Explaining Atheism: Wave 2 Codebook

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Welcome

** This is a living document as is not necessarily complete.**

A timestamped final codebook will be published alongside the dataset when this is released

Welcome to the codebook for the second of the Explaining Atheism project. Here you will find all the information about what is in the accompanying dataset. This is a more focussed examination of variables tested in wave 1 (see here) across more countries.

Data

This dataset is being collected via international surveys in Brazil, Japan, China, the United States, Denmark annut the UK.

The dataset is comprised of two surveys of possible explanations of belief and non-belief, with the same belief measures included in both surveys. Each survey is run in a nationally representative sample (age, sex, region) of 1250 participants in each of the six countries.

Additional Information

All information about the project, including scorings scripts for each measures used, is available on our Figshare page upon release, along with on my personal GitHub. This includes links to pre-registrations, materials and the data itself.

Welcome

If you have any questions or want any further information feel free to contact me at c.russell@qub.ac.uk, or get in touch via my GitHub or Twitter linked on the top left!

Part I.

Survey 1

1. Rebelliousness

Cluster: Morals/Values

1.1. Measure

The rebelliousness measure is a custom measure devised to examine the subscales pro-active rebelliousness and reactive rebelliousness identified by McDermott (2001). After wave 1 we exluded what we termed the "Activism" subscale and only included the "Trolling" subscale in this round.

Modifications

1.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and state to what extent they apply to you. There are no right or wrong answers and your responses remain anonymous.

1. Rebelliousness

Items

Qlabel	${\bf Subscale}$	question
reb_01	Trolling	I find it exciting to poke fun at people
reb_02	Trolling	I find it exciting to poke fun at authority
reb_03	Trolling	I experience a thrill when disobeying authority
reb_04	Trolling	I experience an urge to disobey social rules

Coding

This question naire follows our standard coding for extent based measures, with To No Extent At All = 1, and To a Great Extent = 7.

1	2	3	4	5	6	7
To No Extent At All	To a Slight Extent	To a Mild Extent	To a Moder- ate Extent	To an Appreciable Extent	To a Considerable Extent	To a Great Extent

No items are reverse coded

1.2.1. Scoring

The following variables are derived from this measure.

2. CREDs

Cluster: Socialisation

2.1. Measure

The measure is a further development of the CREDs measure used by Lanman & Buhrmester (2017).

Modifications

The CRED measures that we use vary across the countries within our survey, as such the following sections are subset by nation. Specifically we have different questions for the historically Christian nations (Brazil, Denmark, United Kingdom, United States), Japan, and China, and we have nation specific examples in some cases.

In this round we added an additional question on perceived parental sincerity- cred_32.

2.2. Implementation

Question wording

Question Text

- intro The following questions ask about experiences during your upbringing that relate to God.
- cred_01These questions ask about your perceptions of your primary
- caregiver or caregivers (i.e., parents or guardians). Please answer
- cred_06each of the following according to your overall impression of your caregiver(s) on the following scale:
- ${\it cred_07Stand\ alone\ question}$
- cred_26These questions ask about your perceptions of your local area
- growing up (i.e., hometown, school). Please answer each of the
- cred_31following according to your overall impression of your caregiver(s) on the following scale:

Items

The question items were as follows:

Qlabequestion	response
cred_101 what extent did your caregivers visit places sacred to God	extent
(e.g. temple, church, synagogue, mosque)?	
cred_T2 what extent did your caregivers engage in	extent
volunteer/charity work associated with their devotion to God.	
(e.g. Habitat for humanity, Salvation Army, Catholic Relief	
Services, local religious charities)?	
cred_T03 what extent did your caregivers give financial donations	extent
to Godly causes (e.g. to churches, emples, mosques, charities,	
etc.)?	
cred_ T4 what extent did your caregivers make personal sacrifices	extent
as part of their devotion to God (e.g. fasting, abstaining from	
alcohol and caffeine, giving away wealth, etc.)?	

Qlabequestion	response
cred_ T5 what extent did your caregivers perform acts of devotion to God in the home (e.g. Bible readings, visible prayer, etc.)?	extent
cred_ T6 what extent do you think their devotion to God influenced important decisions in their lives (e.g. marriage, divorce, moving, changing jobs, having children, etc.)?	extent
cred_H2w sincere did you feel your caregivers were in their devotion to God?	sincerity
cred_07Did you attend or participate in any groups devoted to God] you were growing up? (e.g. churches, religious organisations, camps, etc.) If yes, you will have the ability to answer for 2 different groups below.	yes/no
cred_0&Please name/describe the first group	open
cred_0Did this group have leadership figures such as priests, pastors, imams, head counsellors, rabbis, gurus, etc.?	yes/no
cred_10How sincere did you feel the leaders of this group were in their devotion to God?	sincerity
cred_1ffo what extent did the leaders of this group make personal sacrifices as part of their devotion to God? (e.g. fasting, celibacy, abstaining from alcohol and/or caffeine)	extent
cred_12How sincere did you feel the members of this group were in their devotion to God?	sincerity
cred_13To what extent did members of this group engage in charitable work together?	extent
cred_14To what extent did members of this group express emotion during group gatherings?	extent
cred_13How often did members of this group appear to be in altered states of consciousness such as speaking in tongues, trance, or possession?	frequency

2. CREDs

cred_16To what extent would members of this group wear particular clothes or clothing styles?	extent
cred 17REPEAT CRED 08 - 16	_
- 25	
cred_26What percentage of people in your hometown/city do	percentage
you think believed in God?	
cred_27To what extent did believers in God in your hometown	extent
demonstrate their beliefs in everyday life?	
cred_28How sincere did you feel the believers in God in your	sincerity
hometown were in their devotion to God?	
cred_29What percentage of people in your high school do you	percentage
think believed in God?	
cred_30To what extent did the believers in God in your high	extent
school demonstrate their beliefs in everyday life?	
cred 31How sincere did you feel the believers in God in your	sincerity
high school were in their devotion to God?	J

2.2.1. Country Specific Variations:

Coding

The above questions had a number of different response options, with no reverse coding:

2.2.1.1. Yes/No

2.2. Implementation

0	1
No	Yes

2.2.1.2. Frequency

1	2	3	4	5	6	7
Never	Very Infre-	Infrequ	uentl§ome	timeFrequ	entlyVery Fr	e- Always
	quently				quently	

2.2.1.3. Extent

1	2	3	4	5	6	7
To No Extent						To a Great
At All						Extent

2.2.1.4. Sincerity

1	2	3	4	5	6	7
Completely Insincere	Very Insincere	Insin	cereNeu	tralSinc	·	Completely Sincere

2.2.1.5. Percentage

0 -100%

$2. \ CREDs$

2.2.2. Scoring

The following variables are derived from this measure:

3. Normativity of Religion

3.1. Measure

Modifications

3.2. Implementation

Question wording

Participants are presented with the following text:

People are a part of a number of groups that affect their lives, such as nation-states, ethnic groups, companies, friend/peer groups, and hobby groups (e.g. sports/music fandoms). For these groups, being a good, respected member often comes with expectations. Below, we will ask you how important certain personal qualities are to being a good, respected member of the groups to which you belong.

Along with subscale specific text:

Subscale	text	response
Nation	The following questions will ask you about your nation. There are no right or wrong answers and your responses remain	extent

3. Normativity of Religion

Subscale	text	response
Ethnic	The following questions will ask you about	extent
	the ethnic group with which you identify	
	(e.g. Black British, White (other), Han,	
	Japanese, Pacific Islander). There are no	
	right or wrong answers and your responses	
	remain anonymous.	
Friends/peers	The following questions will ask you about	extent
	your friendship/ peer group. There are no	
	right or wrong answers and your responses	
	remain anonymous.	
Choose own	The following questions will ask you about	extent
	a hobby or interest group that is important	
	to you (e.g. music, fashion, gaming	
	communities). There are no right or wrong	
	answers and your responses remain	
	anonymous.	

Items

The question items were as follows, where $\left[\text{COUNTRY} \right]$ is the name of the country:

Qlabel	Subscale	question	response
norm_01	Nation	To what extent is it expected for a citizen of [COUNTRY] to	extent
norm_02	Nation	believe in God? To what extent is it expected for a citizen of [COUNTRY] to perform rituals honouring God?	extent

Qlabel	Subscale	question	response
norm_03	Nation	To what extent is it expected for a citizen of [COUNTRY] to belong to a religion?	extent
norm_04	Ethnic	To what extent is it expected of people in your ethnic group to believe in God?	extent
norm_05	Ethnic	To what extent is it expected of people in your ethnic group to perform rituals honouring God?	extent
norm_06	Ethnic	To what extent is it expected of people in your ethnic group to belong to a religion?	extent
norm_07	Friends/peer	rsTo what extent is it expected amongst your friends to believe in God?	extent
norm_08	Friends/peer	rsTo what extent is it expected amongst your friends to perform rituals honouring God?	extent
norm_09	Friends/peer	rsTo what extent is it expected amongst your friends to belong to a religion?	extent
norm_10	Choose own	To what extent is it expected for members of the hobby or interest group most important to you to believe in God?	extent
norm_11	Choose own	To what extent is it expected for members of the hobby or interest group most important to you to perform rituals for God?	extent

3. Normativity of Religion

Qlabel	Subscale	question	response
norm_12	Choose own	To what extent is it expected for members of the hobby or interest group most important to you to belong to a religion?	extent

Coding

This question naire follows our standard coding for extent based measures, with To No Extent At All = 1, and To a Great Extent = 7.

1	2	3	4	5	6	7
To No Extent At All	To a Slight Extent	To a Mild Extent	To a Moder- ate Extent	To an Appreciable Extent	To a Considerable Extent	To a Great Extent

No items are reverse coded

3.2.1. Scoring

4. Collectivism

4.1. Measure

The collectivism measure used was that of Triandis (1994), available in Gelfand & Realo (1999).

Modifications

For consistency with our other measures we used a 7-point likert scale for agreement, where the original measure used a 9-point scale.

4.2. Implementation

Question wording

Participants read the following text:

We want to know if you agree or disagree with the following statements. The statements sometimes refer to your 'group,' which refers to your group of friends or any other group that you are involved in. Read each one carefully. Indicate your agreement or disagreement with the statement by using the following scale:

4. Collectivism

Items

Qlabel	question
ic_01	It is important for me to maintain harmony within my group
ic_02	I would sacrifice an activity that I enjoy very much if my family did not approve of it.
ic_03	Children should be taught to place duty before pleasure.
ic_04	My happiness depends very much on the happiness of those around me.
ic_05	The well-being of my group is a very important concern for me
ic_06	I really like to cooperate with others
ic_07	I usually sacrifice my self-interest for the benefit of my group
ic_08	Before making a decision, I like to consult with many others.
ic_09	Children should feel honored if their parents receive a distinguished award
ic_10	If any of my relatives were in financial difficulty, I would help them even if it made my life difficult.
ic 11	If a member of my group gets a prize, I would feel proud.
ic 12	Sharing little things with my group makes me very happy
ic 13	I feel we should keep our aging parents with us at home
ic_14	To me, pleasure is spending time with others
ic_15	I hate to disagree with others in my group
ic_16	I would do what would please my family, even if I detested the activity

Coding

This questionnaire used our standard response scale for agreement.

1	2	3	4	5	6	7
strongly	moderate	lyslightly	neither	slightly	moderate	elytrongly
dis-	$\operatorname{disagree}$	dis-	agree nor	agree	agree	agree
agree		agree	disagree			

No items are reverse coded

Scoring

The following variables were derived from this measure

4.3.

5. Existential Insecurity

Cluster: Motivational

5.1. Measure

The initial existential insecurity measures were derived from those used by Baimel et al. (2022) and by Willard & Cingl (2017).

Modifications

The food security measure from Baimel et al. (2022) was combined with financial and physical security from Willard & Cingl (2017), these were asked for 'recently' and 'for the forthcoming months'.

In this wave we only included questions pertaining to childhood.

5.2. Implementation

Question wording

The question wording was as follows:

5. Existential Insecurity

Questions	Question Text
es_15 - es_21	When growing up did you:

Items

The question items were as follows:

Existential Security

Qlabel	question
es_15	worry that your household may not able to buy or
	produce enough food to eat?
es_16	feel that your household may not be able to afford to buy
	items you need
es_17	worry that your household may not have enough money
es_18	worry about members of your household losing their job
es_19	feel you will be safe walking alone in your local area after
	dark
es_20	worry about being burgled
es_21	worry about being a victim of violent crime

Coding

1	2	3	4	5	6	7
never	very infre- quently	infrequent	lyometimes	s frequently	very frequently	always

es_19 is reverse coded

5.2.1. Scoring

The following variables are derived form this measure:

6. Non-theistic Socialisation

Cluster: Socialisation

6.1. Measure

Modifications

6.2. Implementation

The Non-theistic Socialisation measure that we use vary across the countries within our survey, as such the following sections are subset by nation. Specifically we have different questions for the historically Christian nations (Brazil, Denmark, United Kingdom, United States), and for Japan and China.

Question wording

6. Non-theistic Socialisation

Questions	Question Text
intro	To what extent did important people in your upbringing speak against the idea that God exists? That is, to what extent, adding it all up, did the important people in your life – such as your parents, teachers, and church officials (if any) – do the things listed below as you were growing up?

Items

The items were as follows:

Qlabel	question	response
nts_01	State that God does not exist?	extent
nts_02	State that prayers to God do not work?	extent
nts_03	Mock or joke about people's religious belief?	extent
nts_04	State that belief in God is not necessary for morality?	extent
nts_05	State that one should not be religious?	extent
nts_06	State that there are no good reasons to believe in God?	extent
nts_07	State that religious belief does more harm than good in the world?	extent
nts_08	State that religious practices are irrational?	extent

Coding

This measure uses our standard response scale for extent.

6.2.0.1. Extent

1	2	3	4	5	6	7
To No Extent At All						To a Great Extent

No items were reverse coded

6.2.1. Scoring

The following variables were derived from this measure:

6.3.

7. Religious Emphasis

7.1. Measure

7.2. Implementation

The Religious Emphasis measure that we use vary across the countries within our survey. Specifically we have different question wording for the historically Christian nations (Brazil, Denmark, United Kingdom, United States), Japan, and China.

Question wording

Quest@msstion Text

intro To what extent did you have an upbringing devoted to God? That is, to what extent, adding it all up, did the important people in your life – such as your parents, teachers, and church officials (if any) – do the things listed below as you were growing up?

7.3. Items

The items were as follows:

7. Religious Emphasis

Qlabehuestion	response
re_01Review the teachings of Christianity, Judaism, Islam,	extent
Hinduism or another similar tradition at home?	
re_02Emphasize that you should read scripture or books	extent
associated with Christianity, Judaism, Islam, Hinduism or	
another similar tradition?	
re_03Discuss moral do's and don'ts in relation to God?	extent
re_04Tell stories about God?	extent
re_05Talk about the afterlife?	extent
re_06Emphasise that spiritual matters were of high importance?	extent
re_07Relate stories about God to contemporary life?	extent
re_08Teach you to obey the wishes of God?	extent
re_09Teach you to obey the persons who act as representatives of	extent
God (e.g. priests, ministers, rabbis, imams, etc.)?	

Coding

This measure used our standard response scale for extent.

1	2	3	4	5	6	7
To No	To a	To a	To a	To an Ap-	To a Con-	To a
Extent	Slight	Mild	Moder-	preciable	siderable	Great
At All	Extent	Extent	ate	Extent	Extent	Extent
			Extent			

No items are reverse coded

7.3.1. Scoring

The following variables were derived from this measure.

8. Social Desirability

Cluster: Motivational

8.1. Measure

To measure social desirability we use is the impression management subscale of the balanced Inventory of Desirable Responding Short Form (BIDR-16) from Hart, Ritchie, Hepper, & Gebauer (2015) . This itself is an abbreviated version of the larger 40-item BIDR measure which can be found here.

Modifications

The BIDR-16 used a truth based Likert scale. As with other measures we have standardized this to be a 7-point scale with anchors and response items consistent with the other truth-based Likert scales we used in the project.

The original BIDR measure asked participants to write a numbered response indicating the degree to which each statement is true. For consistency with other measures used, and the method of administration, we ask participants to respond by selecting their response.

8.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and say to what degree they are true or untrue for you. There are no right or wrong answers and your responses remain anonymous.

Items

Qlabel	question
sd_01	I sometimes tell lies if I have to
sd_02	I never cover up my mistakes
sd_03	There have been occasions when I have taken
	advantage of someone
sd_04	I sometimes try to get even rather than forgive and
	forget
sd_05	I have said something bad about a friend behind
	his/her back
sd_06	When I hear people talking privately, I avoid
	listening
sd_07	I never take things that don't belong to me
sd_08	I don't gossip about other people's business

Coding

This question naire follows our standard coding for agreement based measures, with absolutely untrue = 1, and absolutely true = 7.

1	2	3	4	5	6	7
absolutel	y mostly	somewhat	can't	somewhat	mostly	absolutely
untrue	untrue	untrue	v	true	true	true
			or false			

Items sd_01 , sd_03 , sd_04 , and sd_05 are reverse coded

8.2.1. Scoring

The following variables are derived from this measure:

9. Meaning in Life

Cluster: Motivational

9.1. Measure

To examine need for meaning we used The Meaning in Life Questionnaire (MLQ) by Steger, Frazier, Oishi, & Kaler (2006). The original scale has a two factor structure, with the subscales noted below.

Modifications

The truth-based Likert scale in the MLQ is the standard 7-point truth scale we used throughout the project so this was not altered.

We used the original question wording for the MLQ.

9.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and rate how strongly you agree or disagree. There are no right or wrong answers and your responses remain anonymous.

9. Meaning in Life

9.2.1. Items

Meaning in Life Questionnaire

Qlabel	Subscale	question
mlq_01	presence	I understand my life's meaning.
mlq_02	search	I am looking for something that makes
		my life feel meaningful.
mlq_03	search	I am always looking to find my life's purpose.
mlq_04	presence	My life has a clear sense of purpose
mlq_05	presence	I have a good sense of what makes my
		life meaningful.
mlq_06	presence	I have discovered a satisfying life purpose.
mlq_07	search	I am always searching for something that
		makes my life feel significant.
mlq_08	search	I am seeking a purpose or mission for my
		life.
mlq_09	presence	My life has no clear purpose.
mlq_10	search	I am searching for meaning in my life.

9.3. Coding

The Meaning in Life Questionnaire (mlq $_$ items) used our standard response scale for truth:

1	2	3	4	5	6	7
absolutely	mostly	somewhat	can't	somewhat	mostly	ab solutely
untrue	untrue	untrue	say true or false	true	true	true

Item mlq_09 is reverse coded

9.4. Scoring

Part II.

Survey 2

10. Anthropomorphism

10.1. Measure

Modifications

The original measure used by Neave, Jackson, Saxton, & Hönekopp (2015) questions pertaining to childhood and adulthood experiences. For the sake of brevity only questions pertaining to adulthood were included.

For consistency with the other agreement based measures used in the project the anchors and response items were altered to be a 7-point Likert scale.

10.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and rate how strongly you agree or disagree. There are no right or wrong answers and your responses remain anonymous.

Items

$10.\ Anthropomorphism$

Qlabel	question
anth_01	I sometimes wonder if my computer deliberately runs more slowly after I have shouted at it
anth_02	On occasions I feel that my computer/printer is being deliberately awkward
anth_03	I sometimes wonder if my personal possessions appreciate it when I have given them a good clean
anth_04	On occasion I feel that the weather conditions are being deliberately bad in order to ruin a social event
$anth_05$	I do think that certain cars have a specific personality
anth_06	If I accidentally break one of my favourite possessions I make sure that I apologise to it for my clumsiness
anth_07	I think that some trees are friendly while others have an air of menace
anth_08	I sometimes think that if my computer/printer is made to feel happy and/or wanted, then they will be less likely to malfunction
$anth_09$	I sometimes feel that the sea can be angry
anth_10	Part of the reason why I picked a new car/electrical item was because when I first saw it I felt that it had a friendly personality

Coding

This question naire follows our standard coding for agreement based measures, with strongly disagree = 1, and strongly agree = 7.

1	2	3	4	5	6	7
strongly	moderatel	lyslightly	neither	slightly	moderate	lystrongly
disagree	$\operatorname{disagree}$	$\operatorname{disagree}$	agree	agree	agree	agree
			nor			
			$\operatorname{disagree}$			

No items are reverse coded

10.2.1. Scoring

The following variables were derived from this measure

11. Mentalizing

Cluster: Cognitive Biases

11.1. Measure

The Mentalizing measure used was the EQ-Short (Wakabayashi et al., 2006), which is an abbreviated version of the original Empathy Quotient measure (Baron-Cohen & Wheelwright, 2004).

11.1.1. Modifications

In contrast with other agreement based measures we used, the selected mentalizing measure used a unique scoring system, and as such was not altered to be consistent with our other Likert measures.

The wording of the question was altered to reflect the manner of administration ("select" your answer instead of the original "circle")

11.2. Implementation

Question wording

Participants read the following text:

11. Mentalizing

Please read each of the following statements carefully and rate how strongly you agree or disagree. There are no right or wrong answers and your responses remain anonymous.

Items

Qlabel question

- mnt 01 can easily tell if someone else wants to enter a conversation.
- mnt_02 really enjoy caring for other people
- mnt_03 find it hard to know what to do in a social situation
- mnt_04 often find it difficult to judge if something is rude or polite
- mnt_03n a conversation, I tend to focus on my own thoughts rather than on what my listener might be thinking
- mnt_06 can pick up quickly if someone says one thing but means another.
- mnt_07t is hard for me to see why some things upset people so much
- mnt_08 find it easy to put myself in somebody else's shoes
- mnt_0\mathbf{1} am good at predicting how someone will feel.
- mnt_10 am quick to spot when someone in a group is feeling awkward or uncomfortable
- mnt_1II can't always see why someone should have felt offended by a remark
- mnt 12 don't tend to find social situations confusing.
- mnt_13Other people tell me I am good at understanding how they are feeling and what they are thinking
- mnt_14 can easily tell if someone else is interested or bored with what I am saying
- mnt_15Friends usually talk to me about their problems as they say that I am very understanding.
- mnt_16 can sense if I am intruding, even if the other person doesn't tell me

Qlabel question

- mnt_17Other people often say that I am insensitive, though I don't always see why
- mnt_18 can tune into how someone else feels rapidly and intuitively.
- mnt_1g can easily work out what another person might want to talk about
- mnt 20 can tell if someone is masking their true emotion
- mnt_21 am good at predicting what someone will do
- mnt 22 tend to get emotionally involved with a friend's problems

Coding

The mentalizing measure follows a bespoke 4 point agreement scale and uses a the following coding scheme:

definitely disagree	slightly disagree	slightly agree	definitely agree
0	0	1	2

Items 03, 04, 05, 07, 11, and 17 are reverse coded.

11.2.1. Scoring

The following variables are derived from this measure:

12. Vividness of Mental Imagery

Cluster: Cognitive Biases

12.1. Measure

The measure of vividness of mental imagery we use is the Vividness of Mental Imagery scale Marks (1973).

Modifications

12.2. Implementation

For this questionnaire each subscale appeared on its own page with the subscale specific text above

Question wording

Participants read the following text:

 ${\rm Items\, Text}$

${\rm Items}\,{\rm Text}$

 $vvi_0\mathbb{F}or$ each scenario try to form a mental picture of the people,

- objects, or setting. Consider carefully the vividness of your visual
- vvi_16magery experience. Does some type of image come to mind? Rate how vivid the image is using the 5-point scale. If you do not have a visual image, rate vividness as '1'. Only use '5' for images that are as lively and vivid as real seeing.

Please try to form the mental image of the following items with your eyes *closed*.

additional text was also presented prior to each subscale:

Subscale	
(items)	Text
Relative or friend (vvi_01 - vvi_04) Natural scene: Rising sun (vvi_05 -	For items 1 to 4, think of some relative or friend whom you frequently see (but who is not with you at present) and consider carefully the picture that comes before your mind's eye. Visualize a rising sun. Consider carefully the picture that comes before your mind's eye.
vvi_08) Shop (vvi_09 - vvi_12) Natural scene: Lake (vvi_13 - vvi_16)	Think of the front of a shop which you often go to. Consider the picture that comes before your mind's eye. Finally, think of a country scene which involves trees, mountains, and a lake. Consider the picture that comes before your mind's eye.

Items

QlabelSubscale	question
	question
vvi_01Relative or	The exact contour of face, head, shoulders, and
friend	body.
vvi_02Relative or	Characteristic poses of head, attitudes of body,
friend	etc.
vvi_03Relative or	The precise carriage, length of step, etc. in
friend	walking.
vvi_04Relative or	The different colors worn in some familiar clothes.
friend	
vvi_05Natural	The sun is rising above the horizon into a hazy
scene: Rising	sky.
sun	
vvi_06Natural	The sky clears and surrounds the sun with
scene: Rising	blueness.
sun	
vvi_07Natural	Clouds. A storm blows up, with flashes of
scene: Rising	lightening.
sun	
vvi_08Natural	A rainbow appears.
scene: Rising	
sun	
vvi_0 Shop	The overall appearance of the shop from the
	opposite side of the road.
vvi_10Shop	A window display including colors, shape, and
	details of individual items for sale.
vvi_11Shop	You are near the entrance. The color, shape, and
	details of the door.
vvi_12Shop	You enter the shop and go to the counter. The
	counter assistant serves you. Money changes
	hands.
vvi_13Natural	The contours of the landscape.
scene: Lake	

12. Vividness of Mental Imagery

QlabelSubscale	question
vvi_14Natural	The color and shape of the trees.
scene: Lake	
vvi_15Natural	The color and shape of the lake.
scene: Lake	
vvi_16Natural	A strong wind blows on the tree and on the lake
scene: Lake	causing waves.

Coding

This questionnaire follows a unique scoring scheme for vividness

1	2	3	4	5
Perfectly clear and as vivid as normal vision	Clear and rea- sonably vivid		_	No image at all, you only "know" that you are thinking of an object

No items are reverse coded

12.2.1. Scoring

The following variables are derived from this measure:

12.3.

13. Dualism

Cluster: Cognitive Biases

13.1. Measure

The Dualism measure used is an abbreviation of The Dualism Scale by Stanovich (1989). As with previous research the scale has been shortened for brevity (Willard & Cingl, 2017; Willard, Cingl, & Norenzayan, 2020).

13.1.1. Modifications.

For consistency with the other agreement based measures used in the project the anchors and response items were altered to be a 7-point Likert scale

13.2. Implementation

13.2.1. Question wording

Participants read the following text, adapted and shortened from Stanovich (1989):

13. Dualism

Please read each of the following statements carefully and rate how strongly you agree or disagree. There are no right or wrong answers and your responses remain anonymous

Items

Qlabelquestion

- dua 0The mind is not part of the brain but it affects the brain.
- dua_0\(\mathbb{Y}\) hen I imagine a scene in my mind, I am in a state that will forever be beyond explanation by science.
- dua_03The mind is a special form of energy (currently unknown to man) that is in contact with the brain and affects it.
- dua_0\Phi\text{hen people talk about their minds they are really just talking about what their brains seem to be doing.
- dua_05The fact that I can know my own thought processes (that I can introspect) means that my thought processes cannot be just brain processes
- dua_06 the mind is a nonmaterial substance that interact with the brain to determine behavior
- dua OMinds are inside brains but are not the same as brains.
- dua 08ome mental processes have no connection to brain processes
- dua OMental processes are the result of activity in the nervous system
- dua 17 the mind and the brain are two totally separate things

Coding

This questionnaire follows our standard scoring for agreement based measures, with strongly disagree = 1, and strongly agree = 7.

1 2 3 4 5 6 7

strongly	moderatel	yslightly	neither	slightly	modera	telytrongly
disagree	disagree	disagree	agree nor disagree	agree	agree	agree

 dua_04 and dua_09 are reverse coded

13.3. Scoring

13.4. Script

14. Promiscuous Teleology

14.1. Measure

The promiscuous teleology measure we use is the short form of the Teleological Ideas about Nature Scale (TINS), which is an as yet unpublished scale by Kelemen, Brown, Burnham & Rottman (2023, in prep).

PAGE WILL BE UPDATED WHEN THE SCALE IS PUBLISHED

Modifications

14.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and state to what extent you agree. There are no right or wrong answers and your responses remain anonymous.

14. Promiscuous Teleology

Items

Coding

This questionnaire used the standard response scale for agreement ${\tt No}$ items are reverse coded

14.2.1. Scoring

The following variables are derived from this measure:

14.3. Script

15. Thinking Style

Cluster: Cognitive Style

15.1. Measure

We use the original Cognitive Reflection Task by Frederick (2005), and an updated version, the Cognitive Reflection Task 2, from Thomson & Oppenheimer (2016).

Modifications

15.2. Implementation

Question wording

Participants read the following text:

In the following section you will be asked a series of questions. Please do your best to answer as accurately as possible.

Items

15. Thinking Style

Qlabel	question
crt_01	You're running a race and you pass the person in second place, what place are you in?
crt_02	A farmer had 15 sheep and all but 8 died. How many are left?
crt_03	Emily's father has three daughters. The first two are named April and May. What is the third daughter's name?
crt_04	How many cubic feet of dirt are there in a hole that is 3' deep x 3' wide x 3' long?
crt_05	A bat and a ball cost \$1.10 in total. The bat costs \$1.00 more than the ball. How much does the ball cost?
crt_06	If it takes 5 machines 5 min to make 5 widgets, how long would it take 100 machines to make 100 widgets?
crt_07	In a lake, there is a patch of lily pads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half of the lake?

Coding

This questionnaire uses open responses for crt items.

For scoring responses are labelled as either "Correct", "Intuitive" or "Incorrect". Correct and intuitive answers are as follows:

'we also code any typos/variations accordingly for all items, see rows 1:3 as illustration)

15.2. Implementation

Item	Correct (including variations/typos)	Intuitive (!!CHECK THESE!!)
crt_01	second (or 2nd, 2 or any variation therein)	first (or 1st, 1 or any variation of)
crt_02	8 (or eight or other variations of/typos)	7 (or seven or variations of)
crt_03	Emily (or typos of)	June (or typos)
crt_04	0	3
crt_04	5 cents	10 cents
crt_05	5 minutes	1 minute
crt_06	47 days	24 days

15.2.1. Scoring

The following variables are derived from this measure:

16. Existential Insecurity

Cluster: Motivational

16.1. Measure

The initial existential insecurity measures were derived from those used by Baimel et al. (2022) and by Willard & Cingl (2017).

Modifications

The food security measure from Baimel et al. (2022) was combined with financial and physical security from Willard & Cingl (2017), these were asked for 'recently' and 'for the forthcoming months'.

In this wave we only included questions pertaining to childhood.

16.2. Implementation

Question wording

The question wording was as follows:

16. Existential Insecurity

Questions	Question Text
es_15 - es_21	When growing up did you:

Items

The question items were as follows:

Existential Security

Qlabel	question
es_15	worry that your household may not able to buy or
	produce enough food to eat?
es_16	feel that your household may not be able to afford to buy
	items you need
es_17	worry that your household may not have enough money
es_18	worry about members of your household losing their job
es_19	feel you will be safe walking alone in your local area after
	dark
es_20	worry about being burgled
es_21	worry about being a victim of violent crime

Coding

1	2	3	4	5	6	7
never	very infre- quently	infrequent	lyometimes	frequently	very frequently	always

es_19 is reverse coded

16.2.1. Scoring

The following variables are derived form this measure:

17. Tolerance of Ambiguity

Cluster: Cognitive Styles

17.1. Measure

The measure used for tolerance of ambiguity is the Multiple Stimulus Types Ambiguity Tolerance Scale- II (MSTAT-II) by McLain (2009) .

Modifications

17.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and state to what extent you agree with each. There are no right or wrong answers and your responses remain anonymous.

Items

17. Tolerance of Ambiguity

Qlabel	question
at_01	I don't tolerate ambiguous situations well
at_02	I would rather avoid solving a problem that must be
	viewed from several different perspectives
at_03	I try to avoid situations that are ambiguous
at_04	I prefer familiar situations to new ones
at_05	Problems that cannot be considered from just one point
	of view are a little threatening
at_06	I avoid situations that are too complicated for me to
	easily understand
at_07	I am tolerant of ambiguous situations
at_08	I enjoy tackling problems that are complex enough to be
	ambiguous
at_09	I try to avoid problems that don't seem to have only one
	"best" solution
at_10	I generally prefer novelty over familiarity
at_11	I dislike ambiguous situations
at_12	I find it hard to make a choice when the outcome is
	uncertain
at_13	I prefer a situation in which there is some ambiguity

Coding

This question naire uses our standard response scale for agreement, $% \left(1\right) =\left(1\right) \left(1\right)$

1	2	3	4	5	6	7
strongly disagree	moderate disagree	lyslightly disagree	neither agree nor disagree	slightly agree	moderat agree	celystrongly agree

at_01, at_02, at_03, at_04, at_05, at_06, at_09, at_11, and at_12 are reverse coded $\,$

17.2.1. Scoring

The following variables are derived from this measure:

18. Importance of Rationality

Cluster: Cognitive Style

18.1. Measure

Here we include the Importance of Rationality Scale from Ståhl, Zaal, & Skitka (2016)

Modifications

18.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and state to what extent you agree. There are no right or wrong answers and your responses remain anonymous.

INSERT

Items

18. Importance of Rationality

imp_01	It is important to me personally to be skeptical about claims that are not backed up by evidence.
imp_02	It is important to me personally to remain rational and levelheaded even in heated arguments.
imp_03	It is important to me personally to examine traditionally held beliefs using logic and evidence.
imp_04	It is important to me personally that I can justify my beliefs using rational arguments and evidence.
imp_05	It is important to me personally to critically examine my long-held beliefs.
imp_06	It is important to me personally to be a rational person.

Coding

This questionnaire uses our standard agreement scale.

1	2	3	4	5	6	7
strongly disagree	moderate disagree	lyslightly disagree	neither agree nor disagree	slightly agree	moderat agree	selystrongly agree

No items are reverse coded $% \left(1\right) =\left(1\right) \left(1\right$

Scoring

The following variables are derived form this measure:

Part III. Belief Measures

19. ISSP

Cluster: Measuring Belief

19.1. Measure

Modifications

Note ISSP $_03$ was not originally an ISSP question. This is a question created by us and added to this section for practical purposes.

19.2. Implementation

issp_02 only appears if issp_01 = 1 or 2

Qlab@uestion	Response options
Qlab@uestion issp_Which statement comes closes to expressing what you believe about God?	1. I don't believe in God 2. I don't know whether there is a God, and don't believe there is any way to find out 3. I don't believe in a personal God, but I do believe in a Higher Power of some kind 4. I find myself believing in God some of the time, but not at others
	5. While I have doubts, I feel that I do believe in God
	6. I know God really exists and I have no

doubt about it.

7. Don't know

QlabeQuestion

issp_B2re are some examples of how different people who do not believe in God or gods identify themselves. If you had to pick a label, which of these comes closest to how you identify yourself?

Response options

- 1. Spiritual but not religious
- 2. Seeker
- 3. Non-religious
- 4. Atheist
- 5. Agnostic
- 6. Humanist
- 7. Sceptic
- 8. Free thinker
- 9. Rationalist
- 10. Secular
- 11. Christian
- 12. Muslim
- 13. Jewish
- 14. Buddhist
- 15. Hindu
- 16. Daoist
- 17. Shinto
- 18. Confucian
- 19. Other (please specify)

Qlab@uestion	Response options	
issp_W3hich of the following best describes your belief in god?	 Generally speaking, I have always believed in God. Generally speaking, I have never 	
	believed in God. 3. I believed in God in the	
	past, but now I do not. 4. I did not	
	believe in God in the past, but now I do.	

19.3. Scoring

See the Belief Measures landing page for all belief measures variables and their definitions.

20. Religious Identity

20.1. Measure

20.2. Implementation

rid_02 only appears if rid_01 = Yes

Qlabel	Question	Response options
rid_01	Do you regard yourself as belonging to	Yes/No
	a particular religion?	

20. Religious Identity

Qlabel	Question	Response options
rid_02	If yes, which?	1. Protestant
		2. Catholic
		3. Orthodox (e.g. Greek Orthodox, Russian Orthodox)
		4. Sunni
		5. Shiite
		6. Buddhist
		7. Confucian
		8. Daoist
		9. Hindu
		10. Jewish
		11. Shinto
rid_03	Whilst growing up did your primary caregiver belong to a particular religion?	12. Other (please specify) Yes/No

Qlabel	Question	Response options
rid_04	If yes, which?	1. Protestant
		2. Catholic
		3. Orthodox (e.g. Greek Orthodox, Russian Orthodox)
		4. Sunni
		5. Shiite
		6. Buddhist
		7. Confucian
		8. Daoist
		9. Hindu
		10. Jewish
		11. Shinto
rid_05	Whilst growing up did an additional important caregiver belong to a particular religion?	12. Other (please specify) Yes/No

20. Religious Identity

Qlabel	Question	Response options
rid_06	If yes, which?	1. Protestant
		2. Catholic
		3. Orthodox (e.g. Greek Orthodox, Russian Orthodox)
		4. Sunni
		5. Shiite
		6. Buddhist
		7. Confucian
		8. Daoist
		9. Hindu
		10. Jewish
		11. Shinto
		12. Other (please specify)

$20.2.1. \ \mathsf{Scoring}/ \ \mathsf{Coding}$

See the Belief Measures landing page for all belief measures variables and their definitions.

20.3.

21. Religious Practice

Cluster: Measuring Belief

21.1. Measure

Modifications

21.2. Implementation

21. Religious Practice

Qlabel Question	Response options	
rp_01 Apart from weddings and funerals, about how often do you attend religious services these days?	 More than once a week Once a week Once a month Only on special holy days Once a year Less often Never, practically never 	

Qlabel	Question	Response options
rp_02	Apart from weddings and funerals, about how often do you pray?	1. Several times a day
		2. Once a day
		3. Several times each week
		4. Only when attending religious services
		5. Only on special holy days
		6. Once a year
		7. Less often 8. Never, practically never
rp_03	Do you have in your home a shrine, altar, or a religious object on display such as a (BIBLE OR CROSS/ COUNTRY SPECIFIC ITEM)?	1. Yes, for religious reasons
		2. Yes, for non- religious reasons
		3. No

21. Religious Practice

Country Specific Examples

Brazil

rp_03: crucifix or an image of Iemanja

China

rp_03: an ancestor tablet, censer, Buddha statue, or statue of a deity?

Denmark

 rp_03 : a Bible or cross?

Japan

rp_03: butsudan, ihai, or kamidana?

UK

rp_03: cross, icon, mezuzah, or Bible?

USA

rp_03: a cross, icon, mezuzah, Bible, or retablo?

21.2.1. Scoring/ Coding

See the General Belief landing page for all belief measures variables and their definitions.

22. Supernatural Belief

Cluster: Belief Measures

22.1. Measure

Modifications

22.2. Implementation

Question wording

Participants read the following text:

Please read each of the following statements carefully and state to what extent you agree. There are no right or wrong answers and your responses remain anonymous.

22.2.1. Items

Qlabel	question
snb_01 snb_02	There is some sort of life after death Sometime after I die, I expect that I'll be born again in another body.

22. Supernatural Belief

Qlabel	question	
snb_03	The positions of the stars and planets affect people's lives	
snb_04	Some people have mystical powers (e.g. to heal, harm, or bring good luck)	
snb_05	Some objects have mystical powers (e.g. to heal, harm, or bring good luck)	
snb06	There are underlying forces of good and evil in this world.	
snb_07	There exists a universal spirit or life force.	
snb_08	There is a power in the universe that causes good	
	things to happen to people who behave morally and	
	bad things to happen to people who behave	
	immorally.	
snb_09	Most significant life events are meant to be and	
	happen for a reason.	
snb_10	Supernatural beings of some kind exist	
snb_11	There exist supernatural beings that are good/kind (e.g. COUNTRY SPECIFIC)	
snb_12	There exist supernatural beings that are harmful.	
	(e.g COUNTRY SPECIFIC)	
snb_13	Some people will be punished after they die	
snb_14	Some people will be rewarded after they die	
snb_15	Making other people envious of you can cause illness or misfortune.	
snb_16	Have you ever felt as though you were connected to a powerful spiritual force?	
snb_17	Do you carry any objects for luck or protection?	

Country Specific Examples

Brazil

22.2. Implementation

snb_11: e.g. angels, nature spirits

snb_12: e.g. demons, ghosts

China

snb_11: e.g. ancestor spirits

snb_12: e.g. ghosts

Denmark

snb_11: e.g. angels, nature spirits

snb_12: e.g. demons, ghosts

Japan

snb_11: e.g. angels, spirits

 $snb_12: e.g. ghosts, monsters$

UK

snb_11: e.g. angels, nature spirits

snb_12: e.g. demons, ghosts

USA

snb_11: e.g. angels, nature spirits

snb_12: e.g. demons, ghosts

22.3. Coding

Items snb_01 - snb_15 use our standard response scale for agreement

1	2	3	4	5	6	7
strongly	moderate	lyslightly	neither	slightly	moderat	telystrongly
$\operatorname{disagree}$	disagree	disagree	agree	agree	agree	agree
			nor			
			disagree			

Item snb_16 uses the following bespoke scale

1	2	3
Yes, I've had an experience like this.	I've had an experience like this, but I didn't associate it with a spiritual force.	No, I've never had an experience like this.

Item snb_17 is a Yes/No response

22.3.1. Scoring

See the General Belief landing page for all belief measures variables and their definitions.

23. General Belief

Cluster: Belief Measures

23.1. Measure

Modifications

23.2. Implementation

Question wording

Participants read the following text:

"The following section will list a number of statements regarding your attitudes towards God, religion, and belief. Please read each and state to what extent you agree. There are no right or wrong answers and your responses remain anonymous."

23.2.1. Items

Qlabel	question
belief_01	I believe that God exists
$belief_02$	It is not possible to know if God exists

23. General Belief

Qlabel	question
conf_01	I am confident that my beliefs about God's existence are
	the right ones.
ar_01	We would all be better off if people left religion behind.
$apth_01$	Whether or not God exists is a question that doesn't
	interest me much
$apth_02$	Whether or not there is an ultimate purpose to life is a
	question that doesn't interest me much.
agn_01	I don't know whether there is a God, and I don't believe
	there is any way to find out.
$mean_01$	For most things in the world, we will never be able to
	discover the real objective truth.

23.3. Coding

This scale uses our standard response scale for agreement

1	2	3	4	5	6	7
strongly	moderate	lyslightly	neither	slightly	modera	telystrongly
$\operatorname{disagree}$	disagree	disagree	agree	agree	agree	agree
			nor			
			disagree			

23.4. Scoring

See the Belief Measures landing page for all belief measures variables and their definitions.

24. Atheist Membership

Cluster: Measuring Belief

24.1. Measure

Modifications

24.2. Implementation

Qlabel	Question	Response options
am_01	Are you currently a member of any atheist, secularist, humanist, or similar organization at a national or local level?	Y/N

24.3. Scoring

See the Belief Measures landing page for all belief measures variables and their definitions.

Part IV.

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