

May 7-9, 2005

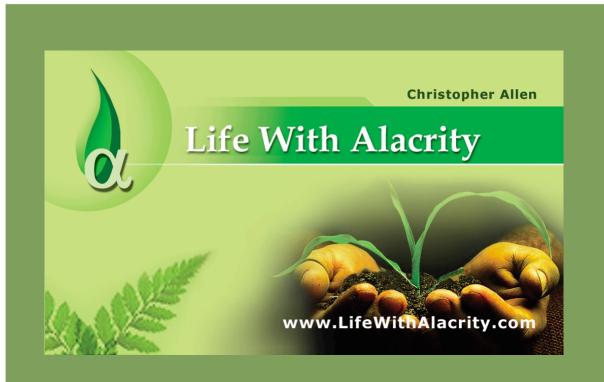


The Dunbar Number

or "groups don't scale"

Christopher Allen





or "groups don't scale"

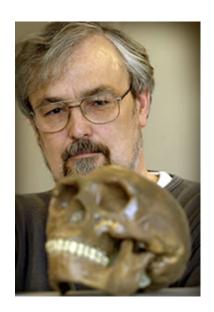
Christopher Allen



OL.

The Dunbar Number or "groups don't scale"

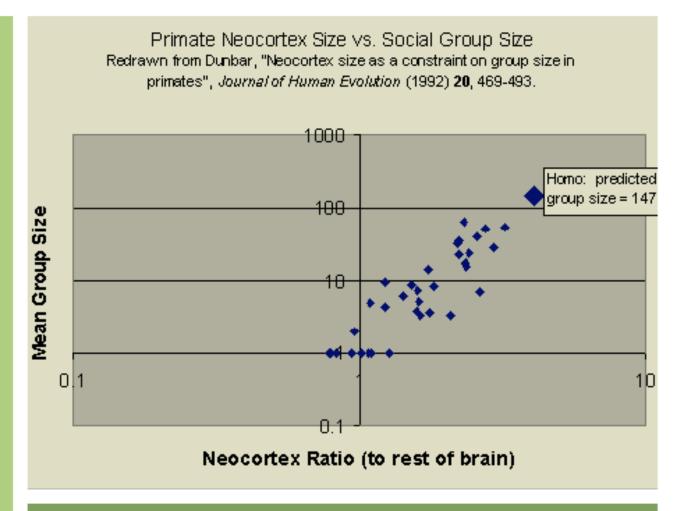
▶ Dr. Robin Dunbar







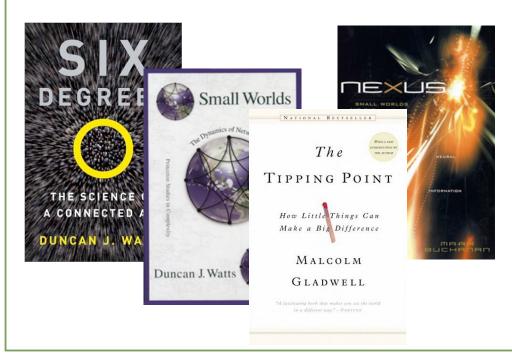
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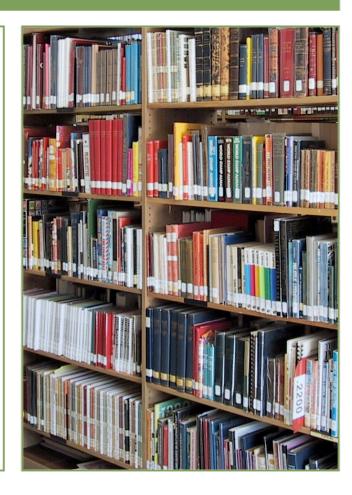


Groups Size & Neocortex Ratio



- Dr. Robin Dunbar
- ► Gladwell, Watts, Buchanan, et al.







or "groups don't scale"









Survival Groups & Unstructured Trust

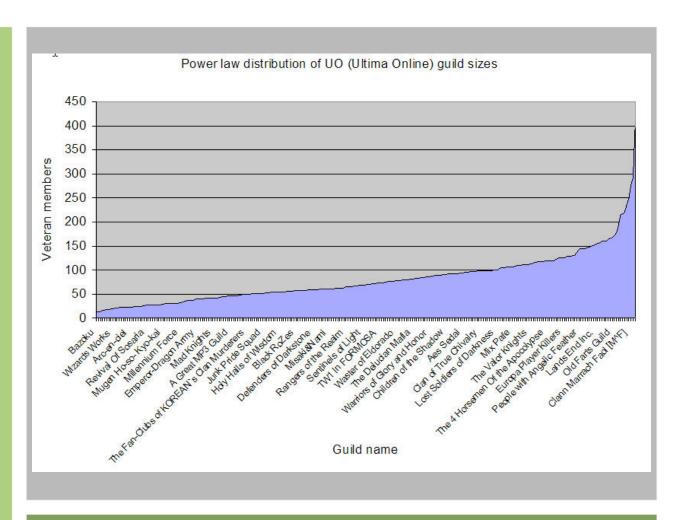


- ▶ Dr. Robin Dunbar
- ► Gladwell, Watts, Buchanan, et al.
- ► So what are the limits to group size?





or ''groups don't scale''

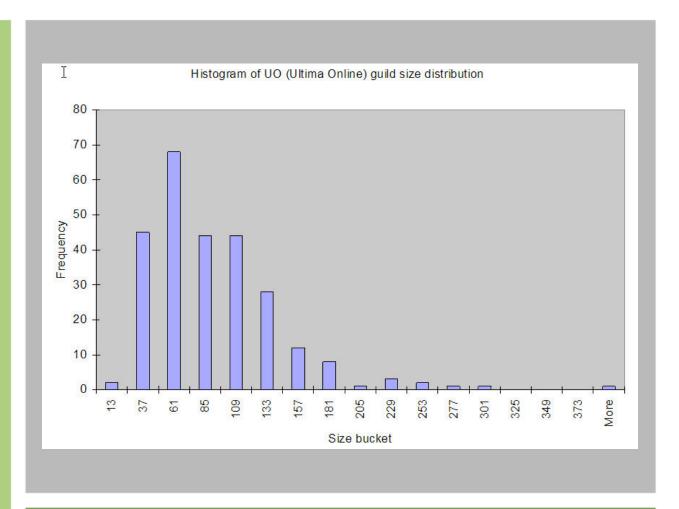


Ultima Online

Sizes of Guilds



or ''groups don't scale''

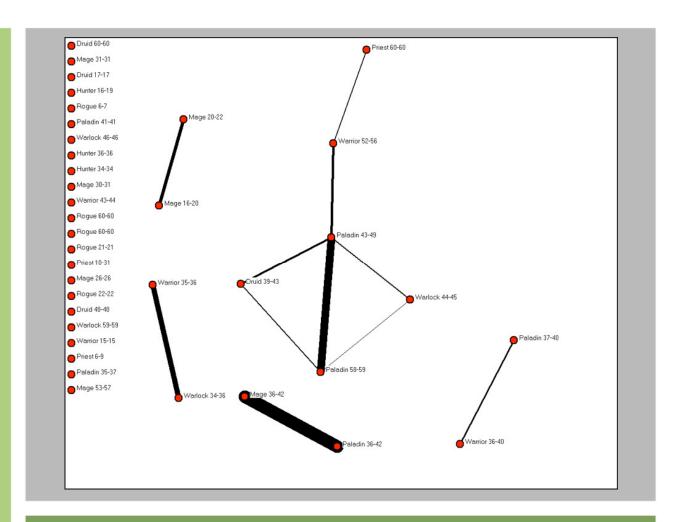


Ultima Online

Histogram of Sizes of Guilds



or "groups don't scale"

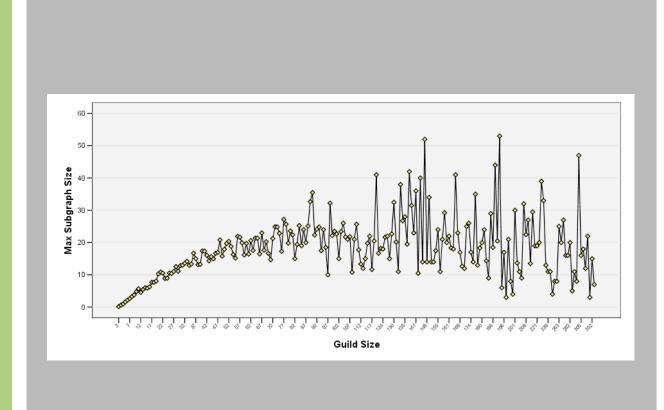


World of Warcraft

Subgraph Map of a Guild



or "groups don't scale"

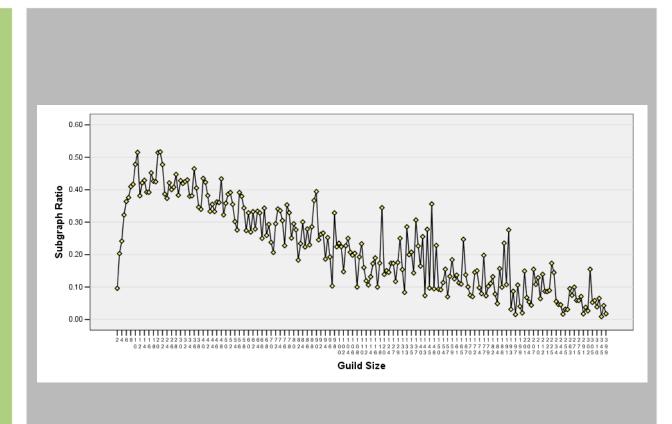


World of Warcraft

Max Subgraph Size of all Guilds



or "groups don't scale"

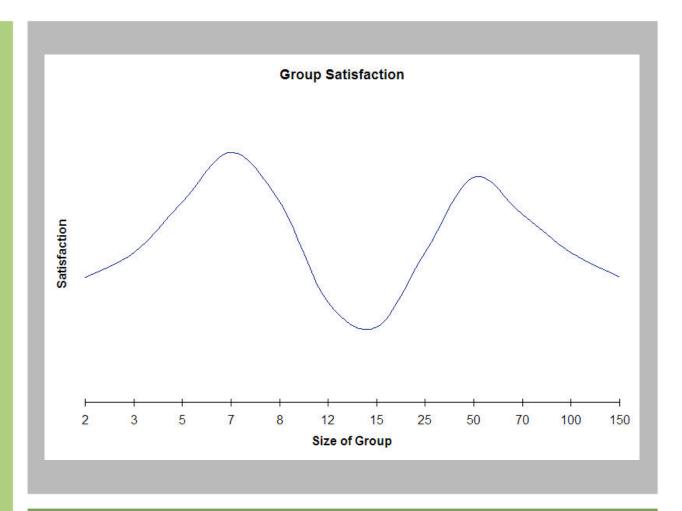


World of Warcraft

Subgraph Ratio of all Guilds



or "groups don't scale"



Group Satisfaction

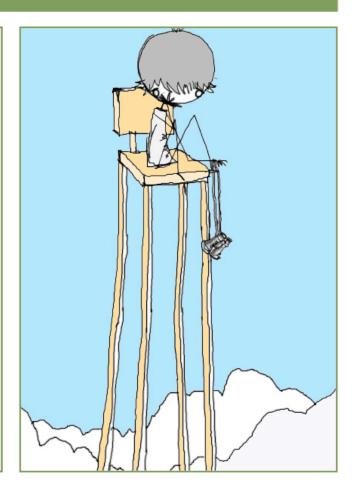


- Dr. Robin Dunbar
- ► Gladwell, Watts, Buchanan, et al.
- ► So what are the limits to group size?
- ► Group size problems





- ► Too Few People
 - ► Insufficient critical mass
 - ► Unable to sustain conversation
 - ► Feels like you are alone
 - ► Groupthink
 - ► Echo Chamber



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Concept: Group Size Problems

- ► Too Few People
 - ► Insufficient critical mass
 - ► Unable to sustain conversation
 - ► Feels like you are alone
 - ► Groupthink
 - ► Echo Chamber
- ► Too Many People
 - ► Too noisy, not enough signal
 - Lack of trust, unequal trust
 - ► Cliques & bad gossip
 - ► Inappropriate politics
 - ▶ Other social contract failures
 - ▶ Flames
 - ► Trolls
 - ► Tragedy of the commons



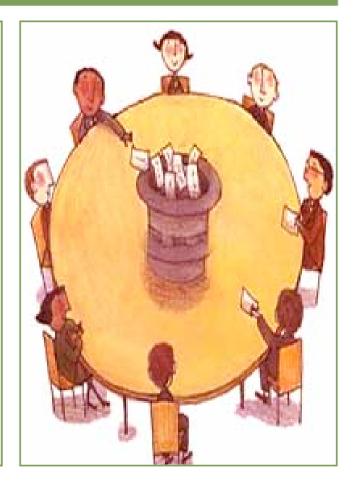


- Dr. Robin Dunbar
- ► Gladwell, Watts, Buchanan, et al.
- ► So what are the limits to group size?
- ► Group size problems
- Appropriate social software for different group sizes



Concept: Appropriate Size

- ► Small Groups (2-12 active, best for 4-9 active)
 - ► Chat Room
 - ► Teleconference w/Backchannel
 - ► Cooperative Editor
 - ▶ Discussion List Flat
 - ▶ Blogs Shared only to Private
 - ▶ Blogs Group Authored





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 - ▶ Blogs Shared only to Private
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- ► Medium Groups (13-150 active, best for 25-80 active)
 - ► Instant Message
 - ► Avatar Chat
 - ▶ Discussion List Threaded
 - ▶ Wiki Single Workspace

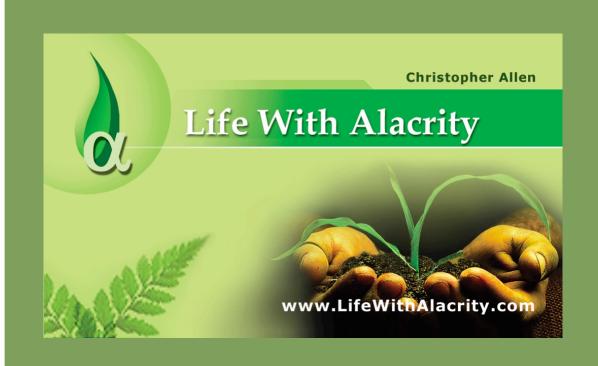


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 - ► Instant Message
 - ► Avatar Chat
 - ▶ Discussion List Threaded
 - Wiki Single Workspace
- ► Large Groups (150+ active)
 - ► Discussion List Reputation Filterered (i.e. SlashDot)
 - ▶ Wiki Multiple Workspaces
 - ▶ Blog Public
 - Social Network





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