

Human well-being responses to species' traits

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Supplementary Information

Table 1 | Indicator analysis of effect traits for each type of wellbeing and positive or negative valence. Function ‘*indicators*’ in the Indicspecies R package⁷³. Analysis identifies effect traits that are significantly associated with each type of wellbeing. Traits are listed in order of decreasing indicator value (between 0 and 1, where 1 = all mentions of the effect trait are in relation to this wellbeing type only, and mentions of the effect trait are in every elicitation of this wellbeing type). Only effect traits with indicator values (Obs IV) significantly larger than random ($p < 0.05$) are listed, based on a permutation test⁷³.

Wellbeing type	Trait	Obs IV	<i>p</i> value
Positive physical	sounds	0.185	0.005
	dawn chorus	0.170	0.005
	wind in trees	0.150	0.005
	creaking	0.135	0.005
	calling	0.100	0.005
	cracking	0.096	0.005
	orange	0.095	0.005
	rustling	0.074	0.005
	bird sounds	0.073	0.005
	birdsong	0.047	0.005
	chirping	0.043	0.005
	rough	0.024	0.005
	damp (smell)	0.009	0.025
Positive emotional	colourful	0.119	0.005
	yellow-brown	0.096	0.005
	bird sounds	0.080	0.005
	sound	0.074	0.005
	pink	0.067	0.005
	tweeting	0.062	0.005
	chirping	0.046	0.005
	pine	0.041	0.005
	red	0.040	0.005
	yellow	0.037	0.005
	purple	0.030	0.005
	variety (texture)	0.021	0.005
	black	0.020	0.005
	dark-grey black	0.019	0.005
	variety (colour)	0.017	0.005
	growing (plants)	0.014	0.015
	green	0.013	0.010

	pinks	0.011	0.010
	furry	0.007	0.005
Positive cognitive	scaly	0.180	0.005
	leaf drop (bare branches)	0.174	0.005
	snapping	0.174	0.005
	calling	0.089	0.005
	sound	0.081	0.005
	smooth	0.056	0.005
	bright green	0.016	0.005
	spongy	0.016	0.005
	wavy	0.016	0.005
	soft	0.013	0.005
	growing (plants)	0.012	0.030
	damp (smell)	0.008	0.030
	decaying	0.005	0.020
Positive social	brown	0.254	0.005
	yellow	0.141	0.005
	red	0.032	0.005
	dark	0.013	0.015
Positive spiritual	sounds	0.157	0.005
	using habitat (trees)	0.147	0.005
	nature sounds	0.141	0.005
	whooshing	0.141	0.005
	whistling	0.139	0.005
	falling leaves	0.117	0.005
	greys	0.113	0.005
	rustling	0.094	0.005
	bird sounds	0.092	0.005
	white	0.064	0.005
	sound	0.063	0.005
	colours	0.062	0.005
	calling	0.060	0.005
	cracking	0.060	0.005
	orange	0.060	0.005
	wind in trees	0.047	0.040
	tweeting	0.036	0.015
	birdsong	0.035	0.010
	spiky	0.033	0.005
	bright	0.019	0.005
	variety (texture)	0.013	0.010
	variety (colour)	0.011	0.020
	soft	0.009	0.020
	communicating	0.006	0.040
	colour	0.004	0.045
Negative physical	growing (fungi clumped)	0.921	0.005
	pollinating (plants/trees)	0.013	0.010

	smell	0.010	0.015
Negative emotional	leaf drop (seasonal)	0.411	0.005
	orange-red	0.017	0.040
	prickly	0.017	0.045
	red	0.008	0.045
Negative spiritual	leaf drop (seasonal)	0.274	0.005
	tweeting	0.079	0.005
	chirping	0.060	0.005

Table 2 | Example quotes of wellbeing and valence combinations. Quotes (italics) originated from participants ($n = 194$) that attended the four workshops in 2019.

Wellbeing	Valence	Example quote
Physical	Positive	<i>It was just so nice and peaceful and relaxing</i>
Physical	Negative	<i>It makes me feel sick and I'm allergic to them as well</i>
Emotional	Positive	<i>It just is lovely to see it all; it makes me happy</i>
Emotional	Negative	<i>So that just unsettled me a little bit</i>
Spiritual	Positive	<i>That was quite magical. I found it very peaceful.</i>
Spiritual	Negative	<i>I felt it more eerie.</i>

Table 3 | List of species' Latin names (*italics*) and corresponding common names used in analyses. $n = 403$ species

Latin name	Common name
<i>Acanthis cabaret</i>	lesser redpoll
<i>Acanthis flammea</i>	common redpoll
<i>Accipiter gentilis</i>	goshawk
<i>Accipiter nisus</i>	sparrowhawk
<i>Acer campestre</i>	field maple
<i>Acer platanoides</i>	Norway maple
<i>Acer pseudoplatanus</i>	sycamore
<i>Adalia bipunctata</i>	two-spot ladybird
<i>Adalia decempunctata</i>	ten-spotted ladybird
<i>Adiantum capillus-veneris</i>	maidenhair fern
<i>Aegithalos caudatus</i>	long-tailed tit
<i>Aesculus hippocastanum</i>	horse chestnut
<i>Aglais io</i>	peacock
<i>Aglais urticae</i>	small tortoiseshell
<i>Agrimonia eupatoria</i>	agrimony
<i>Aix galericulata</i>	mandarin duck
<i>Ajuga reptans</i>	bugle
<i>Allium ursinum</i>	ramsons
<i>Alnus glutinosa</i>	common alder
<i>Amanita muscaria</i>	fly agaric
<i>Anas platyrhynchos</i>	mallard
<i>Anatis ocellata</i>	eyed ladybird
<i>Andrena bicolor</i>	Gwynne's mining bee
<i>Andrena cineraria</i>	ashy mining bee
<i>Andrena fulva</i>	tawny mining bee
<i>Andrena haemorrhoa</i>	orange-tailed mining bee
<i>Andrena scotica</i>	chocolate mining bee
<i>Anemone nemorosa</i>	wood anemone
<i>Annulohypoxylon multifforme</i>	birch woodwart
<i>Anthocharis cardamines</i>	orange-tip
<i>Anthus trivialis</i>	tree pipit
<i>Apatura iris</i>	purple emperor
<i>Apioperdon pyriforme</i>	stump puffball
<i>Apis mellifera</i>	European honey bee
<i>Ardea cinerea</i>	grey heron
<i>Argynnis paphia</i>	silver-washed fritillary
<i>Aricia agestis</i>	brown argus

<i>Armillaria gallica</i>	bulbous honey fungus
<i>Armillaria mellea</i>	honey fungus
<i>Armillaria ostoyae</i>	dark honey fungus
<i>Arum maculatum</i>	lords-and-ladies
<i>Asio otus</i>	long-eared owl
<i>Asplenium scolopendrium</i>	hart's tongue
<i>Athene noctua</i>	little owl
<i>Auricularia auricula-judae</i>	jelly ear
<i>Auricularia mesenterica</i>	tripe fungus
<i>Bellis perennis</i>	common daisy
<i>Betula pendula</i>	silver birch
<i>Betula pubescens</i>	downy birch
<i>Bjerkandera adusta</i>	smoky bracket
<i>Blechnum spicant</i>	hard fern
<i>Bolbitius titubans</i>	yellow fieldcap
<i>Boletus luridiformis</i>	dotted stem bolete
<i>Boletus luridus</i> var. <i>luridus</i>	lurid bolete
<i>Boletus rubellus</i>	ruby bolete
<i>Boletus subtomentosus</i>	suede bolete
<i>Boloria selene</i>	small pearl-bordered fritillary
<i>Bombus hortorum</i>	garden bumblebee
<i>Bombus lapidarius</i>	red tailed bumblebee
<i>Bombus lucorum</i>	white-tailed bumblebee
<i>Bombus pascuorum</i>	common carder bee
<i>Bombus pratorum</i>	early bumblebee
<i>Bombus terrestris</i>	buff-tailed bumblebee
<i>Bombycilla garrulus</i>	waxwing
<i>Branta canadensis</i>	Canada goose
<i>Bromopsis ramosa</i>	hairy brome
<i>Bulgaria inquinans</i>	black bulgar
<i>Buteo buteo</i>	common buzzard
<i>Buxus sempervirens</i>	common box
<i>Byssomerulius corium</i>	netted crust
<i>Calendula officinalis</i>	marigold
<i>Callophry rubi</i>	green hairstreak
<i>Calocera cornea</i>	small stagshorn
<i>Calocera pallidospatulata</i>	pale stagshorn
<i>Calocera viscosa</i>	yellow stagshorn
<i>Calocybe ionides</i>	violet domecap
<i>Caltha palustris</i>	marsh marigold
<i>Cantharellus cibarius</i>	chanterelle

<i>Capreolus capreolus</i>	roe deer
<i>Carduelis carduelis</i>	goldfinch
<i>Carpinus betulus</i>	hornbeam
<i>Castanea sativa</i>	sweet chestnut
<i>Celastrina argiolus</i>	holly blue
<i>Certhia familiaris</i>	treecreeper
<i>Chamaecyparis lawsoniana</i>	Lawson cypress
<i>Chloris chloris</i>	greenfinch
<i>Chlorociboria aeruginascens</i>	green elfcup
<i>Chondrostereum purpureum</i>	silver leaf disease
<i>Chrysosplenium oppositifolium</i>	opposite leaved golden saxifrage
<i>Circaea lutetiana</i>	enchanter's nightshade
<i>Clavulinopsis fusiformis</i>	golden spindles
<i>Claytonia sibirica</i>	pink purslane
<i>Coccinella septempunctata</i>	seven-spot ladybird
<i>Coccothraustes coccothraustes</i>	hawfinch
<i>Coloeus monedula</i>	jackdaw
<i>Columba livia</i>	rock dove
<i>Columba oenas</i>	stock dove
<i>Columba palumbus</i>	woodpigeon
<i>Coprinopsis picacea</i>	magpie inkcap
<i>Cornus sanguinea</i>	dogwood
<i>Cortinarius sanguineus</i>	bloodred webcap
<i>Corvus corax</i>	raven
<i>Corvus cornix</i>	hooded crow
<i>Corvus corone</i>	carrion crow
<i>Corvus frugilegus</i>	rook
<i>Corylus avellana</i>	hazel
<i>Crataegus laevigata</i>	midland hawthorn
<i>Crataegus monogyna</i>	common hawthorn
<i>Craterellus cornucopioides</i>	horn of plenty
<i>Crepidotus mollis</i>	peeling oysterling
<i>Crepidotus variabilis</i>	variable oysterling
<i>Cuculus canorus</i>	cuckoo
<i>Curruca curruca</i>	lesser whitethroat
<i>Cyanistes caeruleus</i>	blue tit
<i>Cyanoboletus pulverulentus</i>	inkstain bolete
<i>Cylindrobasidium laeve</i>	tear dropper
<i>Cytisus scoparius</i>	broom
<i>Dacrymyces stillatus</i>	common jelly spot
<i>Dactylorhiza fuchsii</i>	common spotted orchid

<i>Daedalea quercina</i>	oak mazegill
<i>Daedaleopsis confragosa</i>	blushing bracket
<i>Daldinia concentrica</i>	King Alfred's cakes
<i>Datronia mollis</i>	common mazegill
<i>Dendrocopos major</i>	great spotted woodpecker
<i>Digitalis purpurea</i>	foxglove
<i>Dryobates minor</i>	lesser spotted woodpecker
<i>Dryopteris affinis</i>	scaly male fern
<i>Entoloma dichroism</i>	mealy pinkgill mushroom
<i>Entoloma serrulatum</i>	blue edge pinkgill
<i>Erinaceus europaeus</i>	west European hedgehog
<i>Erithacus rubecula</i>	robin
<i>Euonymus europaeus</i>	spindle
<i>Exidia glandulosa</i>	witches' butter
<i>Exidia nucleata</i>	crystal brain
<i>Exidia thuretiana</i>	white brain
<i>Fagus sylvatica</i>	common beech
<i>Fagus sylvatica f. Purpurea</i>	copper beech
<i>Falco peregrinus</i>	peregrine falcon
<i>Falco subbuteo</i>	hobby
<i>Falco tinnunculus</i>	kestrel
<i>Festuca gigantea</i>	giant fescue
<i>Ficaria verna</i>	lesser celandine
<i>Ficedula hypoleuca</i>	pied flycatcher
<i>Fistulina hepatica</i>	beefsteak fungus
<i>Flammulina velutipes</i>	velvet shank mushroom
<i>Fomes fomentarius</i>	tinder bracket
<i>Fragaria vesca</i>	wild strawberry
<i>Frangula alnus</i>	alder buckthorn
<i>Fraxinus excelsior</i>	common ash
<i>Fringilla coelebs</i>	chaffinch
<i>Fringilla montifringilla</i>	brambling
<i>Fuscoporia ferrea</i>	iron porecrust
<i>Fuscoporia ferruginosa</i>	rusty porecrust
<i>Ganoderma applanatum</i>	artist's bracket
<i>Ganoderma australe</i>	southern bracket
<i>Garrulus glandarius</i>	jay
<i>Geranium robertianum</i>	herb Robert
<i>Geum urbanum</i>	wood avens
<i>Gliophorus psittacinus</i>	parrot waxcap
<i>Gonepteryx rhamni</i>	brimstone

<i>Grifola frondosa</i>	hen of the woods
<i>Hamearis lucina</i>	Duke of Burgundy
<i>Harmonia axyridis</i>	harlequin ladybird
<i>Hedera helix</i>	common ivy
<i>Heterobasidion annosum</i>	root rot
<i>Hyacinthoides non-scripta</i>	bluebell
<i>Hygrocybe chlorophana</i>	golden waxcap
<i>Hygrophoropsis aurantiaca</i>	false chanterelle
<i>Hylotelephium telephium</i>	orpine
<i>Hymenochaete rubiginosa</i>	oak curtain crust
<i>Hypericum androsaemum</i>	tutsan
<i>Hypericum hirsutum</i>	hairy St John's wort
<i>Hypericum pulchrum</i>	slender St John's wort
<i>Hyphodontia sambuci</i>	elder whitewash
<i>Hypholoma fasciculare</i>	sulphur tuft
<i>Ilex aquifolium</i>	common holly
<i>Inonotus hispidus</i>	shaggy bracket
<i>Inonotus radiatus</i>	alder bracket
<i>Juglans nigra</i>	black walnut
<i>Juglans regia</i>	common walnut
<i>Juniperus communis</i>	common juniper
<i>Kuehneromyces mutabilis</i>	sheathed woodtuft
<i>Laccaria amethystina</i>	amethyst deceiver
<i>Lactarius deterrimus</i>	oakbug milkcap
<i>Laetiporus sulphureus</i>	chicken of the woods
<i>Lamium galeobdolon</i>	yellow archangel
<i>Lamium purpureum</i>	red dead nettles
<i>Lapsana communis</i>	nipplewort
<i>Larix decidua</i>	European larch
<i>Lentinus brumalis</i>	winter polypore
<i>Leptidea sinapis</i>	wood white
<i>Leucanthemum vulgare</i>	oxeye daisy
<i>Limenitis camilla</i>	white admiral
<i>Locustella naevia</i>	grasshopper warbler
<i>Lolium perenne</i>	perennial ryegrass
<i>Lonicera periclymenum</i>	honeysuckle
<i>Lophophanes cristatus</i>	crested tit
<i>Loxia curvirostra</i>	crossbill
<i>Loxia pytyopsittacus</i>	parrot crossbill
<i>Loxia scotica</i>	Scottish crossbill
<i>Lullula arborea</i>	woodlark

<i>Luscinia megarhynchos</i>	nightingale
<i>Luzula sylvatica</i>	great wood rush
<i>Lycaena phlaeas</i>	small copper
<i>Lycoperdon excipuliforme</i>	pestle puffball
<i>Lyrurus tetrix</i>	black grouse
<i>Lysimachia nemorum</i>	yellow pimpernel
<i>Malus sylvestris</i>	crab apple
<i>Malus x domestica</i>	apple
<i>Megacollybia platyphylla</i>	whitelaced shank
<i>Melanargia galathea</i>	marbled white
<i>Melitaea athalia</i>	heath fritillary
<i>Mercurialis perennis</i>	dog's mercury
<i>Meripilus giganteus</i>	giant polypore
<i>Milvus milvus</i>	red kite
<i>Motacilla alba</i>	pied wagtail
<i>Muscicapa striata</i>	spotted flycatcher
<i>Mycena acicula</i>	orange bonnet
<i>Mycena adonis</i>	scarlet bonnet
<i>Mycena arcangeliana</i>	angel's bonnet
<i>Mycena pseudocorticula</i>	steely bonnet
<i>Mycena pura</i>	lilac bonnet
<i>Nectria cinnabarina</i>	coral spot
<i>Ochlodes sylvanus</i>	large skipper
<i>Ophrys insectifera</i>	fly orchid
<i>Orchis purpurea</i>	lady orchid
<i>Oudemansiella mucida</i>	porcelain fungus
<i>Panellus mitis</i>	elastic oysterling
<i>Panellus stipticus</i>	bitter oysterling
<i>Papaver somniferum</i>	poppy
<i>Parus major</i>	great tit
<i>Passer domesticus</i>	house sparrow
<i>Passer montanus</i>	tree sparrow
<i>Peniophora quercina</i>	oak crust
<i>Periparus ater</i>	coal tit
<i>Phaeolus schweinitzii</i>	Dyer's mazegill
<i>Phasianus colchicus</i>	pheasant
<i>Phlebia radiata</i>	wrinkled crust
<i>Phlebia tremellosa</i>	jelly rot
<i>Phoenicurus phoenicurus</i>	redstart
<i>Phylloscopus collybita</i>	chiffchaff
<i>Phylloscopus inornatus</i>	yellow-browed warbler

<i>Phylloscopus sibilatrix</i>	wood warbler
<i>Phylloscopus trochilus</i>	willow warbler
<i>Pica pica</i>	magpie
<i>Picea abies</i>	Norway spruce
<i>Picea sitchensis</i>	sitka spruce
<i>Picus viridis</i>	green woodpecker
<i>Pieris brassicae</i>	large white
<i>Pieris napi</i>	green-veined white
<i>Pieris rapae</i>	small white
<i>Pinus contorta</i>	lodgepole pine
<i>Pinus nigra</i>	black pine
<i>Pinus sylvestris</i>	Scot's pine
<i>Piptoporus betulinus</i>	birch polypore
<i>Pleurotus cornucopiae</i>	branching oyster
<i>Pleurotus dryinus</i>	veiled oyster
<i>Pluteus cervinus</i>	deer shield
<i>Pluteus chrysophaeus</i>	yellow shield
<i>Pluteus salicinus</i>	willow shield
<i>Poecile montanus</i>	willow tit
<i>Poecile palustris</i>	marsh tit
<i>Polygonia c-album</i>	comma
<i>Polyommatus icarus</i>	common blue
<i>Polyporus leptcephalus</i>	blackfoot polypore
<i>Polyporus squamosus</i>	dryad's saddle
<i>Populus alba</i>	white poplar
<i>Populus nigra</i>	black poplar
<i>Populus tremula</i>	aspen
<i>Postia caesia</i>	conifer blueing bracket
<i>Postia stiptica</i>	bitter bracket
<i>Postia subcaesia</i>	blueing bracket
<i>Primula auricula</i>	gypsy rose
<i>Primula elatior</i>	oxlip
<i>Primula veris</i>	cowslip
<i>Primula vulgaris</i>	primrose
<i>Prunella modularis</i>	dunnock
<i>Prunus avium</i>	wild cherry
<i>Prunus cerasifera</i>	cherry plum
<i>Prunus cerasus</i>	sour cherry
<i>Prunus domestica</i>	common plum
<i>Prunus padus</i>	bird cherry
<i>Prunus spinosa</i>	blackthorn

<i>Pseudotsuga menziesii</i>	Douglas fir
<i>Psittacula krameri</i>	ring-necked parakeet
<i>Psyllobora vigintiduopunctata</i>	twenty-two spot ladybird
<i>Pteridium aquilinum</i>	bracken
<i>Pyrola minor</i>	common wintergreen
<i>Pyronia tithonus</i>	gatekeeper
<i>Pyrrhula pyrrhula</i>	bullfinch
<i>Quercus cerris</i>	turkey oak
<i>Quercus ilex</i>	holm oak
<i>Quercus petraea</i>	sessile oak
<i>Quercus robur</i>	English oak
<i>Quercus rubra</i>	red oak
<i>Radulomyces confluens</i>	crust fungus
<i>Ramaria stricta</i>	upright coral
<i>Ranunculus acris</i>	meadow buttercup
<i>Ranunculus auricomus</i>	goldilocks buttercup
<i>Ranunculus repens</i>	creeping buttercup
<i>Regulus ignicapilla</i>	firecrest
<i>Regulus regulus</i>	goldcrest
<i>Resupinatus applicatus</i>	smoked oysterling
<i>Resupinatus trichotis</i>	hairy oysterling
<i>Reynoutria japonica</i>	knotweed
<i>Rhamnus cathartica</i>	purging buckthorn
<i>Rhododendron ponticum</i>	rhododendron
<i>Ribes uva-crispa</i>	gooseberry
<i>Rosa canina</i>	dog rose
<i>Rubus fruticosus</i>	bramble
<i>Rumex acetosa</i>	common sorrel
<i>Rumex obtusifolius</i>	dock leaf
<i>Russula atropurpurea</i>	purple brittlegill
<i>Russula claroflava</i>	yellow swamp brittlegill
<i>Russula cyanoxantha</i>	charcoal burner
<i>Russula emetica</i>	sickener
<i>Russula fellea</i>	geranium brittlegill
<i>Russula nitida</i>	purple swamp brittlegill
<i>Russula nobilis</i>	beechwood sickener
<i>Russula rosea</i>	rosy brittlegill
<i>Russula sanguinaria</i>	bloody brittlegill
<i>Russula xerampelina</i>	crab brittlegill
<i>Salix alba</i>	white willow
<i>Salix caprea</i>	goat willow

<i>Salix cinerea</i> subsp. <i>Oleifolia</i>	grey willow
<i>Salix fragilis</i>	crack willow
<i>Salix pentandra</i>	bay willow
<i>Salix viminalis</i>	osier willow
<i>Sambucus nigra</i>	common elder
<i>Sanicula europaea</i>	sanicle
<i>Satyrium pruni</i>	black hairstreak
<i>Schizopora paradoxa</i>	split porecrust
<i>Scolopax rusticola</i>	woodcock
<i>Scutellinia scutellata</i>	common eyelash
<i>Silene coronaria</i>	rose campion
<i>Silene dioica</i>	red campion
<i>Sitta europaea</i>	nuthatch
<i>Skeletocutis semipileata</i>	hazel bracket
<i>Solidago gigantea</i>	golden rod
<i>Sorbus aria</i>	whitebeam
<i>Sorbus aucuparia</i>	rowan
<i>Sorbus torminalis</i>	wild service
<i>Speyeria aglaja</i>	dark green fritillary
<i>Spinus spinus</i>	siskin
<i>Stereum hirsutum</i>	false turkey-tail
<i>Stereum rugosum</i>	bleeding broadleaf crust
<i>Stereum sanguinolentum</i>	bleeding conifer crust
<i>Streptopelia decaocto</i>	collared dove
<i>Streptopelia turtur</i>	turtle dove
<i>Strix aluco</i>	tawny owl
<i>Sturnus vulgaris</i>	starling
<i>Suillus grevillei</i>	larch bolete
<i>Sylvia atricapilla</i>	blackcap
<i>Sylvia borin</i>	garden warbler
<i>Symphoricarpos albus</i>	snowberry
<i>Tapinella atrotomentosa</i>	velvet rollrim
<i>Taxus baccata</i>	yew
<i>Tetrao urogallus</i>	capercaillie
<i>Thecla betulae</i>	brown hairstreak
<i>Thelephora terrestris</i>	earthfan
<i>Thuja plicata</i>	western red cedar
<i>Thymelicus lineola</i>	Essex skipper
<i>Thymelicus sylvestris</i>	small skipper
<i>Tilia cordata</i>	small-leaved lime
<i>Tilia platyphyllos</i>	large-leaved lime

<i>Tilia x europaea</i>	common lime
<i>Trametes gibbosa</i>	lumpy bracket
<i>Trametes hirsuta</i>	hairy bracket
<i>Trametes versicolor</i>	turkeytail
<i>Tremella foliacea</i>	leafy brain
<i>Tremella mesenterica</i>	yellow brain
<i>Trichaptum abietinum</i>	purplepore bracket
<i>Tricholoma equestre</i>	yellow knight
<i>Tricholoma sulphureum</i>	sulphur knight
<i>Tricholomopsis decora</i>	prunes and custard
<i>Tricholomopsis rutilans</i>	plums and custard
<i>Troglodytes troglodytes</i>	wren
<i>Trollius europaeus</i>	globeflower
<i>Tsuga heterophylla</i>	western hemlock
<i>Turdus iliacus</i>	redwing
<i>Turdus merula</i>	blackbird
<i>Turdus philomelos</i>	song thrush
<i>Turdus pilaris</i>	fieldfare
<i>Turdus viscivorus</i>	mistle thrush
<i>Ulex europaeus</i>	common gorse
<i>Ulmus glabra</i>	wych elm
<i>Ulmus minor</i>	smooth leaved elm
<i>Ulmus procera</i>	English elm
<i>Urtica dioica</i> l.	common nettle
<i>Vanessa atalanta</i>	red admiral
<i>Vanessa cardui</i>	painted lady
<i>Viburnum opulus</i>	guelder rose
<i>Vicia orobus</i>	wood bitter vetch
<i>Viola hirta</i>	hairy violet
<i>Viola odorata</i>	sweet violet
<i>Viola palustris</i>	marsh violet
<i>Viola reichenbachiana</i>	early dog violet
<i>Viola riviniana</i>	common dog violet
<i>Vuilleminia comedens</i>	waxy crust
<i>Vulpes vulpes</i>	European fox
<i>Xerocomellus chrysenteron</i>	red cracking bolete
<i>Xylaria hypoxylon</i>	candlesnuff fungus
<i>Xylaria polymorpha</i>	dead man's fingers

Table 4 | List of sources for extended species list. When participants made generic references to a collective group of organisms we consulted reputable sources to create a list of species for that trait (e.g. participants noticed the trait ‘spots’ on ‘birds’, from which we generated a list of 13 species of British birds that had spots and occur in forests). When deriving this extended list, we excluded species that were rare occurrences, accidental records, passage or scarce visitors (e.g. birds), as well as species that did not occur in forests.

Taxonomic group		Source(s)
Animals	Bees	https://www.bwars.com/content/bwars-data-download https://www.bumblebeeconservation.org/bumblebee-species-guide/ https://www.bwars.com/category/taxonomic-hierarchy/vespidae-wasp
	Birds	https://www.bto.org/understanding-birds/birdfacts/british-list https://www.rspb.org.uk/birds-and-wildlife/wildlife-guides/bird-a-z/ https://butterfly-conservation.org/uk-butterflies/a-to-z
	Butterflies	https://www.coleoptera.org.uk/coccinellidae/conspicuous-ladybirds
	Ladybirds	https://www.mammal.org.uk/species-hub/uk-mammal-list/
	Mammals	Collins Fungi Guide (2013) The Most Complete Field Guide to the Mushrooms and Toadstools of Britain & Ireland. William Collins Ltd.
	Fungi	-
Plants	Moss	https://www.woodlandtrust.org.uk/blog/2018/07/types-of-moss-in-the-uk/
	Trees	https://bsbi.org/
	Flowering plants	https://www.woodlandtrust.org.uk/trees-woods-and-wildlife/plants/wild-flowers/ https://www.wildlifetrusts.org/wildlife-explorer/wildflowers https://www.brc.ac.uk/plantatlas/list_plants?page=3 https://wildflowerfinder.org.uk