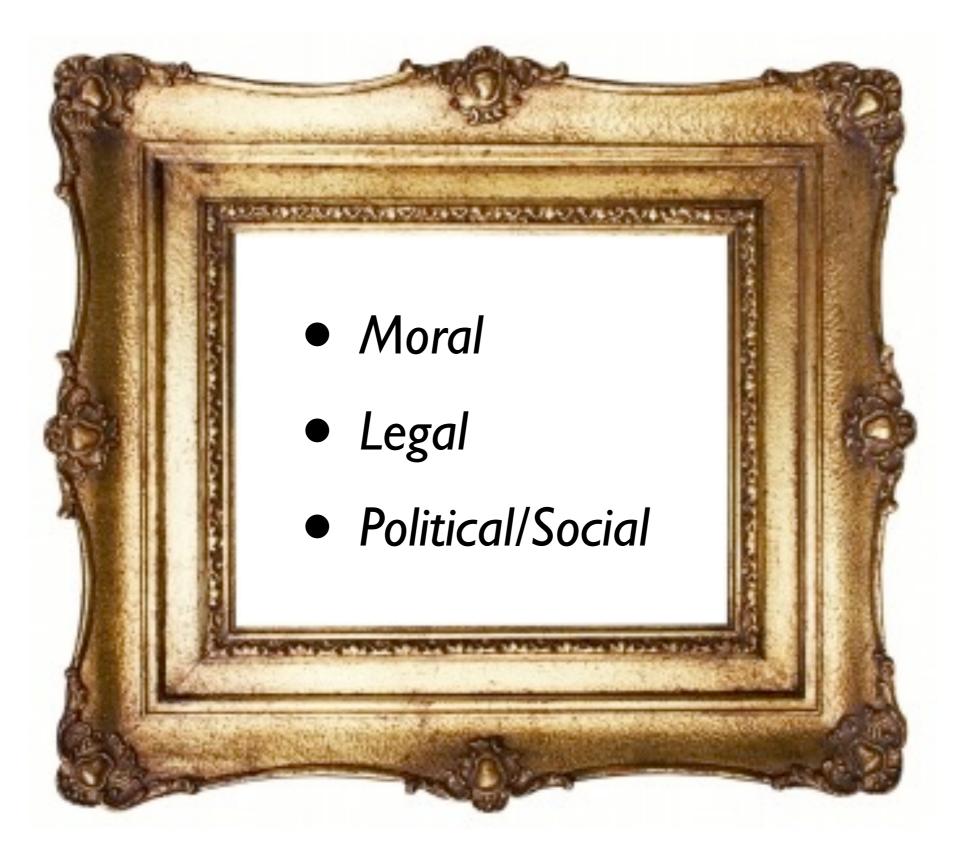






• Political/Social

THERE HERE HAR WERE HERE TO



The Usual Framing











• Laying



- Laying
- Threatening



- Laying
- Threatening
- Avoiding







• Guilt-Free Zone



- Guilt-Free Zone
- Diversity is NOT a club to beat people with



http://images.buycostumes.com/mgen/merchandiser/33936.jpg



- Guilt-Free Zone
- Diversity is NOT a club to beat people with

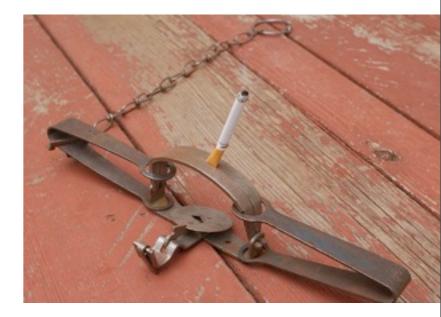


• No "diverser than thou" games

http://www.flickr.com/photos/mendeley/4088774879/



- Guilt-Free Zone
- Diversity is NOT a club to beat people with
- No "diverser than thou" games
- No traps



http://www.flickr.com/photos/51999423@N00/37207464

Why diversity matters

Why diversity matters

WIFM

Why diversity matters



Agenda

- Review some studies
- Diversity model
- Final thoughts
- Q&A

Small town



- Study of a small town
 - magazine/newspaper subscriptions
 - who were the most influential in town

"Patterns of influence: local and cosmopolitan influentials." Pp. 387-420 in Robert K. Merton (ed.), Social Theory and Social Structure, 1957

Big corporation

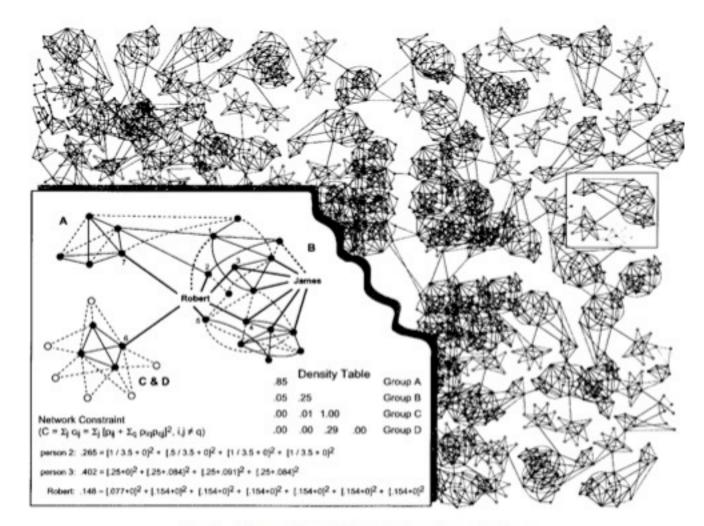


FIG. 1.- The small world of markets and organizations

Structural Holes and Good Ideas, Ronald S. Burt AJS Volume 110 Number 2 (September 2004): 349–99

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Big corporation

network analysis

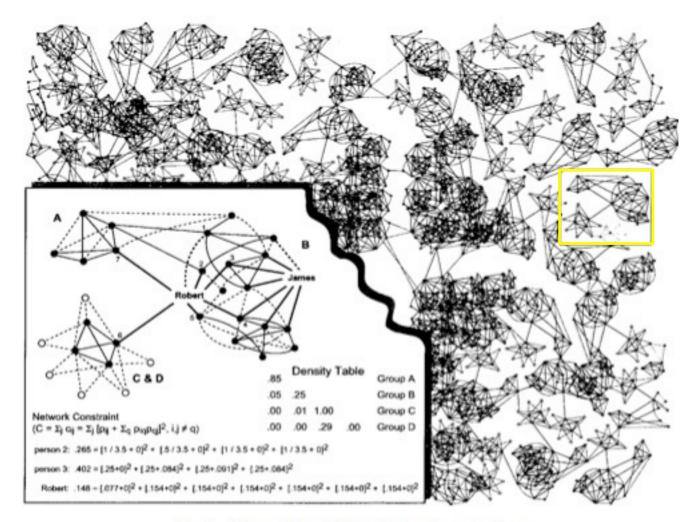


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Big corporation

network analysis

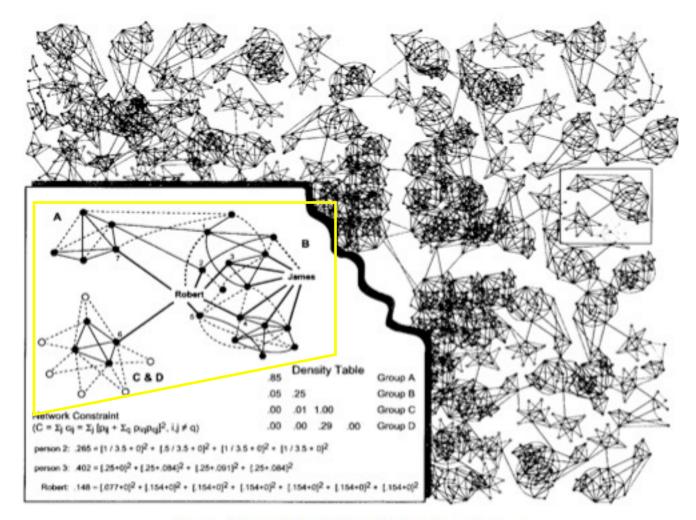
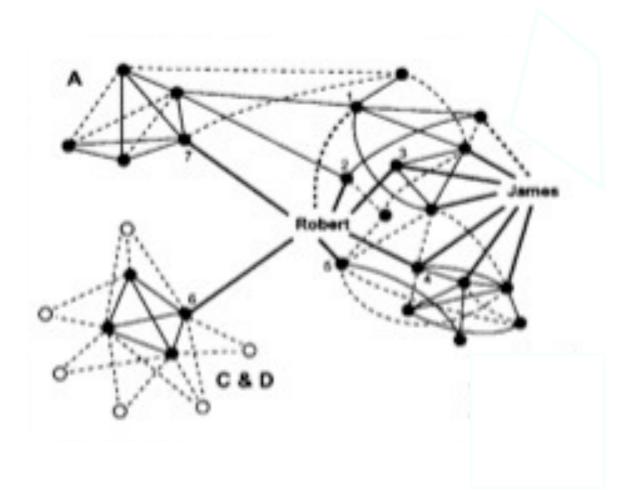
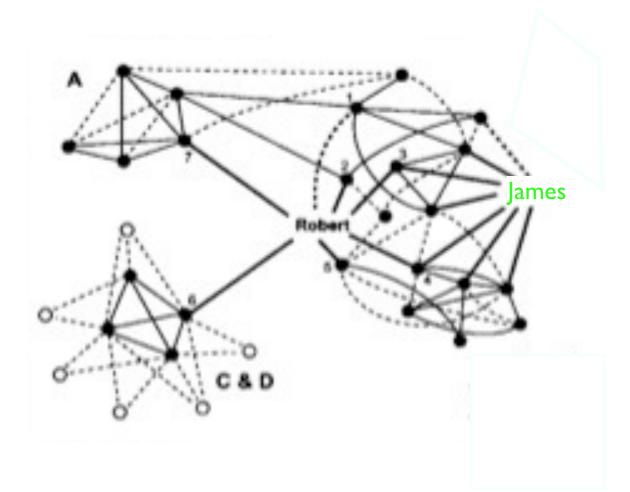
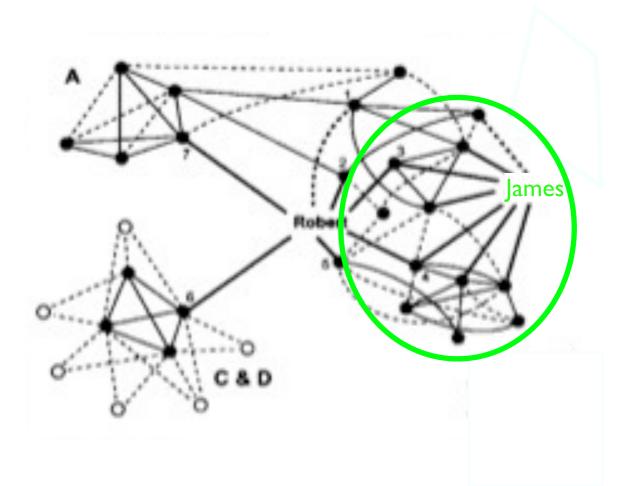


FIG. 1.-The small world of markets and organizations

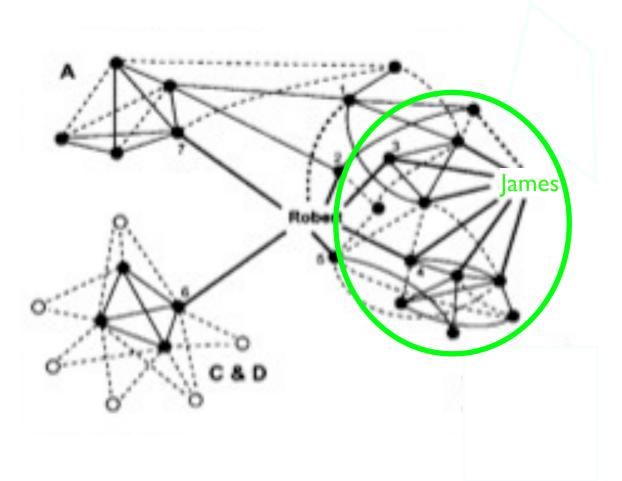
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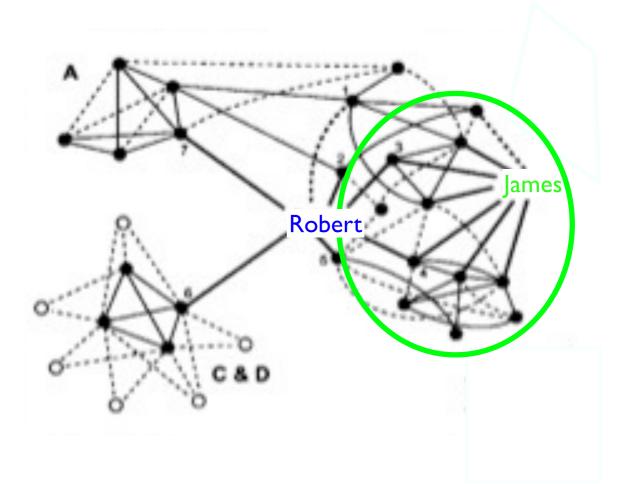




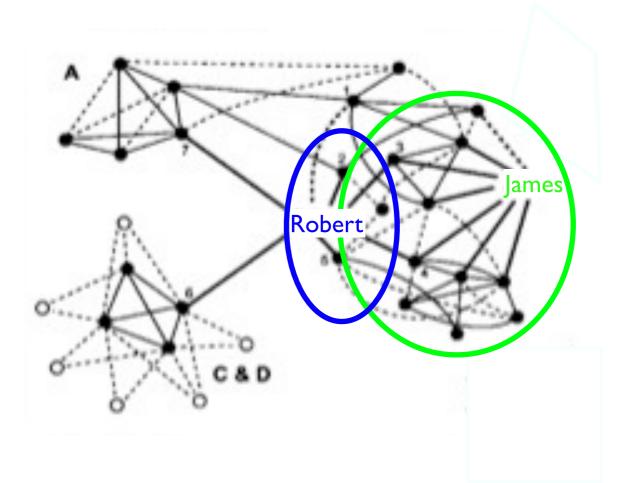






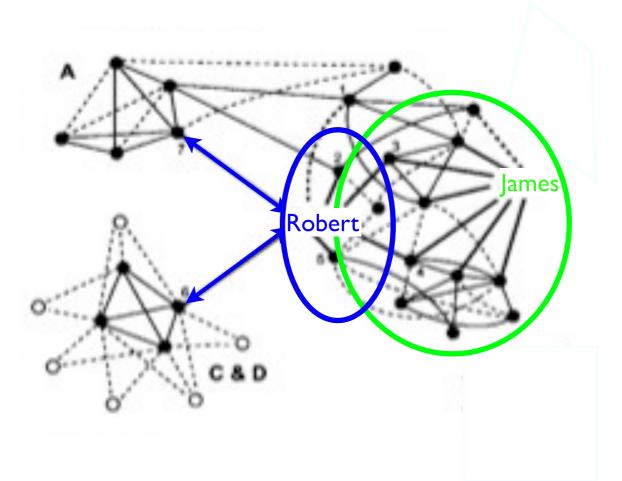




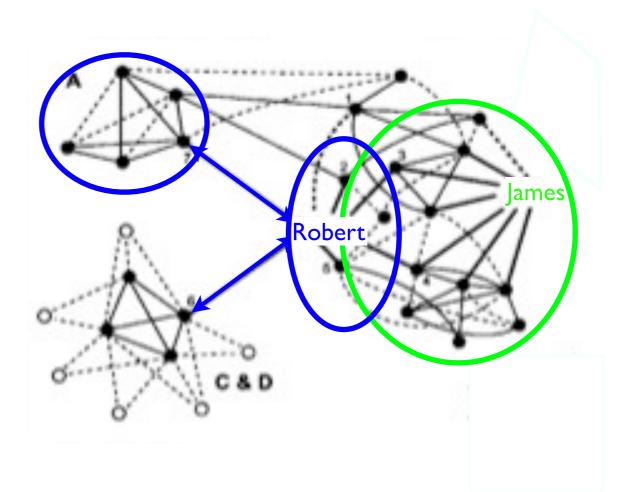




structural holes

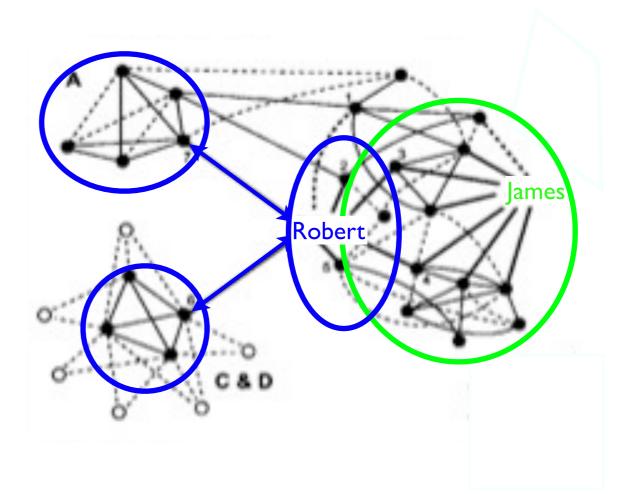


- in-groups
- structural holes



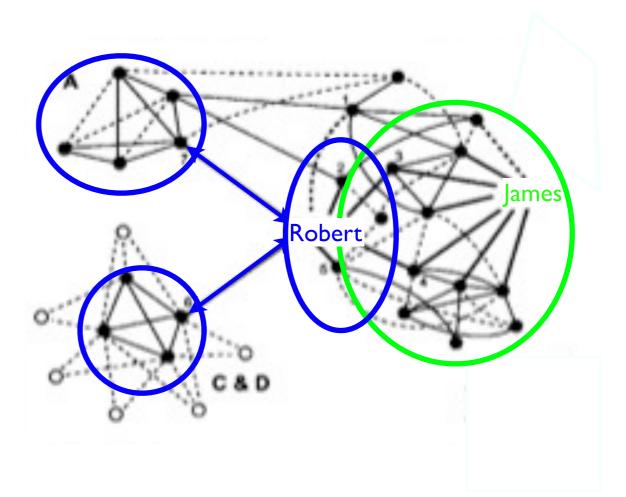


• structural holes



Who's most creative?

- in-groups
- structural holes
- creativity study



Dunbar, K. (1995). How scientists really reason: Scientific reasoning in real-world laboratories. In R. J. Sternberg & J. E. Davidson (Eds.), The nature of insight (pp. 365-395). Cambridge, MA: MIT Press.

• Solving difficult problems

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- Solving difficult problems
 - Unexpected results

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- Solving difficult problems
 - Unexpected results
- Analogies

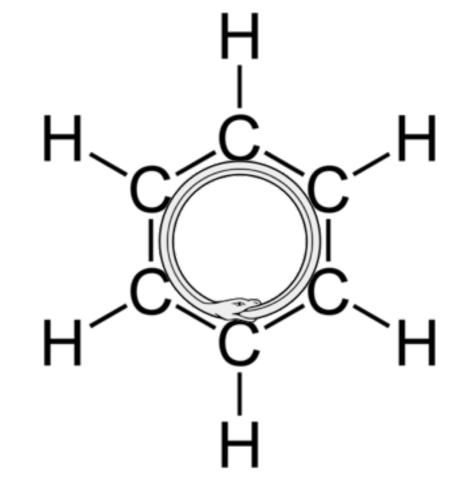
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- Solving difficult problems
 - Unexpected results
- Analogies
- Conceptual Changes



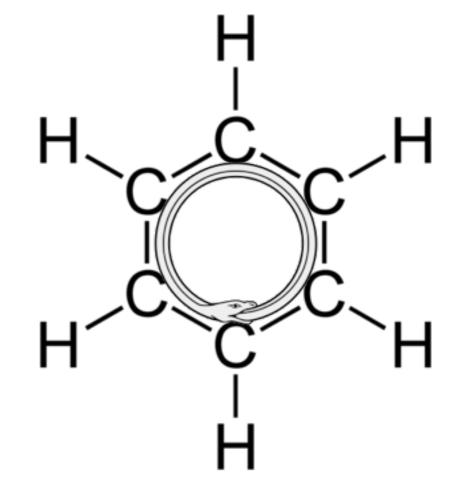
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- Solving difficult problems
 - Unexpected results
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- Solving difficult problems
 - Unexpected results
- Analogies
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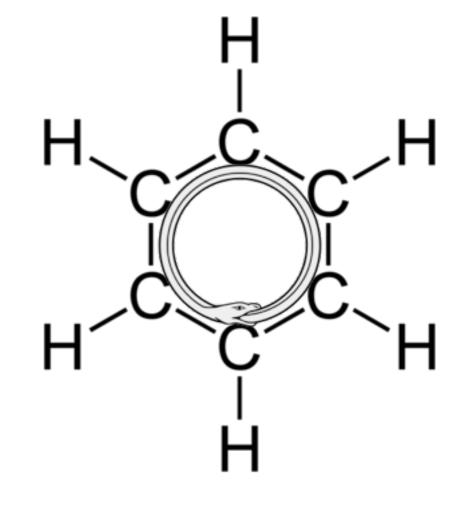


Friedrich August Kekulé

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- Solving difficult problems
 - Unexpected results
- Analogies
- Conceptual Changes
- Different pools of knowledge



Friedrich August Kekulé

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Review

The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools, and Societies ~ Scott E. Page

Review

Interactions among individuals with different **perspectives**, **skill-sets**, **needs and motivations**, generates innovation and creativity

The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools, and Societies ~ Scott E. Page

Kinds of diversity

- needs/motivations
- skill sets
- perspectives

Contributing to Python

Contributing to Python

- patches
- modules
- recipes
- bug reports
- beta testing
- documentation

- sprints
- PEPs
- giving talks
- organizing events
- translation
- internationalization

Scratching an itch



flickr.com/photos/ rwfreund/73152138/

Different itches

 Each person has a different itch to scratch different needs/wants/motivations

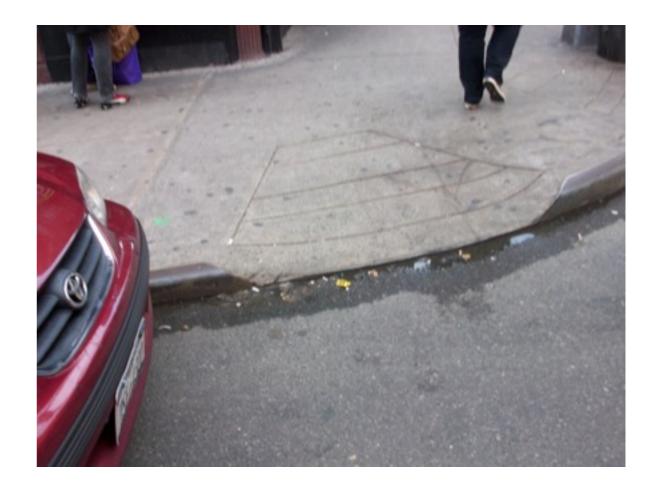
Scratching a niche

Scratching a niche

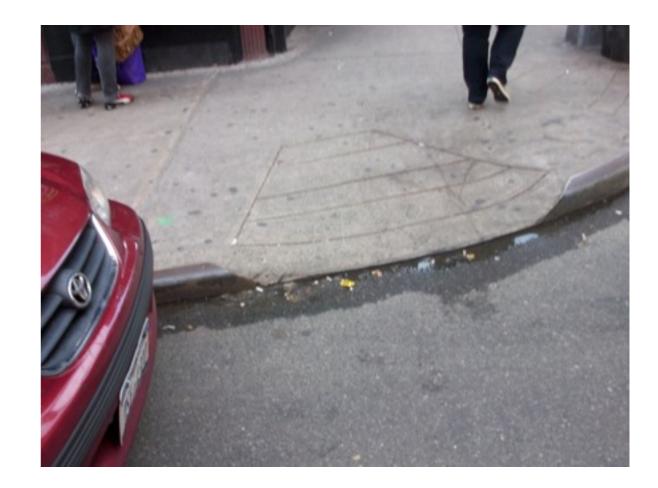
 Isn't focusing on "diversity" just catering to special interest groups?

Scratching a niche

- Isn't focusing on "diversity" just catering to special interest groups?
- WIIFE?





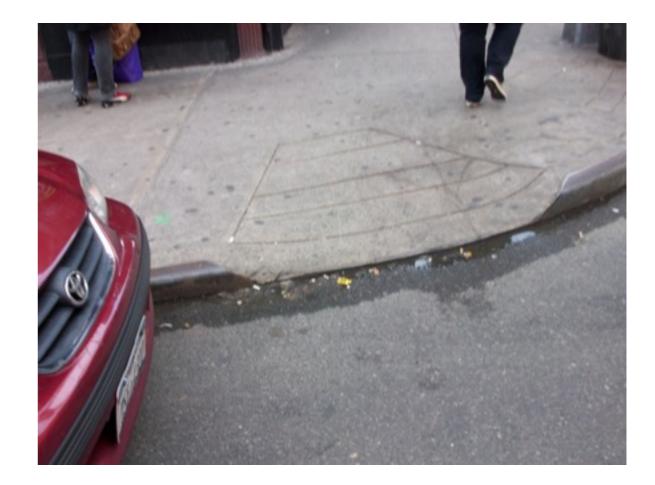


• curb cuts

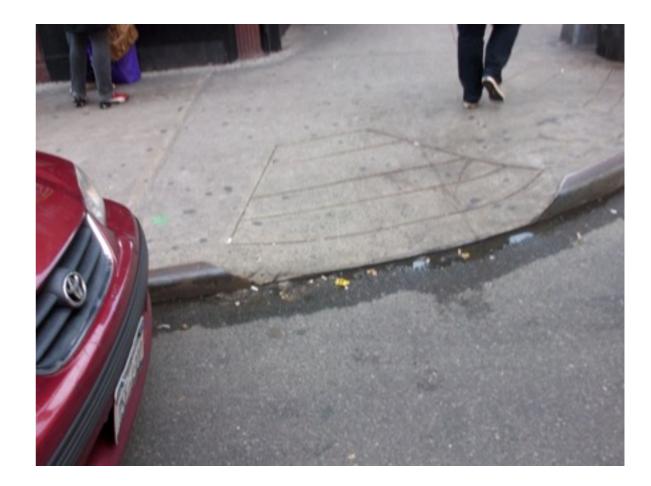
• text-to-speech



- curb cuts
- text-to-speech
- subtitles/captions



- curb cuts
- text-to-speech
- subtitles/captions









Different skills

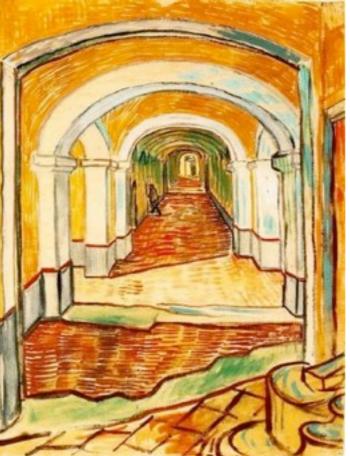
 We all have different skill-sets that we bring to Python

Perspectives

• We all come to Python with unique backgrounds and experiences

Perspectives







http://resumbrae.com/ub/dms423_f06/10/

• We all approach problems in different ways

- We all approach problems in different ways
 - and may even see different problems

performance, internationalization, testing, ponies,...

- We all approach problems in different ways
 - and may even see different problems

performance, internationalization, testing, ponies,...

and different solutions
Hadoop, ICU, Selenium, Django, ...

Diversity matters

- Not just for the moral or political reasons
- but also for very pragmatic reasons

Remember all the different ways people contribute to Python?

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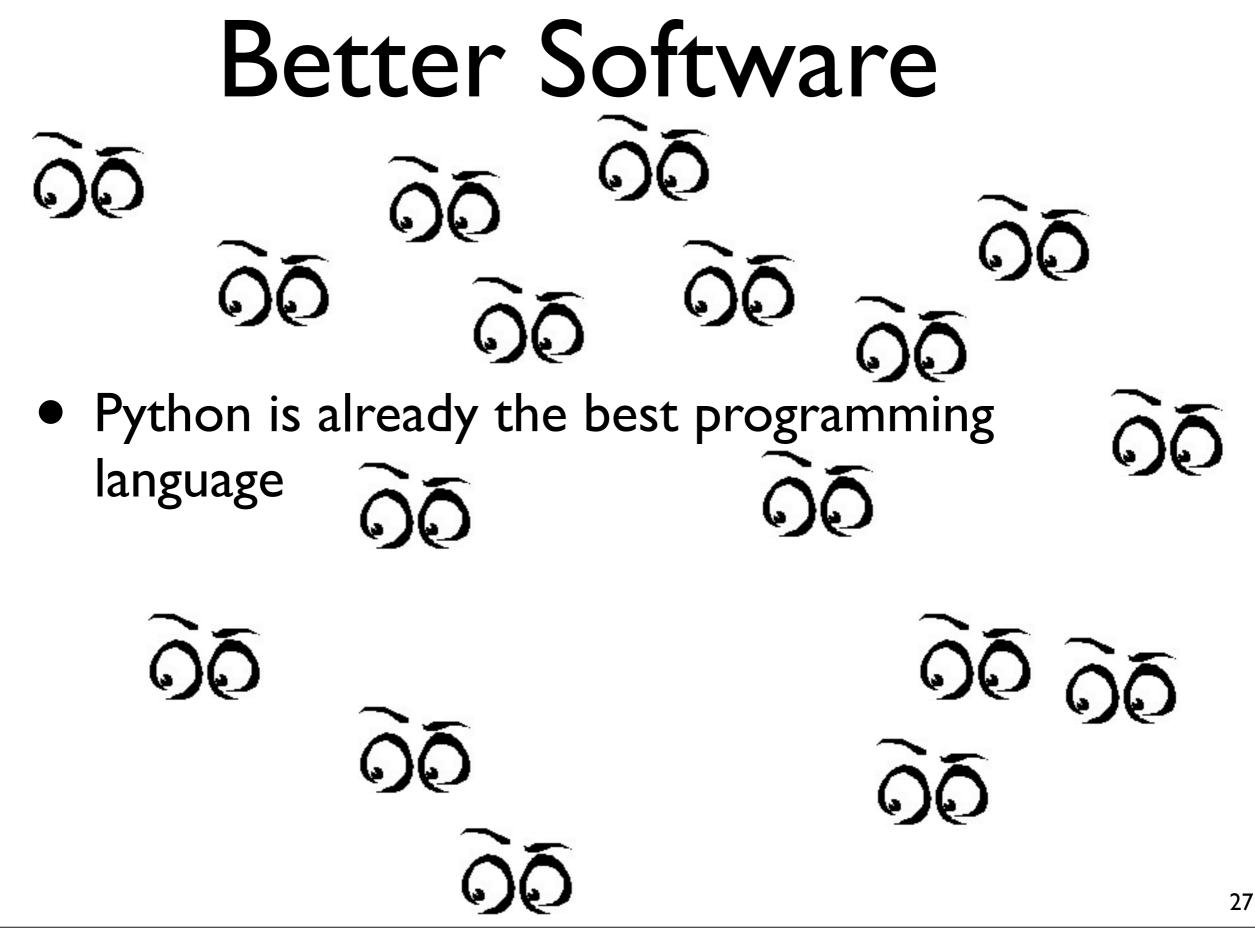
How does diversity matter?

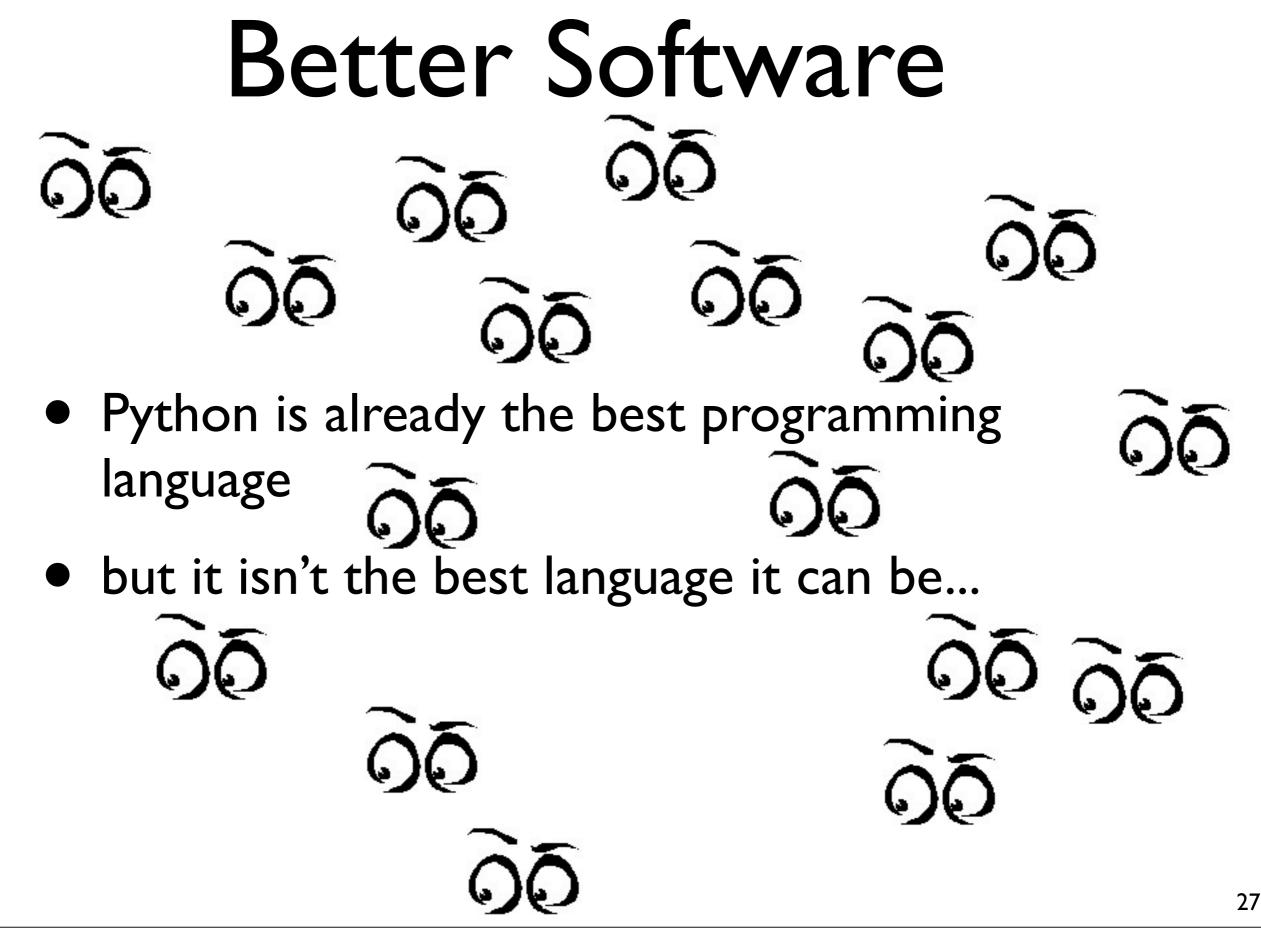
- different needs/motivations + skill-sets + perspectives...
- generate innovation and creative problem solving,
- which leads to...

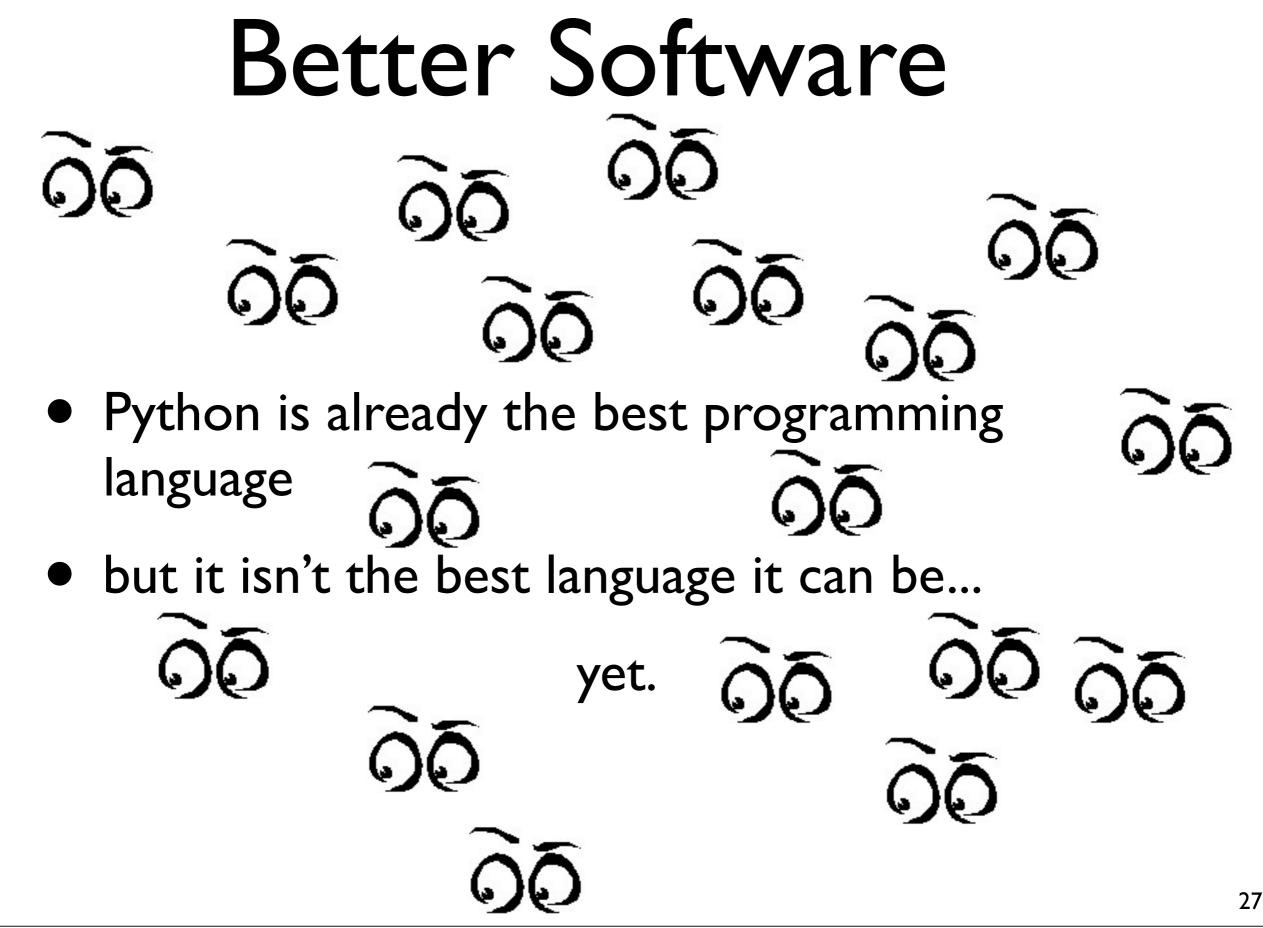
Better Software

Better Software

 Python is already the best programming language







For Python to be the best...



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Necessary



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• All those differences cause friction

- All those differences cause friction
- problems communicating

- All those differences cause friction
- problems communicating
- different goals and priorities

- All those differences cause friction
- problems communicating
- different goals and priorities
- valuing other perspectives and skill sets



- Education
- Facilitating communication

- Education
- Facilitating communication
- Clear process and goal-setting

- Education
- Facilitating communication
- Clear process and goal-setting
- Clear decision-making

- Education
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- Clear process and goal-setting
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- Education
- Facilitating communication
- Clear process and goal-setting
- Clear decision-making
- Willingness to Work



Programming is hard



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People are harder



People are harder

 and we don't come with docs



Diversity rocks!



Diversity rocks!



You can never go wrong with kittens. --Damian Conway