File Description

File/Folder	Description
`data/`	This folder contains human data and measurement tables.
`records/`	This folder contains response records from ChatGPT models.
`extract.ipynb`	The code for extracting actions from models' responses using ChatGPT-3.
`mu-test.ipynb`	The code for the significance tests (Section 3 in SI).
`plot-sankey.ipynb`	The code for plotting Sankey plots for the Prisoner's Dilemma game (Fig. 4 and Fig. S8).
`plot.ipynb`	The code for plotting figures in the paper.
`run-openai.ipynb`	The code for collecting ChatGPT responses using the official OpenAI API, containing all the prompts.
`run-revChatGPT.ipynb`	The code for collecting ChatGPT responses using the unofficial revChatGPT tool.

Reproducing the Results

Figure/Table	Code	Data and Response Records
Fig. 1: Big Five	`plot.ipynb`: Fig. 1 `run-openai.ipynb`: Big Five Test	Human data: `data/bigfive_data.csv` ChatGPT-4 responses: `records/bigfive_gpt4_2023_06_26 -01_37_11_PM.json` ChatGPT-3 responses: `records/bigfive_turbo_2023_06_2 6-02_06_26_AM.json` Test questions: `data/bigfive.tsv` IPIP measurement: `data/bigfive_IPIP.tsv`
Fig. 2: Turing Test	`plot.ipynb`: Fig. 2	See below for the human data and model responses for each game
Fig. 3: Distributions - Dictator	`plot.ipynb`: Fig. 3 - Dictator `run-openai.ipynb`: Games - Dictator Game	Human data: `data/dictator.csv` ChatGPT-4 responses: `records/dictator_gpt4_2023_04_0 5-04_34_28_AM.json`

		ChatGPT-3 responses:
		`records/dictator_wo_ex_2023_03_`
		`13-11_24_07_PM.json`

Fig. 3:
Distributions
- Ultimatum
	`plot.ipynb`: Fig. 3 -
	Ultimatum
	`run-openai.ipynb`:
	Games - Ultimatum Game
		Human data:
		`data/ultimatum_strategy.csv`
		
		Ultimatum - Proposer:
		ChatGPT-4 responses:
		`records/ultimatum_1_gpt4_2023_0`
		`4_05-04_41_04_AM.json`
		ChatGPT-3 responses:
		`records/ultimatum_1_wo_ex_2023_`
		`03_13-11_54_45_PM.json`
		
		Ultimatum - Responder:
		ChatGPT-4 responses:
		`records/ultimatum_2_gpt4_2023_0`
		`4_05-04_49_55_AM.json`
		ChatGPT-3 responses:
		`records/ultimatum_2_wo_ex_2023_`
		`03_14-12_44_57_AM.json`

Fig. 3:
Distributions
- Trust
	`plot.ipynb`: Fig. 3 - Trust
	`run-openai.ipynb`:
	Games - Trust Game
		Human data:
		`data/trust_investment.csv`
		
		Trust - Investor:
		ChatGPT-4 responses:
		`records/trust_1_gpt4_2023_04_05`
		`-05_49_06_PM.json`
		ChatGPT-3 responses:
		`records/trust_1_wo_ex_2023_03_1`
		`6-11_20_16_PM.json`
		
		Trust - Banker:
		ChatGPT-4 responses:
		`records/trust_3_gpt4_2023_04_08`
		`-12_03_33_AM.json`
		ChatGPT-3 responses:
		`records/trust_3_turbo_2023_04_0`
		`8-12_05_57_AM.json`

Fig. 3:
Distributions
- Public Goods
	`plot.ipynb`: Fig. 3 - Public
	Goods
	`run-openai.ipynb`:
	Games - Public Goods
		Human data:
		`data/public_goods_linear_water.`
		`csv`
		ChatGPT-4 responses:
		`records/PG_basic_gpt4_2023_05_0`
		`9-11_15_42_PM.json`
		`records/PG_basic_gpt4_loss_2023`
		`_05_09-10_44_38_PM.json`

		ChatGPT-3 responses:
		`records/PG_basic_turbo_2023_05_09-02_49_09_AM.json`
		`records/PG_basic_turbo_loss_2023_05_09-03_59_49_AM.json`

Fig. 3:
Distributions
- Bomb Risk
 	
Fig. 5:
Bomb Risk
	`plot.ipynb`: Fig. 3 - Bomb Risk
	`run-openai.ipynb`:
	Games - Bomb Risk
		Human data: `data/bomb_risk.csv`
		ChatGPT-4 responses:
		`bomb_gpt4_2023_05_15-12_13_51_AM.json`
		ChatGPT-3 responses:
		`bomb_turbo_2023_05_14-10_45_50_PM.json`

Fig. 3:
Distributions
- Prisoner's
Dilemma
 	
Fig. 4:
Prisoner's
Dilemma
	`plot.ipynb`: Fig. 3 -
	Prisoner's Dilemma
	`run-openai.ipynb`:
	Games - Prisoner's Dilemma
	`plot-sankey.ipynb`
		Human data: `data/push_pull.csv`
		ChatGPT-4 responses:
		`records/PD_gpt4_two_rounds_push_2023_05_10-10_04_33_PM.json`
		`records/PD_gpt4_two_rounds_pull_2023_05_08-08_57_08_PM.json`
		ChatGPT-3 responses:
		`records/PD_turbo_two_rounds_push_2023_05_08-06_03_40_PM.json`
		`records/PD_turbo_two_rounds_pull_2023_05_08-09_23_13_PM.json`

Fig. 6: Payoff Figures and tables in SI: Table S1, Fig. S3, Fig. S4, Fig. S5, Table S2	`plot.ipynb`: Fig. 6	See above for the human data and model responses for each game.
Fig. S1: Demographics of human data in Big Five		`data/bigfive_data.csv`
Fig. S2: Demographics of MobLab human data		See above for the human data for each game.

Fig. S6:
Framing
	`plot.ipynb`: Fig. S6
	`run-openai.ipynb`:
	Games (Witnessed and
	Explained, Paired, Different
	Roles, Trust 2-4)
		S6 (a):
		`records/dictator_witnessed_2023_03_31-10_01_37_PM.json`
		`records/dictator_w_ex_2023_03_13-11_40_16_PM.json`

		S6 (b):
		`records/ultimatum_2_gpt4_paired`
		`_male_2023_04_12-11_58_47_PM.js`
		`on`
		`records/ultimatum_2_gpt4_paired`
		`_female_2023_04_12-11_52_38_PM.`
		`json`
		
		S6 (c):
		`records/ultimatum_2_gpt4_occupa`
		`tions_described_2023_04_10-10_5`
		`6_28_AM.json`
		
		S6 (d-f):
		`records/trust_2_gpt4_2023_04_07`
		`-11_46_45_PM.json`
		`records/trust_4_gpt4_2023_04_08`
		`-12_24_56_AM.json`
		`records/trust_2_turbo_2023_04_0`
		`7-11_50_49_PM.json`
		`records/trust_4_turbo_2023_04_0`
		`8-12_30_40_AM.json`

Fig. S7:
Learning
	`plot.ipynb`: Fig. S7
	`run-openai.ipynb`:
	Games - Ultimatum (Session 1&2), Trust (All Together)
		Ultimatum Game:
		`records/ultimatum_21_gpt4_2023_`
		`04_07-03_32_21_AM.json`
		`records/ultimatum_21_2023_03_29`
		`-05_41_19_PM.json`
		`records/ultimatum_12_gpt4_2023_`
		`04_07-03_14_30_AM.json`
		`records/ultimatum_12_2023_03_29`
		`-06_27_31_PM.json`
		
		Trust Game:
		`records/trust_gpt4_31_2023_04_1`
		`2-02_51_38_AM.json`
		`records/trust_gpt4_13_2023_04_1`
		`2-02_03_38_AM.json`
		`records/trust_turbo_31_2023_04_`
		`12-04_53_06_PM.json`
		`records/trust_turbo_13_2023_04_`
		`12-04_37_21_PM.json`

Fig. S8:
Prisoner's Dilemma (Five Rounds)
	`plot.ipynb`: Fig. 3 -
	Prisoner's Dilemma
	`run-openai.ipynb`:
	Games - Prisoner's Dilemma
	`plot-sankey.ipynb`
		Human data: `data/push_pull.csv`
		ChatGPT-4 responses:
		`records/PD_gpt4_five_rounds_pul`
		`l_2023_05_11-05_17_36_PM.json`
		ChatGPT-3 responses:
		`records/PD_turbo_five_rounds_pu`
		`ll_2023_05_11-08_03_28_PM.json`