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Method

Participants

A total of 374 subjects completed the online experiment (see Table 1 for a breakdown of the gender and age of the sample). Subjects were recruited from both voluntary participation websites such as Prolific Academic¹ (where they received payment at the rate of $\mathfrak{L}5/hr$), and via the in-school research participation system² (where they received course participation credits).

Table 1: Gender and age (sd) of the current sample.

Gender	Ν	Age	
Female	197	33.18	(11.26)
Male	170	33.23	(10.28)
Non-binary	2	23.50	(-)
Unspecified	5	29.40	(6.11)
Total	<i>374</i>	33.10	(10.76)

To meet our YA requirements, all participants were required to be aged between 18-59 years (actual obtained range: 18-59 years). As our experiment involved typing the English labels for a range of image stimuli, subjects were also asked whether English was their first language; all but one participant indicated that English was indeed their first language (99.73%).

¹https://www.prolific.co/

²https://keelepsychology.sona-systems.com/

Materials METHOD

Materials

Items from the previous experiment were brought forward into the current study; these consisted of a random sample of line-drawn, everyday object stimuli (Rossion & Pourtois, 2004), along with their written-word counterparts. Before sourcing photographs to match these items, some were excluded due to unique restrictions that meant they could not easily be translated into photographic format (for example, the shapes "arrow" and "star" can not be represented similarly as photographs).

Photo stimuli were obtained by searching open-source, copyright-free image websites (e.g. Unsplash³; Pexels⁴) for photographs similarly depicting the line-drawn everyday objects (the full list of image references can be found in Appendix A). For each item, three unique photographs were selected. An emphasis was placed on variety when selecting the three images, with the aim of obtaining photographs that very closely resembled the line drawings and those offering more modern depictions. All photographs were imported into Adobe Photoshop (20.0.04 Release), where the background was removed in order to isolate the objects of interest from other potentially distracting visual details (this was completed manually using the magnetic lasso and polygonal lasso tools; the edges were either feathered by 1px or left un-feathered). Next, the orientation of isolated objects was adjusted to ensure they matched as closely as possible to their line-drawn counterparts (e.g. photographs of the 'boot' item were adjusted so the toe was facing left and the heel facing right, as in the line drawing); this was often achieved by flipping or mirroring the object to 'correct' the direction.

Despite isolating objects from their background, a small number of photographs still contained irrelevant and potentially distracting details (e.g. in one photograph of a 'piano', there was a sign atop the object that may have impacted how the item is encoded when ultimately used in recognition tasks). Such details were removed using the clone stamp and content-aware fill tools (some examples of these photo manipulations can be found in Appendix B). Any obvious text (e.g. brand names) and numbers were also removed from photographs using the same method. The primary aim of the current study was to obtain photographic stimuli that could be clearly separated from words and line drawings; if some of our photograph stimuli contained text, whilst others did not, it is conceivable that they may not be directly comparable in terms of recognition. There were a couple of exceptions to this rule, when such details happened to be integral to the depiction of an object (e.g. the numbers found on a ruler or clock).

The photographs were exported from Photoshop in ".png" format in both their original colour and in greyscale (by setting saturation levels to 0). Final edits were completed in Adobe Lightroom (Classic, 8.2 Release): exposure (brightness) adjustments were made on images that appeared too light or too dark; highlights were decreased if some areas were too bright compared to the rest of the photograph; shadows were raised if some areas were too dark compared to the rest of the photograph; noise reduction was applied to some items after isolating the subject had inadvertently made unwanted noise/grain more visible. The changes made to each image were systematically applied to both the colour and greyscale versions (e.g. if one variation of "shoe" had an exposure increase of .010 for the colour version, the greyscale version also received an exposure increase of .010). Some colour-specific adjustments were made to the colour pho-

³https://unsplash.com/

⁴https://www.pexels.com/

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tographs only, however; common photo artefacts such as chromatic aberration (purple fringing) were corrected, along with white balance normalisation. Finally, all photographs were placed on a 600x600 pixel white background, and made to fill this frame as much as possible (i.e. some items were restrained by height, whilst others were restrained by width).

Design

Across three blocks, all participants provided five types of response toward photo stimuli: i) Naming; ii) Familiarity; iii) Visual Complexity, iv) Colour Diagnosticity; and v) Mental Imagery Agreement. Excluding the Naming task (consisting of a typed single-word answer), all responses were provided on a 5-point Likert scale. Within participants, the maximum number of response type provided for any one item was two; Naming and Familiarity responses were paired in one block, Visual Complexity and Colour Diagnosticity responses were paired in another, and Mental Imagery Agreement responses were always presented in a separate block. The order of these three blocks was counterbalanced across participants. Toward each individual photograph, participants made only one or two types of response before moving on to the next item, and the same items were not repeated to participants. For each photograph, the five types of required data were obtained by counterbalancing between participants (e.g. for the first variation of the "cat" photograph, the Naming and Familiarity data was obtained from one participant, the Visual Complexity and Colour Diagnosticity data was obtained from another, and the Mental Imagery Agreement data was obtained from another).

Procedure

Data collection was conducted via two online platforms; i) Qualtrics⁵ - a survey platform that allowed for straightforward collection of consent, demographics, and computer compatibility data, and ii) Pavlovia⁶ - an open-source experiment hosting platform for studies programmed in Javascript (Peirce et al., 2019).

In the Naming and Familiarity block, participants were first asked "What is the name of the item depicted?". Subjects were instructed to name each photograph as briefly and unambiguously as possible, with one name only, and respond by typing their answer into the response box. If they did not know the name of an item, or had a tip-of-the-tongue experience, participants were instructed to type "no" for their answer (the term "don't know" was avoided so as not to encourage subjects to deviate from single-word responses, as instructed). Following the naming judgement, with the same photograph still present on-screen, participants were next asked "How familiar is the item depicted?". Subjects were instructed to judge each photo according to how usual or unusual the item was in their realm of experience; specifically, familiarity was defined as "the degree to which you come in contact with, or think about, the concept", and encouraged participants to rate the concept itself rather than the particular way it was currently shown. Participants selected one value from the 5-point scale, ranging from very unfamiliar (1)

⁵https://www.qualtrics.com/uk/

⁶https://pavlovia.org/

to very familiar (5), and were encouraged to use the full range of the scale throughout the set of photographs.

In the Visual Complexity and Colour Diagnosticity block, participants were first instructed to respond to the question "How visually complex is this picture?" using a 5-point scale that ranged from "very simple" (1) to "very complex" (5). Complexity was defined to subjects as "the amount of detail in the picture"; in contrast to the familiarity ratings, participants were encouraged here to rate the complexity of the picture itself, rather than the real-life item. If the photograph shown was greyscale, subjects would simply move on to the next item. If the item shown was in colour, however, participants were also required to make a colour diagnosticity judgement. This concept was defined as "how typical / normal the colour of the item is", instructing subjects to rate on a 5-point scale ranging from "Not at all diagnostic (i.e. this item could be in any other colour equally well)" (1) to "Highly diagnostic (i.e. this item appears only in this colour in real life). Participants were instructed to utilise the full range of options on the scale when making visual complexity and colour diagnosticity judgements. After making these ratings, a fixation cross was presented during a 1s interstimulus interval.

Due to the slight change in procedure and increased task complexity, Mental Imagery Agreement ratings were always acquired in an individual block (i.e. not alongside any other response types). First, participants were presented with a written label for 3s (e.g. "cat") and told to focus their attention on the word. Once the written word disappeared, a beep tone was played alongside the instruction "close your eyes and imagine this item" (subjects were encouraged to close their eyes and begin imagining the item as soon as they heard the tone, but the written instruction were included as a further prompt). After 3s a second beep tone sounded to alert subjects to open their eyes, where they were presented with a photograph of the item they had been instructed to imagine. On a 5-point scale, participants were asked to "rate the agreement between your mental image and the picture", from "low agreement" (1) to "high agreement" (5). The degree of agreement was defined as "how similar your mental image of the item is to the picture shown". A fixation cross was displayed for 1s before the next word item was shown.

All responses were self-paced; the timing was only controlled during the study/imagine section of the Mental Imagery Agreement block.

Results

Naming

The naming responses for each photograph item were manually assessed for spelling and typing errors. Automatic spell checking software was avoided in an effort to avoid inadvertently introducing unique names that were not actually given by participants. The vast majority of errors were unambiguous and easy to correct (e.g. "anker" = "anchor", "peguin" = "penguin", "ssnowman" = "snowman"), or consisted of transforming plural words to singular (or vice versa, depending on the form of the intended label - e.g. "sock" to "socks"). Some responses were a little more ambiguous, and necessitated comparison to the photographs they were in response to for additional clarity (e.g. a photograph depicting a plug that would fit into North American

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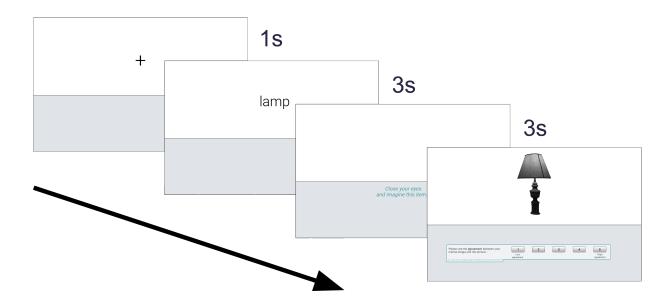


Figure 1: Figure 1: Data collection procedure for Mental Imagery Agreement responses.

electrical sockets was labelled as "usplug" - given the nature of our UK-based sample, it's likely the subject was responding: "U.S. (i.e. United States) plug".

There were instances where subjects provided a sensible and correctly spelled English word, but that were clearly typos when examined against the photograph they were in response to (e.g. "dock" for a photograph depicting a duck, "frock" for a frog, and "beer" for a "bear", etc). The most ambiguous spelling error to correct was "bittle", which was provided by more than one participant and to more than one item; separate inspections of the photographs participants were responding to made this easy to correct though, with one participant clearly meaning to respond "bottle", whilst the other meant to respond "beetle". Though participants were instructed to only give a single label for each item, some multiple word responses were found (without spaces) during the spell checking process. On such occasions, a judgement was made regarding whether multiple words were retained, or whether the response could be shortened into a single word. A general rule was applied whereby if the other words provided additional information, they were retained (e.g. "maledear" - presumably "male deer" - was kept as a two-word answer). Multiple word responses were generally shortened into a single word when the intended label for the item was clearly present, and no information was lost in the process (e.g. "haircomb" was shortened to the intended answer "comb"). It is noted that there was some inherent subjectivity in this process, though as such items were not common among straightforward responses, their overall effects are estimated to be negligible.

Finally, there were some responses that were changed to "no" as they were clearly intended to signify that the responder did not know the name of the item shown; the experiment instructed participants to type "no" in these instances, though the labels "none" and "idk" (common abbreviation for "I don't know) were provided instead. There was also a single response that was manually changed to "no", as the provided label was a single letter and thus entirely unclear what the intended answer should be. All manipulations to naming responses can be found at

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Appendix C.

References

- Peirce, J., Gray, J. R., Simpson, S., MacAskill, M., Höchenberger, R., Sogo, H., Kastman, E., & Lindeløv, J. K. (2019). PsychoPy2: Experiments in behavior made easy. *Behavior Research Methods*, *51*(1), 195–203. https://doi.org/10.3758/s13428-018-01193-y
- Rossion, B., & Pourtois, G. (2004). Revisiting Snodgrass and Vanderwart's Object Pictorial Set: The Role of Surface Detail in Basic-Level Object Recognition. *Perception*, *33*(2), 217–236. https://doi.org/10.1068/p5117

Appendices

Appendix C

esponse	Correction	Response	Correction	Response	Correction
lk	no	canle	candle	giaraffe	giraffe
one	no	canon	cannon	glases	glasses
	no	carrott	carrot	gutair	guitar
nker	anchor	carott	carrot	gitaur	guitar
ncher	anchor	cerlery	celery	gitter	guitar
nchore	anchor	celary	celery	hemmar	hammer
ncor	anchor	cellary	celery	hand5	hand
shtry	ashtray	celeary	celery	hamp	harp
shtray	ashtray	chain2	chain	kacket	jacket
oaragus	asparagus	cockrel	cockerel	kangroo	kangaroo
llon	balloon	cockaroach	cockroach	lader	ladder
aloon	balloon	cochroach	cockroach	latter	ladder
allone	balloon	chissel	chisel	leafe	leaf
allun	balloon	chizel	chisel	lettace	lettuce
alloone	balloon	chestofdraws	chest of drawers	leamon	lemon
annan	banana	chestofdrawerserss	chest of drawers	leema	lemur
amnna	banana	chisle	chisel	olobster	lobster
ananna	banana	claranet	clarinet	maledear	maledeer
ınnana	banana	combe	comb	mortle	mortar
nanaa	banana	dear	deer	monkeybut	monkeynut
ırrell	barrel	deere	deer	mousse	moose
rrle	barrel	draws	drawers	neddle	needle
ırel	barrel	doormouse	dormouse	nectarinee	nectarine
ırrow	barrel	eagal	eagle	onions	onion
ısket	basket	eeagle	eagle	ostrage	ostrich
ellpepp34	bellpepper	eclipses	eclipse	osterich	ostrich
eatle	beetle	eclipes	eclipse	ostrige	ostrich
ettle	beetle	eclipsse	eclipse	ostrisge	ostrich
ueberrys	blueberries	falg	flag	ostritch	ostrich
rcycle	bicycle	footstall	footstool	ostridge	ostrich
cucle	bicycle	fott	foot	apricorte	apricot
cyle	bicycle	frog/	frog	nectarin	nectarine
ootle	bottle	girafffe	giraffe	nectrine	nectarine
olw	bowl	giraffee	giraffe	pecock	peacock
oon	broom	girrafe	giraffe	peacck	peacock
oon	broom	girafe	giraffe	pair	pear
um	broom	giraff	giraffe	oencil	pencil
amal	camel	giaffee	giraffe	pengiuin	penguin
anddle	candle	girraffe	giraffe	pengiun	penguin

Response Correction Response Correction Response Correction	(continued)	(continued)						
penquin penguin thumb thumb feet foot peguin penguin toltouse tortoise geese goose peper pepper pepper tomatoe tomato gloves glove pestleandmorter tobaccopipe tomoato tomato lip lips lips piccolo piccolo piccolo tortiste tortoise mice mouse pliers pliers tortus tortoise mittens mitten plier pliers tortus tortoise mittens mitten plier pliers volion violin cock cockerel pliers pliers violin violin cock cockerel pliers pliers violin violin cock cockerel pliers pliers violen violin cock cockerel pliers pliers violen violin dolly doll vicescripts vicegrips valture villure eyeglass eyeglasses usplug plug waistcoast waistcoat fencing fence potato potato wastecoat waistcoat haircomb comb potato potato wale well longdress dress pumpkin pumpkin whistle whistle mit mitten plug pumpkin pumpkin whistle whistle rule ruler rabbit rabbit white whistle whistle rule ruler rabbit rabbit white whistle whistle rule ruler rabbit rabbit white seel seal glass glasses glasses glasses seal glass glasses glasses soop spoon soop soop harper pepper soon spoon harper hamper steplader steplader muscat muskrat sterss step bittle bottle sweet of thimble thimble draw drawers	Response	Correction	Response	Correction	Response	Correction		
peguin penguin toitouse tortoise geese goose peper tomatoe tomato gloves glove peper pepper tomatoe tomato gloves glove peper tobaccopipe tomatoe tomato tomato lip lip lips lips per per tobaccopipe tomoato tomato lip lip lips lips per per peper tobaccopipe tomoato tomato lip lips lips per peper pestleandmortar grape grapes ladders ladders ladder tabaccopipe tobaccopipe tomoato tomato lip lips lips per peper per per per per per per per p	penguine	penguin	timbil	thimble	drums	drum		
pepler pestleandmorter pestleandmortar grape grapes grapes ladders ladder labaccopipe tobaccopipe tomoato tomoato tomoato lips lips lips lips lips lips lips lips	penquin	penguin	thunb	thumb	feet	foot		
pepler pestleandmorter pestleandmortar grape grapes grapes ladders ladder labaccopipe tobaccopipe tomoato tomoato tomoato lips lips lips lips lips lips lips lips	peguin	penguin	toitouse	tortoise	geese	goose		
tabaccopipe tobaccopipe tomoato tomato lip lip lips piccalo piccolo tortiste tortoise mice mouse pliers pliers tortise tortoise mittens mitten plier pliers tortus tortus tortoise onions onion onion plyers pliers voilon violin cock cockerel pliers pliers vicin violin cycle bicycle pliers pliers vicin violin cycle bicycle pliyers pliers vicin violin cycle bicycle pliyers pliers vicin violin dolly doll vicescripts vicegrips valture vulture eyeglass eyeglasses usplug plug waistocast waistocat fencing fence potatoe potato walte well longdress dress pumkin pumpkin whistel whiste mit mitten pumpkin pumpkin whistel whiste plugin plug punpkin whistel whiste plugin plug pumpkin whistel whiste plugin plug pumpkin whistel whiste plugin plug pumpkin trabbit rabbit white whiste specs spectacles racoon raccoon windown window teakettle kettle mercat meerkat beer bear accop scoop dock duck eele seal frock frog seel seal glass glasses showel shovel noise nose souch souch paper pepper spon spoon harper hamper stepsade sleets steps pittle bottle servers steps bittle bottle sweets steps pittle bottle sweets thimble thimble draw drawers	peper	pepper	tomatoe	tomato	gloves	glove		
piccalo pliars pliers tortise tortoise mice mouse pliars pliers tortus tortise tortoise mittens mitten plier pliers tortus tortoise onions onion on plyers pliers volion violin cock cockerel pliers pliers violin violin cock cockerel pliers pliers violin violin cock cockerel pliers pliers violin violin cock cockerel pliers pliers violen violin dolly doll vicescripts vicegrips valture vulture eyeglass eyeglasses usplug plug waistcoast waistcoat fencing fence potatoe potato wastecoat waistcoat haircomb comb potato potato wale well longdress dress pumpkin pumpkin whistel whistle mit mitten pumpkin pumpkin whistel whistle plugin plug pumpkin pumpkin whistle whistle plugin plug pumpkin pumpkin whistle whistle rule rule ruler rabit rabbit white white whistle specs spectacles raccoon raccoon windown window window teakell teakettle kettle mercat meerkat beer bear accoop scoop dock duck eele seal glass glasses glasses sal sooks paper pepper sooks soak sooks paper pepper sooks step bittle bottle sweetim sweetorn harper hamper steplader steplader steplader muscat muskrat steps bittle beetle rubarb rhubarb rhubarb carrots carrot thimble thimble thimble draw drawers	pestleandmorter	pestleandmortar	grape	grapes	ladders	ladder		
pliars pliers pliers tortus tortoise mittens onions onion plyers pliers volion violin cock cockerel pilers pliers volion violin cock cockerel pilers pliers violin violin dolly doll violin violin dolly doll violin violin dolly doll violin dolly plug waistcoast vicescripts vicegrips vicegrips valture vulture eyeglass eyeglasses usplug plug waistcoast waistcoat fencing fence potatoe potato wastecoat waistcoat haircomb comb potatoe potato wastecoat waistcoat haircomb comb potato potato wale well longdress dress pumkin pumpkin whistel whistle mit mitten pumpkin pumpkin whistle whistle plugin plug rabit rabbit rabbit white whistle plugin plug rabit rabbit rabbit white whistle specs spectacles raccon raccoon windown window teakettle kettle mercat meerkat peneut peanut meerkat beer bear accop scoop dock duck eele seal frock frog seal glasses glasses glasses sal seal glasses glasses sal showel shovel noise nose sook socks paper pepper spon spoon harper hamper steplader steplader muscat muskrat sterss step bittle bottle sweetcirn sweetcirn sweetcirn bittle beetle thimble thimble clouds cloud thimble whimble draw drawers	tabaccopipe	tobaccopipe	tomoato	tomato	lip	lips		
piler pliers pliers volion violin cock cockerel pilers pliers pliers volion violin cock cockerel pilers pliers violin violin cycle bicycle pilers pliers violen violin cycle bicycle pilers pliers violen violin dolly doll vicescripts vicegrips valture vulture eyeglass eyeglasses usplug plug waistooat waistooat fencing fence potatoe potato wastecoat waistooat haircomb comb potato potato potato wale well longdress dress pumpkin pumpkin whistel whistle mit mitten pumpkin pumpkin whistle whistle plugin plug punpkin pumpkin whistle whistle plugin plug rabbit rabbit whisell whistle rule ruler rabit rabbit whisell whistle specs spectacles racoon raccoon windown window teakettle kettle wereat meercat meerkat beer bear accop scoop dock duck seel seal glass glasses glasses snakw snake glassesbottle bottle ssnowman snowman hose house showel shovel noise nose soak socks paper pepper sters step bittle bottle sweetcirn sweetcorn bittle beetle rubarb rhubarb carrots carrot thimble thimble draw drawers	piccalo	piccolo	tortiste	tortoise	mice	mouse		
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	thinbell	thimble	clouds	cloud				
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