

Appendix A

Prompts

Our moral value sorting prompt was as follows: “I will sort these actions in terms of their moral value. I am sorting only on morality according to how morally wrong each action is, starting with the most morally wrong and ending with the most morally virtuous. I will format the list as a python list of strings. Here is an example. Sort these actions: walk a dog, rob a bank, rescue a cat, steal food. Response: ["rob a bank", "steal food", "walk a dog", "rescue a cat"]. Sort these actions:”

For hedonic value, the initial two sentences read: “I will sort these actions in terms of how good and rewarding they are for myself. I am sorting only on how good this action is for me, starting with the most bad and least rewarding, and ending with the most good and rewarding.”.

For physical movement, the initial two sentences read: “I will sort these actions in terms of how much they involve physical body movement. I am sorting only on how much physical movement this involves, starting with the least movement, and ending with the most movement.”.

The second-stage rating prompt for moral value was as follows: “ Given a list of actions, I will rate how similar pairs of actions are in terms of their moral value. I will assign a number to each adjacent pair, rating 0 if the actions are very similar in terms of moral value, and 10 if the actions are very different in terms of moral value. I will give the first action a rating of 0. I will give the second action a rating in comparison to the first action, and so on. I will format the response as a list of python strings, with the action followed by a ":" and its rating. Here is an example: Rate these actions: rob a bank, steal food, walk a dog, rescue a cat. Response: ["rob a bank: 0", "steal food: 3", "walk a dog: 10", "rescue a cat: 6"] . Rate these actions:”.

For hedonic value, the first two sentences of this prompt were replaced with: “Given a list of actions, I will rate how similar pairs of actions are in terms of how good or rewarding they are for me. I will assign a number to each adjacent pair, rating 0 if the actions are very similar in terms of being good for me, and 10 if the actions are very different in terms of being good for me.”

Appendix B

Detailed Results

Item	Moral	Hedonic
working as a suicide bomber	0.0	0.0
pushing a girl off a bridge	6.6	1.1
stealing someone's wallet	17.1	4.4
thinking about harming myself	19.7	1.1

falling off a bridge	20.4	1.1
forgetting my mom's birthday	21.7	7.7
losing my wallet	25.0	3.3
cleaning up litter in a rough neighborhood	40.8	30.8
serving on a jury	47.4	59.3
mowing the lawn	53.9	24.2
sitting in a chair	60.5	16.5
running a marathon for fitness	67.1	49.5
teaching English to refugees	73.7	69.2
running a marathon for charity	80.3	40.7
serving food to unhoused people in a soup kitchen	86.8	79.1
giving my employees a day off to go to the spa	93.4	89.0
winning millions in the lottery	100.0	100.0

Item	Moral	Hedonic
burning down my neighborhood	0.0	0.0
kicking a baby	10.0	1.0
cheating on my partner	18.0	3.1
breaking someone's heart	25.0	10.3
having impure thoughts about a family member	43.0	6.2
forgetting my own birthday	49.0	21.6
watching a rival sports team lose badly	52.0	37.1
falling down the stairs	54.0	15.5
thinking about the day's plans	55.0	46.4
taking a day off to go to the spa	57.0	92.8
walking dogs for a local animal shelter	65.0	66.0
rescuing refugees from a sinking life raft	74.0	96.9
volunteering at a voting location	81.0	81.4
donating money to charity	87.0	100.0
paying taxes	92.0	28.9
helping someone change their flat tire on the road	96.0	74.2

hiking in a beautiful place	99.0	87.6
opening a door	100.0	56.7

Item	Moral	Hedonic
lying on my taxes to get a higher return	0.0	15.4
punching my friend in the face	9.1	29.2
taking candy from a baby	16.4	69.2
running into a burning building to save a precious antique	25.5	75.4
punching myself in the face	27.3	41.5
dropping and breaking my phone	30.9	52.3
losing borrowed book	33.6	61.5
watching your favorite movie	42.7	86.2
listening to local news	49.1	89.2
painting a wall	58.2	93.8
buying carbon credits	72.7	100.0
writing letters to the local government to support a homeless shelter	81.8	80.0
being a pen pal for a child in a developing country	90.9	83.1
carrying groceries for an elderly person	100.0	84.6

Table 1. Moral and Hedonic values obtained with the two-stage prompting method with GPT 3.5 on all 52 items, separated into three batches.

Appendix C

Target Item	Moral Opinion
Eating a hamburger	I am a vegan, and think it's very wrong to eat meat or consume any product from animals
Telling a white lie to be polite	I strongly value honesty and believe it is always wrong to lie.
Swearing in public	I think it is morally wrong to be impolite and use crass language
Being nude at the beach	I am a very modest person and believe that it is wrong to be nude in public.

Driving slowly in the left lane	I believe that driving so slowly that you impede traffic is very dangerous, immoral, and should be outlawed.
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Table 2. Moral opinion statements and associated target items used in the learning experiments.