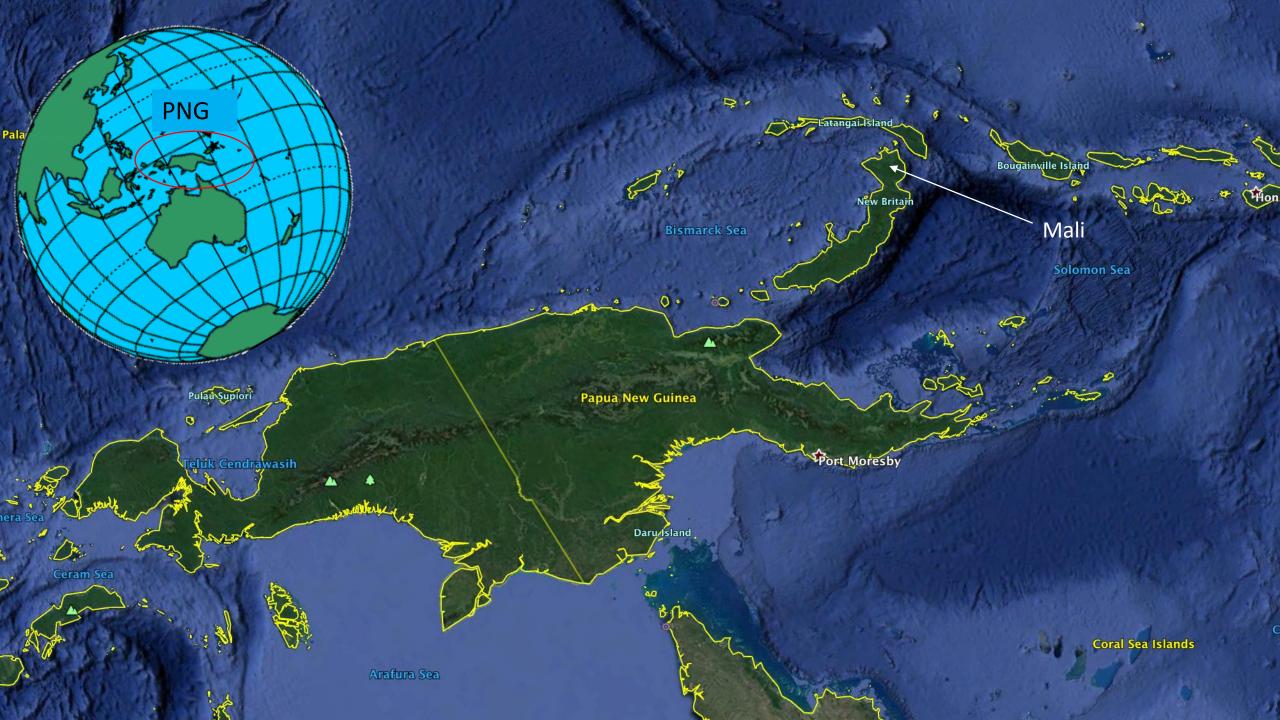
Social Glue and the Collective Brain

> Harvey Whitehouse University of Oxford







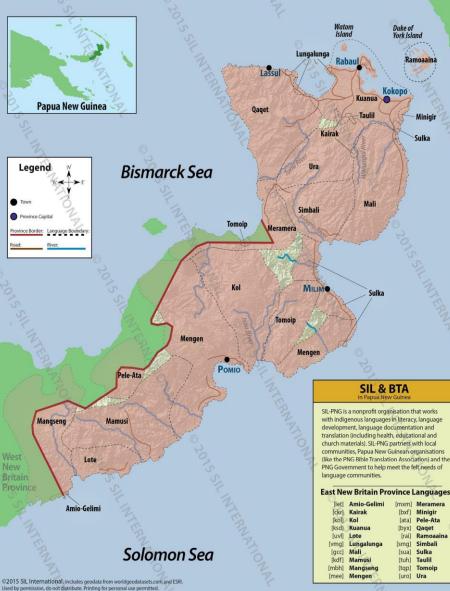




TEN COMMANDMENTS I AM THE LORD THY GOD, ... THOU SHALT HAVE NO OTHER GODS BEFORE ME THOU SHALT NOT MAKE UNTO THEE ANY GRAVEN IMAGES THOU SHALT NOT TAKE THE NAME OF THE LORD THY GOD IN VAIN REMEMBER THE SABBATH DAY. TO KEEP IT HOLY HONOR THY FATHER AND THY MOTHER VΤ THOU SHALT NOT KILL 3711 THOU SHALT NOT COMMIT ADULTERY VIII THOU SHALT NOT STEAL IX THOU SHALT NOT BEAR FALSE WITNESS AGAINST THY NEIGHBOR X THOU SHALT NOT COVET THY NEIGHBOR'S GOODS EXODUS 20:1-17



East New Britain Province Language Map





- Collective fund
- Aid posts
- Cash crops
- Secession
- No new technology required
- Catalysts: ritual & decalogue



Small-scale group bonding still persists, continuing to motivate violent selfsacrifice in much smaller groups

Building framework to understand and manage these processes

Two kinds of collective brain

Imagistic



doctrinal

Imagistic

- Low-frequency/ high-arousal rituals
- Rituals are remembered for years afterwards:
 - Prompting reflection on meanings
 - Forming part of the essential personal self
- Sharing these experiences > intense cohesion with relational group
- Inefficient spread (localised/fragmented)
- Useful in high-risk pursuits (e.g. warfare, large game hunting)



Doctrinal

- High frequency rituals
 - deviations readily detected/suppressed
 - authoritative doctrine standardized
- Doctrines codified in oratory/text:
 - one-to-many transmission
 - rapid/efficient spread
 - orators rise above common herd



- 'Imagined communities':
 - Large anonymous groups
 - diffuse cohesion based on categorical ties
- Capacity to amass resources:
 - Small contributions to the collective pot can produce cumulatively large centralized funds

Human Relations Area

Files

Cultural information for education and research

Home	eHRAF Databases »	Resources »	HRAF Research »	Cross-Cultural Research »	About HRAF »



eHRAF Highlights





HRAF's 2015 Year in Review and 2016 Preview Happy 2016! Another year has flown by here at HRAF....

Full Article \rightarrow

Welcome to HRAF

The rituals

database:

644 rituals

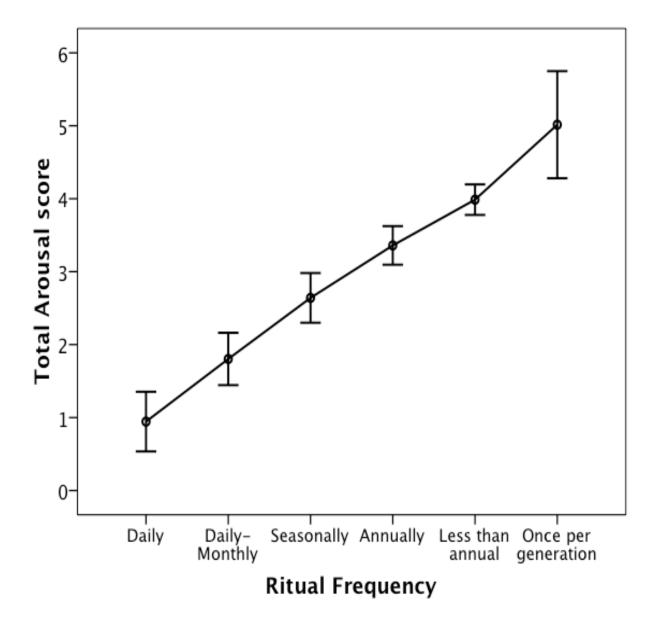
74 cultures

Founded in 1949 at Yale University, the Human Relations Area Files, Inc. (HRAF) is an internationally recognized organization in the field of cultural anthropology. HRAF's mission is to encourage and facilitate the cross-cultural study of human culture, society, and behavior in the past and present. HRAF produces two online databases: eHRAF World Cultures and eHRAF Archaeology, and other resources for teaching and research.

Find out what researchers and educators <u>have to</u> <u>say about using eHRAF</u>.

Access eHRAF Databases

Search...





Atkinson, Quentin D. and Whitehouse, Harvey (2010). The cultural morphospace of ritual form: Examining modes of religiosity cross-culturally. *Evolution and Human Behavior*. Vol. 32, No.1: pp 50-62.

Ritual, agriculture, and the collective brain

agricultural intensity

ritual frequency

regional homogeneity

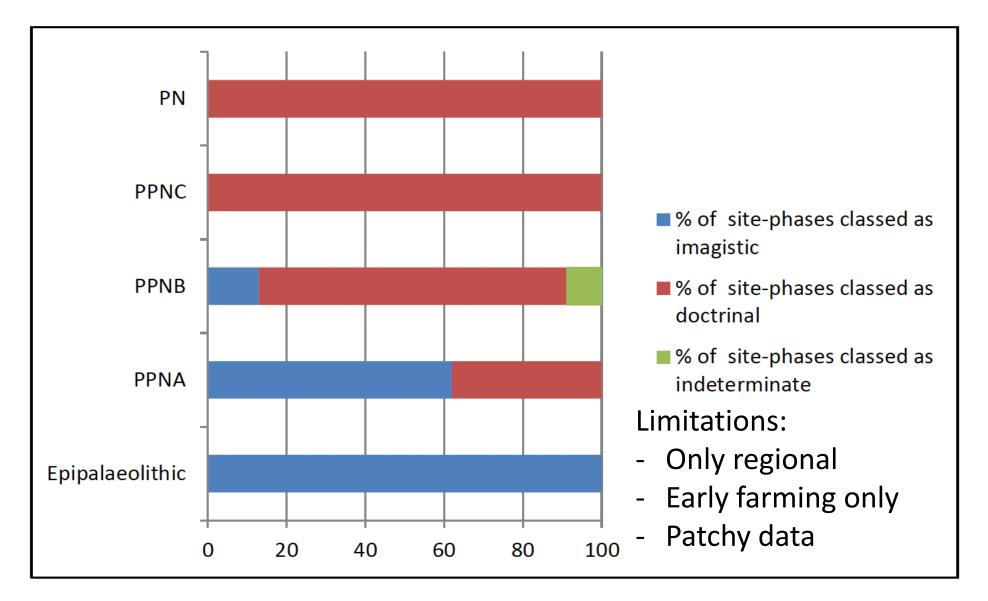
social differentiation

imagistic rituals

Small cohesive groups

hunting





Gantley, Michael, Amy Bogaard, and Harvey Whitehouse (2018). Material Correlates Analysis (MCA): An Innovative way of Examining Questions in Archaeology Using Ethnographic Data. *Advances in Archaeological Practice*. 6(4): 328-341. DOI:1.1017/11p.2018.9



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Using Open Source Geographic Data to Model Ancient Resource **Distributions**



What is Seshat?

Seshat periodization: how it's done

By Edward Turner February 6, 2018

Share:



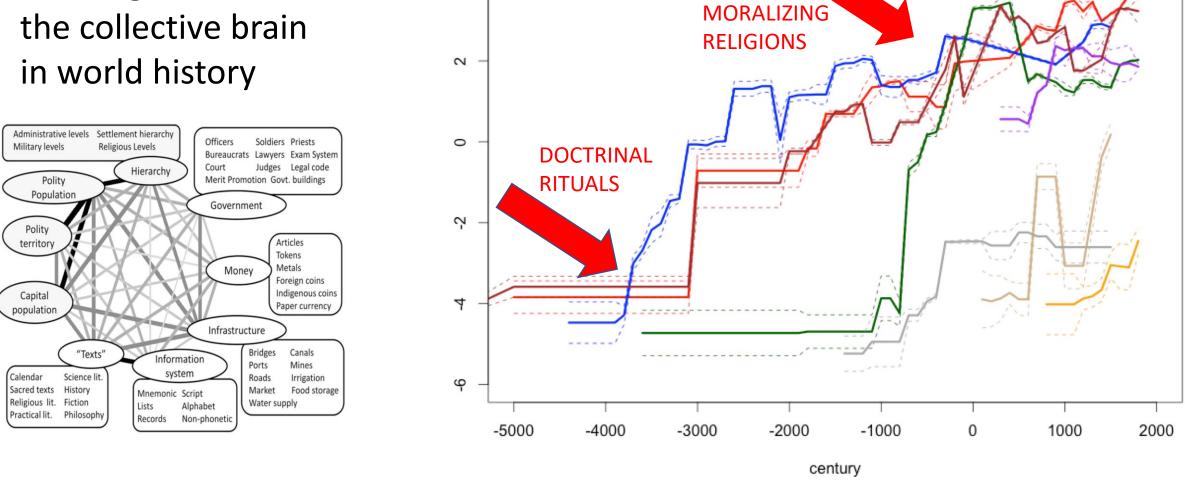
Agriculture ۲

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Advantages:

- Global and not just regional
- Covers the past 10,000 years

Tracking the rise of



4

Peter Turchin, Thomas E. Currie, Harvey Whitehouse, et al. (2018). Quantitative Historical Analysis Uncovers a Single Dimension of Complexity that Structures Global Variation in Human Social Organization. *Proceedings of* the National Academy of Sciences of the United States of America (PNAS). 115(2) E144-E151.

O Sign in BBC

Episodes

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Rituals continue to unite us

Studying contemporary groups means we can investigate the psychological mechanisms using surveys and experiments

Behind the Extraordinary Rituals

EXTRAORDINARY

Minisodes

Quiz



What is a ritual? The power of rituals by Harvey Whitehouse: by Tuppence Stone: **Chief Consultant** Series Producer

crowd

Capturing a face in the

by Toby Strong: Director

of Photography



A desert wedding with armed guards by Rob Sullivan: Producer

forgotten hat



Resurrection and Facebook by Claire Thompson: Assistant Producer



Ritual bloodshed and a your soul by Usha Amin: by Tom Mustill: Producer Researcher



Losing your hair to save



Why would you do this? by Harvey Whitehouse: **Chief Consultant**

A race against time

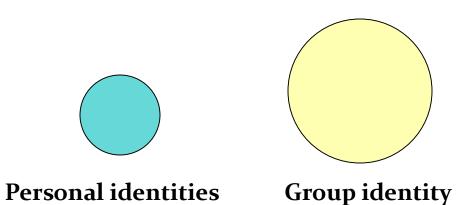
by Madalena Boto: Researcher

Social Identity Theory and the Collective Brain

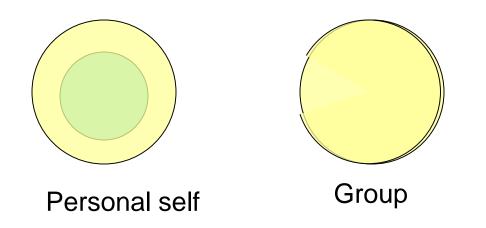
We all have two types of identities:

- Personal identities: refer to qualities that make us distinctive as individuals
- Group identities: align us with social groups

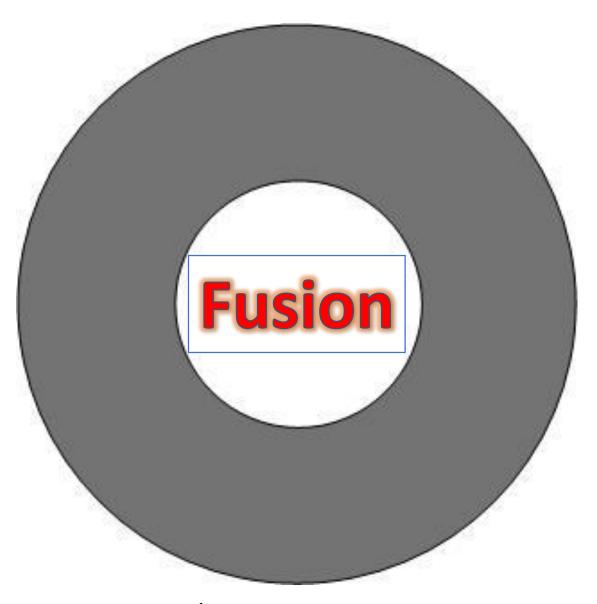
Most people see their personal and social identities as somewhat separate



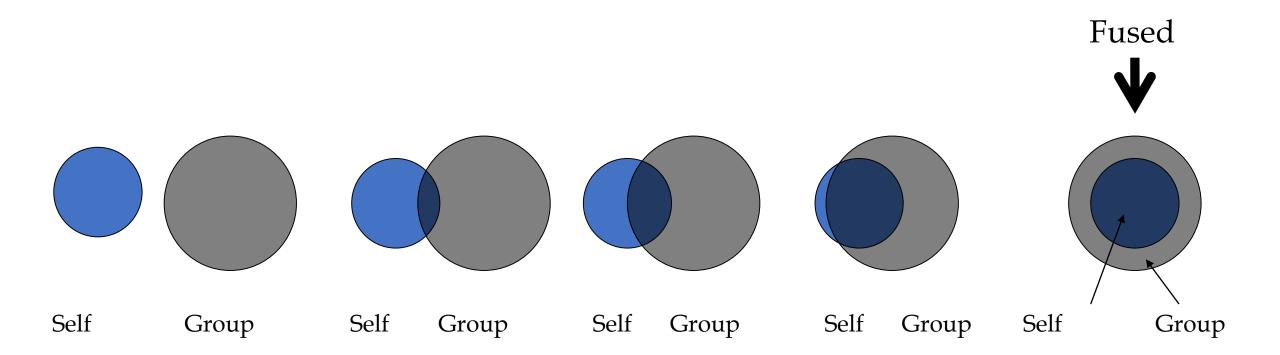
Identification with groups is de-personalising



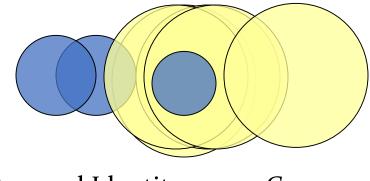
Hydraulic relationship of personal and group identity



Swann, William B., Jolanda Jensen, Ángel Gómez, Harvey Whitehouse and Brock Bastian (2012). When Group Membership Gets Personal: A theory of identity fusion. *Psychological Review*, Vol. 119, No. 3, pp 441–456.



Identity fusion: Involves the union of personal and social identity



Personal Identity Fusion Group





If fused, any attack on the group feels personal

Expressed willingness to fight and die for the group

But does fusion motivate *actual* self-sacrifice?

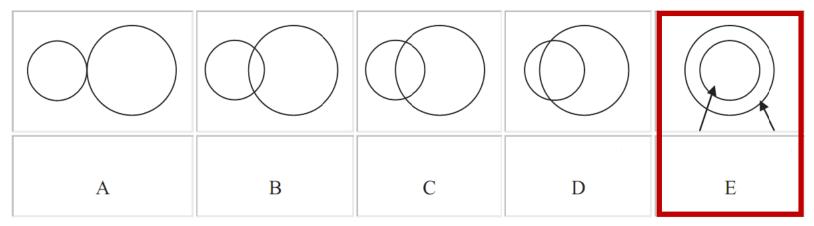






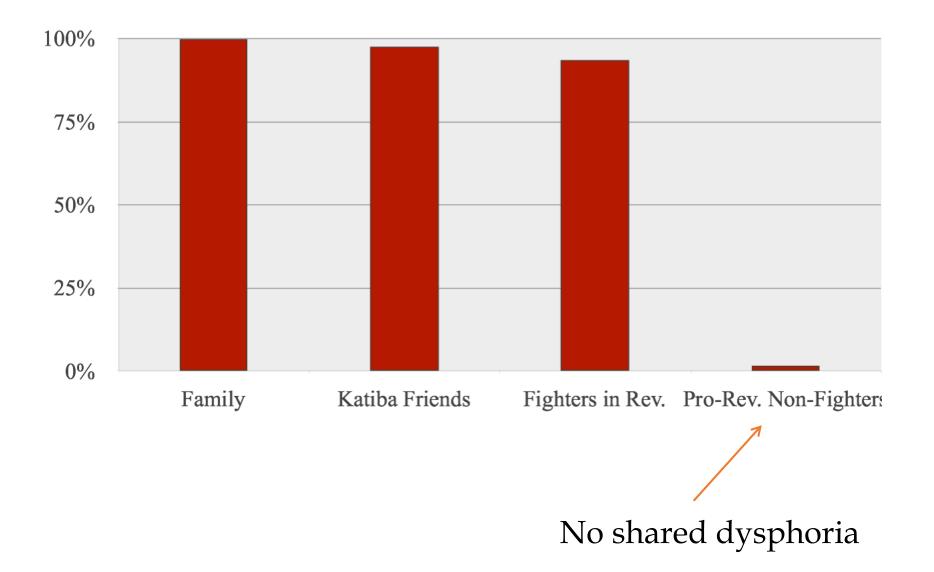
Which of the following pictures best represents your relationship with___?

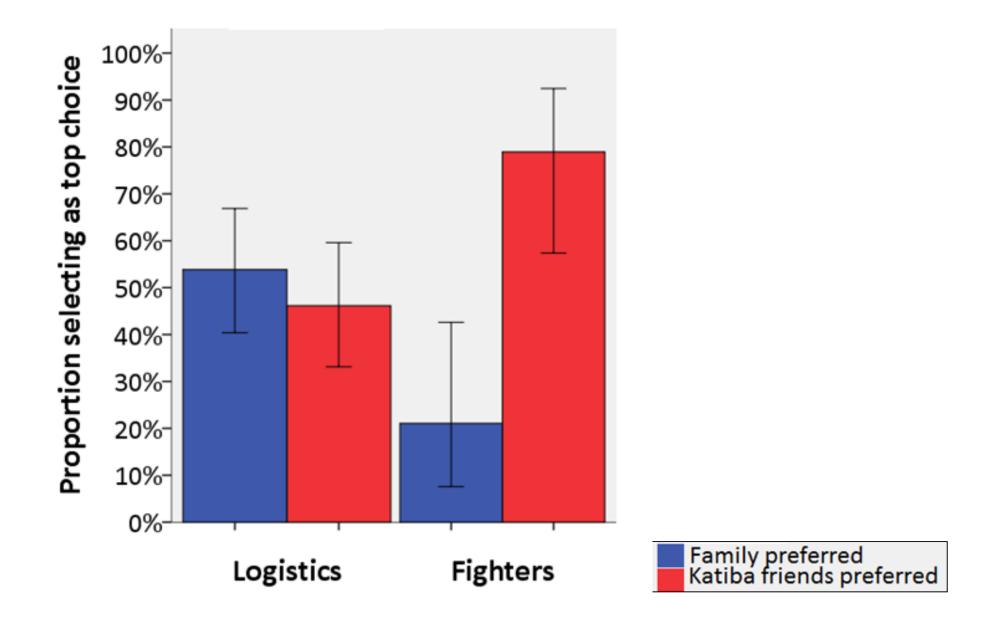
- your family?
- closest friends in your katiba?
- people [you] never met from other katibas who fought in the revolution?
- pro-revolutionary men in Libya who didn't fight?



Fused

Fusion with Family, Friends, Fighters, and Non-Fighters





Whitehouse, Harvey, Brian McQuinn, Michael Buhrmester, and William B. Swann (2014). Brothers in Arms: Libyan revolutionaries bond like Family. *Proceedings of the National Academy of Sciences*.

Exploring practical applications...



We may want our armed forces to stand by each other to the bitter end but what about street gangs or terrorist cells? How do we want to use our collective brains?

Can violent groups be de-fused?

- Re-framing autobiographical memories
- Weakening the conviction of shared experience



Can fusion be harnessed to tackle crime?

Many football fans are fused to club

If clubs promoted law-abiding values, could this help criminals to 'go straight'?

David Dein (Arsenal FC and the FA) thinks so...

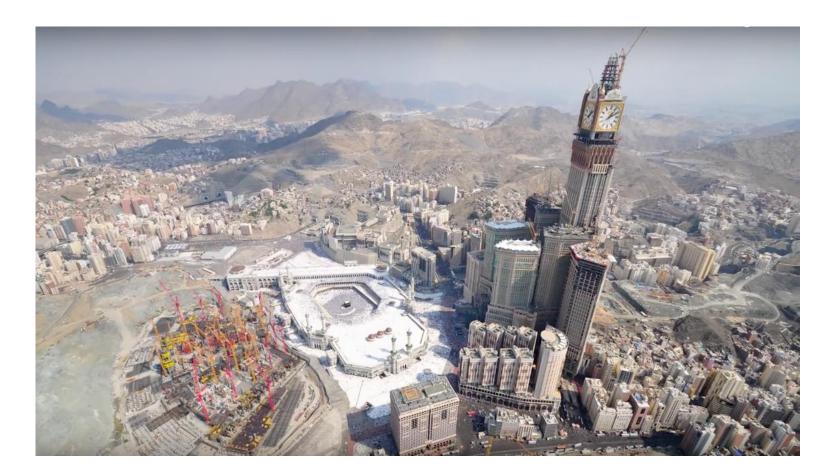


Can fusion in religion be harnessed to save the planet? How can we use the collective brain to do this?



- 7 billion believers vs only 500 million atheists
- All world religions provide scriptural support for stewardship of the planet
- Example: Sikh treeplanting

Are we making the most of our collective brain?



Super-cooperators

- Dark side: Cooperation can be used to build industries that pollute the planet and deplete resources or to wage ever more destructive wars
- But cooperation can also be used to make the world more peaceful and prosperous

Are there any moral rules we can all agree on?



The universal moral compass

- help your group
- help your family
- return favours
- be brave
- defer to superiors
- divide resources fairly
- respect others' property



Can we harness global morality to address global problems?

How about conservation?

Oliver Scott Curry, Daniel Austin Mullins, Harvey Whitehouse. Is It Good to Cooperate? Testing the Theory of Morality-as-Cooperation in 60 Societies. *Current Anthropology*, 2019; 60 (1): 47 DOI: <u>10.1086/701478</u> How universal morality and our collective brain can support conservation

- Group: e.g. harnessing fusion in religion
- Family: e.g. protecting the futures of our children and grandchildren
- Heroism: e.g. let's wage war against climate change
- Deference: e.g. respect for religious leaders and teachings
- Fairness: e.g. we have to share the earth with millions of other species
- Property: e.g. humans evolved recently other species have prior possession

How well are we doing at applying these moral arguments?

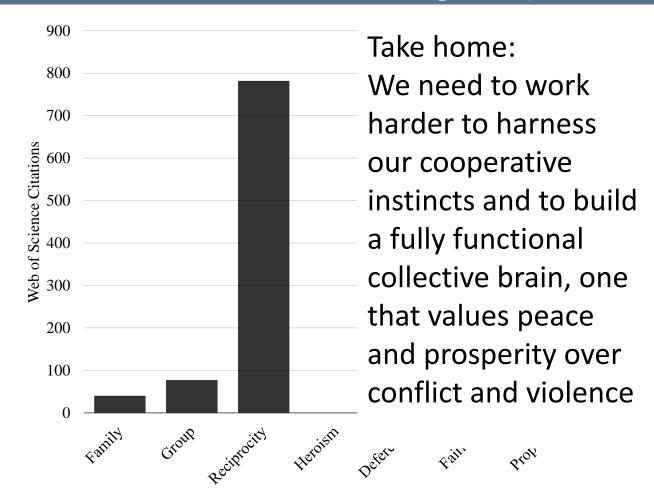
Web of Science



The world's largest publisher-neutral citation index and research intelligence platform

- We combed through the academic literature on cooperative conservation
- We found 910 citations in Web of Science

Curry, O., Hare, D., Hepburn, C. Johnson, D.P.. Buhrmester, M. D. Whitehouse, H, & Macdonald, D. W., (In Press). Cooperative Conservation: Seven Ways to Save the World. *Conservation Science and Practice*



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