



Integration as a Non-Reductive Virtue

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The Plan

- The Value of Virtue
- Virtues and Collaboration
 - Do groups have virtues?
 - How do they relate to individual virtues?
- Non-reductive, Unique Group Virtues – an example
 - Integration
- Training for Integration
 - What sorts of individuals do (and don't) make up virtuous groups

The Value of Virtue

- Pennock and O'Rourke
 - How do we train for RCR?
 - Become a virtuous Scientist
- Knowledge Making and Virtues
 - The intellectual virtues
- Collaboration – Intellectual virtues in a group context?

Intellectual Virtues and Collaboration

- Can Groups Have Intellectual Virtues?
 - Yes
 - Intuitively - open minded groups vs open minded individuals
 - Empirically/Theoretically – Wooley (CQ), Cheruvilil (high-performing teams)
- How do Group Intellectual Virtues relate to Individual Intellectual Virtues?
 - Some Group Intellectual Virtues are –
 - Not Reducible (again with the open minded example)
 - Unique (distinct from Individual Intellectual Virtues) – more on this on the next slide

Group Intellectual Virtues – An example

- Integration
 - A team has the virtue of *integration* when it's capacities are
 - Synergistic
 - Efficient – the synergy serves the purposes of the group
- A Story about Great School Architecture
 - Colorado State – Institute for the Built Environment

Training for Integration



3 SCIENTISTS

walk into a bar

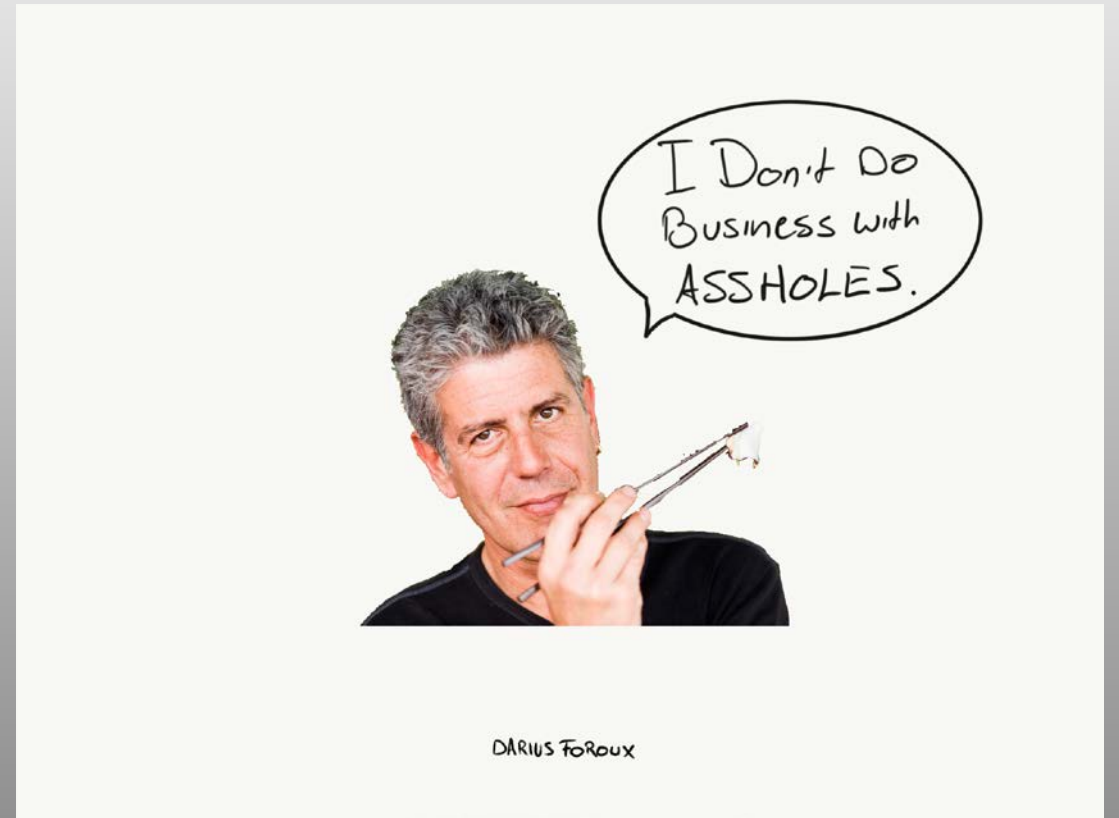
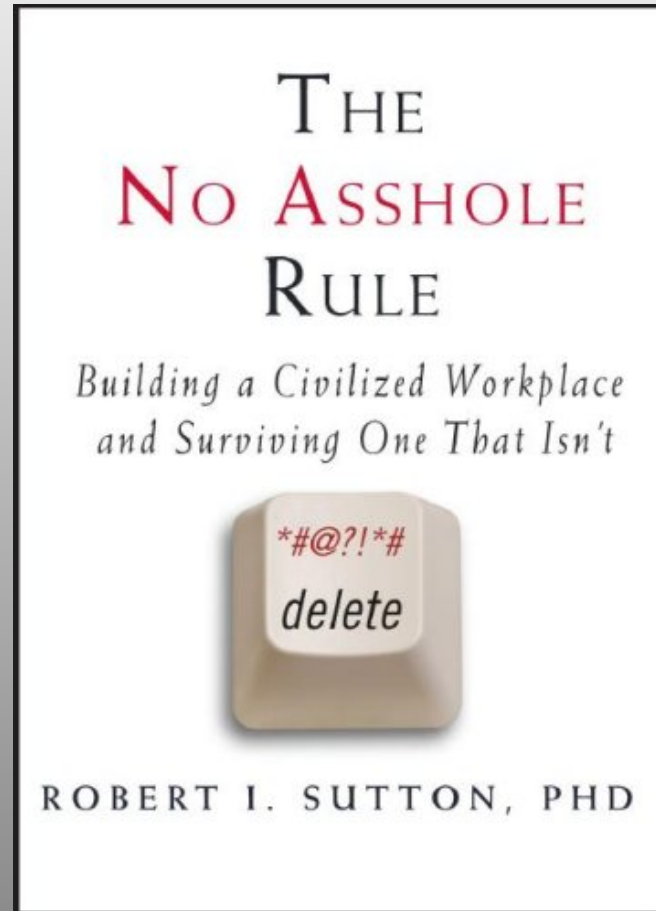


Integration Paradox

Team Composition

- Not looking for integrators
- What individual traits (vices) are counter-productive to the group virtue of integration?
- What individual traits (virtues) are conducive to the group virtue of integration?

No Assholes Rule



Intellectual Humility

- *Open-minded*
- Modest
- Intellectually Engaged
- *Corrigible*

That's All Folks ...

(Apart from one small request)

- Our Question to You
- Which of the steps in our story strike you as most
 - Implausible?
 - Incomprehensible?