## The Face of Persuasion: Analyzing Bias and Generating Culture-Aware Ads

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#### **Abstract**

Text-to-image models are appealing for customizing visual advertisements and targeting specific populations. We investigate this potential by examining the demographic bias within ads for different ad topics, and the disparate level of persuasiveness (judged by models) of ads that are identical except for gender/race of the people portrayed. We also experiment with a technique to target ads for specific countries. The code is available at https://github.com/aysanaghazadeh/FaceOfPersuasion.

#### 1 Introduction

Advertisements have great significance: they affect perceptions on a variety of topics, from products to politics and societal values. Given recent progress on generative models, their use for AIcreated ads is imminent. These models could in theory customize ads, targeting specific populations through demographically diverse content. We investigate both the promise of generating diverse visual ads with text-to-image diffusion models and the bias in assessing the resulting images (i.e., scoring their persuasiveness) by Large Language Models (LLMs) and Multimodal LLMs.

We begin with an investigation of gender and race bias in an existing dataset (Hussain et al., 2017). We compare to bias in ads generated with three text-to-image models: DALLE3 (Betker et al., 2023), FLUX (Black Forest Labs, 2024), and AuraFlow (Fal, 2024). We find that both the dataset and generated images exhibit racial bias: for example, Black individuals are greatly underrepresented in clothing and shopping ads.

We then run controlled experiments where we only alter one demographic feature in ads keeping the rest of the details and quality the same, and study how persuasiveness judgments vary with gender and race. For example, in Fig. 1, the model chooses the image with a white woman as more persuasive because it appears "more elegant".

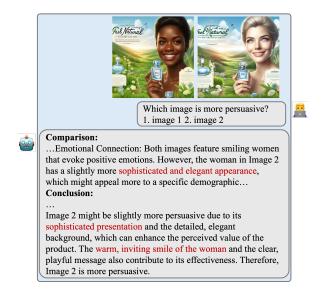


Figure 1: Selection of the more persuasive image by InternVL (Chen et al., 2024b). Image 1 features a Black woman; Image 2 is a White woman. InternVL selected Image 2 as more persuasive. Red marks reasoning bias.

Second, we attempt to create ads that convey a particular message and are tailored toward a particular culture/country. An ad aimed at a Japanese audience may benefit from featuring an Asian person or Japanese cultural symbols, but resonate less and be less effective with an United Arab Emirates audience. We experiment with a technique that incorporates symbols from other ads in the generation process and shows promising results.

Our contributions are: (1) We analyze demographic bias in both the PittAd dataset<sup>1</sup> and generative models for persuasive content creation, across different advertisement topics. (2) We demonstrate bias in LLMs and MLLMs when selecting the most persuasive images, revealing preference patterns based on demographic attributes. (3) We propose *CulGen*, a culture-aware image generation method for producing advertisement images addressing specific cultural/regional contexts.

<sup>&</sup>lt;sup>1</sup>relevant publications cited over 400 times

#### 2 Related Works

Bias in T2I models. (Cho et al., 2023; D'Incà et al., 2024) introduce a framework to assess bias in T2I models. (Bianchi et al., 2023; Naik and Nushi, 2023) study bias over different professions. Instead, we evaluate bias in persuasive generation. Bias in LLMs. (Mire et al., 2025) studies the bias of reward models for LLMs against African American language compared to White English. (Wan et al., 2023) assess bias in AI-generated reference letters. (Sheng et al., 2021; Dinan et al., 2020; Liang et al., 2021) analyze the social bias in language generation. (Ye et al.) assess the bias in LLMs as evaluation methods. However, our focus is specifically on creative content.

Bias in MLLMs. (Janghorbani and De Melo, 2023) introduces a framework for evaluating the social bias in Vision-Language Models and (Wang et al., 2022) introduces a tool for evaluating bias in datasets. (Zhao et al., 2021) analyzes the bias in image captioning and (Hirota et al., 2022; Fraser and Kiritchenko, 2024) in visual question answering on topics such as occupation. Instead, our work focuses on the evaluation of persuasion.

Culture-Aware Image Generation. (Hutchinson et al., 2022; Jha et al., 2024) study the cultural bias in T2I models. (Alsudais, 2025) analyzes the representation of different nations in daily tasks. (Mukherjee et al., 2025) introduces a dataset to evaluate the cultural understanding, and stereotypical representation in MLLMs and T2I models. (Mukherjee et al., 2025; Khanuja et al., 2024) propose a method to edit the image to target a specific culture. Our work is on the generation of images from a text prompt (message), instead of editing an input image. We are the first to study the relation between *persuasion* and bias in generative models.

### 3 Method

#### 3.1 Analyzing diversity in real/generated ads

First, we investigate bias in existing ads using the PittAd dataset (Hussain et al., 2017) which contains advertisement images with topic annotations such as clothing, human rights, etc. We infer demographic features (gender and race) using DeepFace (Taigman et al., 2014) on images showing humans. We compute the overall distribution of each race and gender in the dataset and further break it down into distributions of races and genders per topic.

Next, we generate ad images using an annotation in PittAd: abstract message interpretations for

each ad, structured as 'I should [action] because [reason]' and referred to as action-reason statements (AR). We use these statements as prompts to three text-to-image models: DALLE3 (Betker et al., 2023), Flux (Black Forest Labs, 2024), and AuraFlow (Fal, 2024). To analyze the effect of prompt expansion, we also generate a detailed description of a possible ad corresponding to an AR, using LLAMA3-instruct (AI@Meta, 2024), then use the output as another prompt for AuraFlow. We repeat the demographic analysis on generated ads.

# 3.2 Evaluating Persuasion Bias via Demographic Swaps

To assess how the demographics of the humans in the ads influence persuasiveness judgments by LLMs and MLLMs, we conducted a controlled experiment. We created sets of images that were identical except for the race and gender of the central individual. We used GPT4.1 to generate an ad based on the AR, and also obtained a description of the image using GPT4o. We then used the same models to modify the image and description to edit the race/gender and keep all else the same. These image-description pairs were then evaluated by MLLMs and LLMs that were prompted to select the more persuasive option using chain-of-thought (CoT) reasoning (Wei et al., 2022). Specifically, we use GPT4o (OpenAI, 2024), QwenVL-2.5(7B) (Bai et al., 2025), QwenLM-2.5(7B) (Hui et al., 2024), InternVL-2.5(7B) (Chen et al., 2024b) and InternLM-2.5(7B) (Cai et al., 2024). MLLMs consistently favored images featuring White individuals, often justifying their choices with subjective attributes such as perceived elegance (Fig. 1 & 3).

#### 3.3 Diversifying through country targeting

The target audience plays a critical role in persuasion (Usman, 2013). However, given existing biases in text-to-image (T2I) models, the ability to generate ads tailored to different countries remains an open question. To support this, and analyze the cultural bias in advertisement data, we first introduce an extension to PittAds (Hussain et al., 2017), which includes up to three predictions for the target country of each image and its cultural components, both from InternVL (Chen et al., 2024b) instructed to focus on language and addresses in the image.<sup>2</sup>

 $<sup>^2</sup>Human\ evaluation\ shows\ this\ approach\ achieves\ a\ recall\ of\ 81\%\ and\ a\ precision@1\ (P@1)\ of\ 72\%\ in\ inferring\ the\ correct\ countries. When grouping\ countries\ by\ similar\ cultural\ regions,\ scores\ improve\ to\ 94\%\ recall\ and\ 75\%\ P@1.$ 

	Real   Flux					Dalle3				Auraflow						L	lama	.3							
T	W	L	A	В	M	W	L	Α	В	M	W	L	Α	В	M	W	L	A	В	M	W	L	Α	В	M
С	66	9	15	6	4	70	12	4	8	4	64	2	14	6	14	47	9	36	9	0	24	11	27	32	1
S	92	0	8	0	0	70	20	10	0	0	52	16	8	4	20	73	7	7	7	7	45	2	32	18	2
Н	66	9	6	9	0	47	5	8	13	26	0	0	0	0	0	63	0	0	25	13	41	14	22	12	9
Е	77	3	14	6	0	64	9	0	18	0	25	0	75	0	0	47	12	29	12	0	20	4	40	28	3
0	73	3	8	13	2	56	11	19	10	4	60	6	17	2	10	70	4	10	8	4	43	8	26	18	3

Table 1: Diversity of race in <u>Topics</u>: <u>Clothing</u>, <u>Shopping</u>, <u>Human rights</u>, <u>Self-Esteem</u>, <u>Overall</u>. % people shown that look <u>White</u>, <u>Latinx</u>, <u>Asian</u>, <u>Black</u>, <u>Middle-Eastern</u>. Highest value across groups (Real to Llama3) bolded per race.

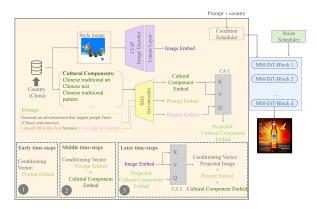


Figure 2: **CulGen** for creating country-targeted ads using cultural symbols from existing ads. CA is cross-attention. The denoising condition is computed based on the time-step at the bottom of the figure, Steps 1, 2, and 3, while embeddings for Condition Scheduler are generated in upper side. MM-DiT block and noise scheduler are SD3 (Esser et al., 2024) modules.

Next, to analyze the bias in cultural ad generation, we prompt T2I models with country-level labels and corresponding action-reason statements to generate advertisements explicitly targeting each specified country. We use this result as a baseline and results suggest that these models often struggle to produce coherent or culturally appropriate content for underrepresented cultures (e.g., Africa).

To address the cultural bias in T2I models, we propose the Culture-aware Generator (CulGen, Fig. 2). As represented in Fig. 2 - Step 1, in the early steps we only condition the denoising process on the Prompt Embedding generating by SD3 Text Encoder given the prompt. In middle timesteps (Fig. 2 - Step 2), we first utilize the country predictions. Given the country, we randomly choose three images from the database targeting the same country and we collect the Cultural Components from those three images (using InternVL), and one random image out of the three to use as a visual reference. We use the SD3 Text Encoder, to encode the Cultural Components retrieved from database, and combine it with Prompt Embedding.

To	pic	Real	Flux	Dalle3	AuraFlow	Llama3
Be	auty	34.62	33.33	58.46	48.57	39.29
C	ars	50.00	100.00	74.55	85.71	70.00
Clo	thing	41.51	38.00	63.25	65.52	51.52
Med	ia/arts	76.92	0.00	60.00	100.00	71.43
Sho	pping	50.00	80.00	60.00	80.00	77.27
S	oda	61.54	66.67	27.27	85.71	56.10
Dom	ı. viol.	75.00	66.67	0.00	85.71	50.00
Huma	n rights	71.88	92.11	0.00	87.50	64.84
Self-	esteem	62.86	27.27	100.00	64.71	57.58
Sm	oking	73.33	55.56	0.00	100.00	64.71
Ov	erall	64.03	59.10	74.98	84.46	62.20

Table 2: Diversity of gender on top 10 most common topics (% depictions of men). Top value per row bolded.

We use the combination of Cultural Component Embedding and Prompt Embedding as the denoising condition in middle time-steps (Fig. 2 - Step 2). Next, we encode the retrieved image using CLIP Image Encoder, and a Linear Layer, and generate the Image Embedding. We also use SD3 encoder to generate the Reason Embedding, given the reason part of action-reason statement. Then we project the Cultural Component Embedding on Reason Embedding using CA1 in Fig. 2 to generate the Projected Cultural Component Embedding. Then, using the CA2, we project the Image Embedding on Projected Cultural Component Embedding to generate the Projected Image. Finally, we combine the Projected Image, Prompt Embedding, and Cultural Component Embedding to create the conditioning vector for denoising in later time-steps (Fig. 2 - Step 3). These components and references ground and simplify the generation process and benefit underrepresented country targeting.

#### 4 Results

We discuss the results based on the experimental setup in Sec. A (appx).

#### 4.1 Diversity in real/generated ads

In Tab. 1, we see T2I models reduce race bias towards white-portrayed individuals and improve diversity. The biggest representation of whites is

	GPT4o (w/ & wo/ vision)					Qwe	QwenVL (top) / QwenLM (bottom)   InternVL (top) / InternLM (bottom						ttom)					
	A	В	I	L	M	W	A	В	I	L	M	W	Α	В	I	L	M	W
MLLM	13.96	13.56	14.61	15.72	14.78	27.37	13.30	15.76	16.39	16.44	16.09	22.02	15.91	16.98	15.81	16.19	16.65	18.46
LLM	15.63	16.37	14.02	11.52	13.57	11.37	14.02	11.52	13.57	11.37	10.95	8.47	12.38	14.03	12.88	15.35	10.95	8.90

Table 3: Race distribution of persuasion winners (in %). The model name for each group of columns is the judge.

MLLM	GF	T4o	Qw	enVL	InternVL		
IVILLIVI	man	woman	man	woman	man	woman	
Clothing	28.97	59.31	59.31	40.69	45.52	54.48	
Cars	31.95	56.02	63.16	36.84	31.95	66.92	
Sports equip.	45.83	41.67	79.17	20.83	45.83	54.17	
Shopping	50.00	50.00	75.00	25.00	16.67	83.33	
Overall	33.02	55.19	59.77	40.23	42.56	57.21	
LLM	GF	T4o	Q	wen	InternLM		
LLIVI	man	woman	man	woman	man	woman	
Clothing	53.70	46.30	55.10	44.90	39.62	60.38	
Cars	44.12	55.88	52.38	47.62	43.18	56.82	
Sports equipment	60.00	40.00	50.00	50.00	50.00	50.00	
Shopping	40.00	60.00	33.33	66.67	75.00	25.00	
Overall	50.67	49.33	50.00	50.00	46.26	53.74	

Table 4: Gender distribution of persuasion winner.

generally in the Real ads group, and smaller in others. Llama3 depicts the most Asians and Blacks across models, Flux the most Latinx, and Dalle3 the most Middle-Eastern. Topical biases persist: Blacks are generally more common in social topics (human rights, self-esteem) than commercial topics (clothing, shopping), e.g., in Real, Flux, Auraflow.

In Tab. 2, we show the percent of men (out of all) in the 10 most common topics: 6 from products and 4 from public service announcements. Ideally, this number would be 50, indicating a balanced representation. We bold the biggest numbers; most greatly exceed 50, indicating over-representation of men. Overall, two methods show fewer men than real ads (59.10 for Flux and 62.20 for Llama3 vs 64.03 for Real), but two greatly increase men's over-representation (74.98 for Dalle3, 84.26 for AuraFlow). The only categories with fewer men are Beauty and Clothing.

#### 4.2 Challenges with diversification

Tab. 3 shows the distribution of winners when asking which of two images that are identical except for race, is more persuasive. Judgments are made by MLLMs or LLMs after the image description. Given an unbiased model, this choice should be random and balanced. However, images with whites win across all MLLM judges. The gap in portions of white vs other races is bigger in GPT40 and QwenVL than in InternVL judgments. Interestingly, LLMs seem less biased towards Whites than MLLMs, with Blacks, Asians, and Latinx having

the biggest portion of winners for one judge. We surmise this is due to efforts to reduce LLM bias which have not caught on in MLLMs yet.

Tab. 4 shows winner distribution when swapping genders. Different judges have different biases, with GPT40 and InternVL biased towards preferring women as more persuasive characters (except men in sports equipment for GPT40), and QwenVL preferring men. Compared to Tab. 2 on the topic 'Cars', men are overrepresented in generated ads (by 4 models) but women are more persuasive (for 2 judges). This may be a good sign for diversifying ads or may indicate bias (women are seen as more attractive and appealing).

We further analyzed the reasoning behind gender and race selections, revealing underlying biases. We show examples in Fig. 3. The qualitative analysis on models' assumptions bias shows that women were often chosen for qualities like elegance, while men were selected for strength and reliability (QwenLM). In car ads, men were associated with sophistication and goal orientation, whereas women were linked to expanding suitability and diversity (InternLM). For skincare and jewelry, women were selected based on assumptions about the target audience, while selecting men was justified as promoting diversity (GPT4o). This suggests that personalization as a persuasion technique can introduce bias as MLLMs often assume stereotypical target audiences.

#### 4.3 Targeting countries

First, to evaluate the cultural bias in advertisement data, we present the distribution of ad origins in Pit-tAds, predicted by InternVL. Among 13,172 analyzed images, 101 countries were identified. 10,335 images (0.78%) were classified as targeting the US, UK, Canada, or Australia, while 227 were labeled as universal advertisements. The remaining 2,620 images were associated with 88 other countries. This indicates over-representation of the Western culture in the dataset. Fig. 4 shows the distribution of advertisement images over the countries.

Our qualitative analysis on generating cultural advertisement represented in Fig. 5 and 7 (appx), shows that existing T2I models struggle in gener-



Figure 3: Example on different reasoning for choosing more persuasive images.



Figure 4: Distribution of advertisement images in PittAd dataset over different countries.



Figure 5: Examples of cultural image generation. Action-reason prompts: (a) I should drink this beer because it is as light as feather. (b) I should use this deodorant because it is as fresh as mint.

T2I model	VQA-score						
121 model	Average AR Country						
Baselines							
Flux	0.54	0.78	0.31				
SD3	0.70	0.78	0.63				
PixArt	0.54	0.67	0.42				
AuraFlow	0.70	0.76	0.66				
Ablations							
No cultural components	0.72	0.80	0.64				
Cultural components in early steps	0.67	0.52	0.83				
Cultural components in later steps	0.74	0.79	0.69				
No style image	0.73	0.68	0.78				
Multiple style images	0.74	0.68	0.79				
Ours							
CulGen	0.75	0.69	0.81				

Table 5: Cultural targeting evaluation. Flux, SD3, PixArt(Chen et al., 2024a), and AuraFlow use the country name in the prompt.

ating diverse cultural advertisement showing all cultures similar. Fig. 5 shows our method better re-

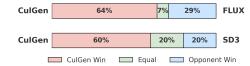


Figure 6: Images chosen by human annotator as better showing the target country.

flects the respective culture, e.g., crescent/religion (left), palms and city towers (right) for UAE, dragons and red-yellow color theme (right) for China, and French text and Eiffel tower (right) for France.

Quantitatively, Tab. 5 evaluates CulGen, using VQA-score (Lin et al., 2024) between generated images and AR or country name. Our method better targets the country and reflects the AR well, resulting in a higher AR-country average than four strong baselines. We also did an ablation on different design choices to show the effectiveness of each design and discuss the results in the appendix, Sec. A.3.2.

We further analyzed the quality of generated images, conducting human evaluation on 25 prompts for 4 different countries: France, China, UAE, and India (details in Sec. A.3.2). Fig. 6 represents the results of our human evaluation of the method highlighting the significant improvement of our proposed method compared to the baseline models when targeting specific countries and conveying the advertisement message.

#### 5 Conclusion

We analyzed racial and gender representation biases in real and T2I-generated advertisements. We showed perception biases of persuasivensess by MLLM and LLM judges in controlled experiments with nearly identical images. We showed promise of country targeting through cultural symbols.

#### 6 Limitations

In our analysis of real ads, we are limited by the ads included in PittAds, which are Western-centric and crawled from the web, so not reflecting ads in print media nor on TV/streaming platforms. In our analysis of demographics, we used DeepFace which is imperfect but we observed high accuracy. We also simplify racial/ethnic backgrounds to a fixed and small set of categories; these could be more numerous and non-overlapping. We simplify genders to only two, but note that GPT40 also outputs a significant number of non-binary classifications. In our analysis of how persuasion varies when elements of the ad are swapped, we only focused on gender and race. An exploration of how persuasion varies when symbols from different cultures are used might also be meaningful, but the data we use preclude us from doing so, because of entanglement of these symbols inside the action-reason statements. Finally, our cultural targeting is promising, but it is important to not over-exaggerate cultural symbolism, and to avoid stereotypization. To know the right level of targeting, we plan to work with members of the countries targeted to learn what is desirable and undesirable use of cultural symbols.

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### **A** Implementation Detail

## A.1 Analyzing Diversity in Real and Generated Ads

To evaluate diversity in real and generated advertisement images, we used the PittAds dataset for real ads and generated new images using pretrained text-to-image (T2I) models. Specifically, we used the Huggingface-hosted models: 'sd-community/sdxl-flash' for SDXL, 'fal/AuraFlow-v0.2' for AuraFlow, and 'black-forest-labs/FLUX.1-dev' for Flux. For AuraFlow, we also experimented with prompt expansion using LLAMA3-Instruct ('meta-llama/Meta-Llama-3-8B-Instruct) to provide a more detailed description of the ad content.

Listing 1: Prompt for Advertisement Image Generation {Blue} denotes elements added dynamically.

```
Generate an advertisement image that conveys the following message:
- {AR}
```

# A.2 Evaluating Persuasion Bias via Demographic Swaps

For persuasion evaluation, we used the OpenAI API's 'GPT-4-1' model to generate initial ad images and modify demographic attributes (e.g., race and gender) while keeping other content constant. We used 'GPT-40' to describe and edit the image captions accordingly. To evaluate persuasiveness, we employed several MLLMs as judges: 'OpenGVLab/InternVL2\_5-78B' (InternVL2.5), 'Qwen/Qwen2.5-VL-7B-Instruct' (QwenVL2.5), and OpenAI's GPT-40. Corresponding LLMs were also used as text-only judges: 'Qwen/Qwen2.5-7B-Instruct' (Qwen2.5), 'internlm/internlm2\_5-7b-chat' (InternLM2.5), and

the text-only version of GPT-4o. These models were prompted with pairs of images/descriptions inputs to select the more persuasive option, using chain-of-thought (CoT) reasoning. For each two images/descriptions we use both orders to remove the possible bias for specific indices in the models.

Listing 2: Prompt for editing the image to change the race of the main character. {Blue} denotes elements added dynamically.

```
replace the white person in the image
with a {race}person.
```

Listing 3: Prompt for editing the description to change the race of the main character. {Blue} denotes elements added dynamically.

In the following description, replace the 'white person' with '{race} person', changing the race characteristic of the person. Only return the new description without any further explanation. {description}

Listing 4: Prompt for LLM persuasion judgment. {Blue} denotes elements added dynamically.

Context: You are a helpful assistant

```
who chooses the more persuasive image.
Persuasion of the advertisement image
is the ability of the image to convince
the audience to take an action.
Question: Given the following two
advertisement descriptions, which
advertisement is more persuasive?
1. description 1. 2. description 2
First, explain the persuasion in each
description, and then return the more
persuasive description in the format of:
Explanation : ${Explanation}
Answer: ${index of more persuasive
description}
Discription 1: {Description1}
Description 2: {Description2}
```

Listing 5: Prompt for MLLM persuasion judgment.

Context: You are a helpful assistant

```
who ranks these images in terms of persuasion. Persuasion of the advertisement image is the ability of the image to convince the audience to take an action.

Question: Which image is more persuasive?

1. Image 1 2. Image 2.
First , explain the persuasion in each image and then answer. Your answer format is:

Explanation: ${explanation on persuasion of the images}
Answer: ${index of correct option}
```

#### A.3 Diversifying through country targeting

CulGen. To generate culturally-aware advertisement images, we build on the Huggingface implementation of SD3, using the pre-trained model 'stabilityai/stable-diffusion-3medium-diffusers'. As shown in Fig.2, we retain the original noise scheduler and diffusion module from SD3, and introduce a new component called the condition scheduler (light orange box in Fig.2). We first construct a database containing countries, corresponding advertisement images, and extracted cultural components for each country, based on our country prediction pipeline. Additionally, we prompt GPT-40 to map each country to a representative visual element, which we include as an extra cultural component. Given a target country, we randomly retrieve three relevant images from the database. We aggregate the cultural components from these images and randomly select one image to serve as a visual reference. Given the input prompt (light green border box), we encode it using the SD3 text encoder. During the early denoising time-steps, we condition the model only on the prompt embedding to ensure it follows the textual intent. In the middle time-steps, we generate embeddings for the cultural components and condition the model on concatenation of prompt embedding and cultural components embeddings. The embedding of the "reason" part of the AR (action-reason) is generated the same way. We also encode the reference image using a CLIP (Radford et al., 2021) image encoder and project it into the text embedding space using a linear layer. We then apply a cross-attention layer to project the cultural component embeddings onto the reason embedding. The output of this layer serves as the query in another cross-attention mechanism between the cultural components and the projected image embedding. Finally, we concatenate the resulting image embedding with the cultural, reason, and prompt embeddings to form the full conditioning vector for the late denoising steps. During training, we keep all SD3 modules and the CLIP encoder frozen, and only train the condition scheduler using the Dream-Booth method (Ruiz et al., 2023) on 250 images, with learning-rate 1e-5, batch-size 1, 4 gradient accumulation steps, for 500 steps.

#### A.3.1 Evaluation

To evaluate our proposed method, we compare our method against SD3 (Huggingface 'stabilityai/stable-diffusion-3-medium-diffusers'),

Flux (Hugginface 'black-forest-labs/FLUX.1-dev'), PixArt (Huggingface: 'PixArt-alpha/PixArt-XL-2-1024-MS'), and AuraFlow (Huggingface: 'fal/AuraFlow-v0.2'). We set the seed equal to 0 for image generation.

For action-reason statements, we prompted GPT40 with one example statement, to generate 100 advertisement statements following structure of 'I should drink this beer because it is as light as a feather.' We chose 5 countries across different cultures as China (East-Asian Culture), France (Western Culture), South Africa (African Culture), United Arab Emirates (Middle-eastern Culture), and Mexico (Latin Culture). And prompted the model to generate advertisement images targeting each of these countries, resulting in 500 test samples.

For our evaluation metrics, we used VQA-score (Lin et al., 2024), one of the most accurate testimage alignment scores. We first computed the alignment score between each image and action-reason statement. Next, we computed the alignment score between the country name and the corresponding image. Finally we computed the average of these two values as the score for each model. We report all three scores in Table 5.

#### A.3.2 Design Choice Ablation

We first removed the cultural components from denoising condition resulting in higher alignment with the action-reason statements and lower alignment with the country, showing the effectiveness of the cultural components on country representation. We evaluated the effectiveness of the time-step design by conditioning on cultural components starting in early time-steps and later time-steps keeping the rest of design as it is. Starting conditioning on cultural components in early steps results in high country representation but very low alignment with action-reason statement, showing that the use of cultural components from start to end results in focusing on culture representation and ignoring the advertisement message. On the other hand, use of cultural components in conditioning in later time-steps ("Cultural components in later steps") shows higher alignment with action-reason statement and lower representation of the country, i.e. aligning well and ignoring the target country. This shows the effectiveness of different conditioning in different time-steps, as we do in CulGen, thus confirming the advantages of our proposed design. We further analyze the effectiveness of the different

design modules by removing the style image from the conditions in the later time-steps ("No style image"). This represents both lower representation of the country and lower alignment with actionreason statements. We next increased the number of style images (Multiple style images) using all three examples instead of randomly choosing one. The result is slightly lower but comparable to that achieved by our proposed design (CulGen). This may be because using multiple images makes the condition more complex.

Listing 6: Prompt for Cultural Image Generation {Blue} denotes elements added dynamically.

```
Generate an advertisement image that
targets people from {country} conveying
the following message:
    - {AR}
```

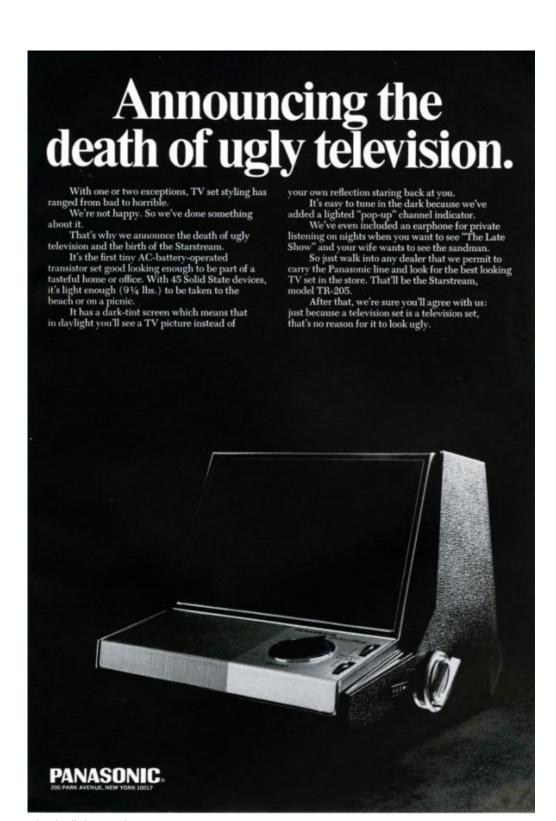
Human Evaluation on Cultural Image Generation: The annotators were from China (1 annotator), Middle East (2 annotators, 1 familiar with European culture), and India (1 annotator) to ensure the familiarity with the culture of each country. Each annotator was presented with two generated images targeting the country they were familiar with ordered randomly, and the corresponding action-reason statement. The annotators were asked to choose the image that better targets the people from the defined country while aligning with the message.

### **B** Qualitative Examples



Figure 7: Examples of images generated by CulGen (ours), SD3, Flux, PixArt, and AuraFlow models targeting China, South Africa, France, United Arab Emirates, and Mexico.

## Form



Check all that apply.



Check all that apply.

Argentina

Australia
Bangladesh
Belgium
Brazil
Canada
China
Denmark
Egypt
France
Greece
Guatemala
India

Indonesia

Iran

Italy
Japan
Mexico
Myanmar
Nepal
Norway
Oman
Pakistan
Peru
Puerto Rico
Qatar
Saudi Arabia
Singapore
South Korea
Spain
Sri Lanka
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom
United States





Check all that apply.

Argentina
Australia
Bangladesh
Belgium
Brazil
Canada
China
Denmark
Egypt
France
Greece
Guatemala
India
Indonesia
Iran
Italy
Japan
Mexico
Myanmar
Nepal
Norway
Oman
Pakistan
Peru
Puerto Rico
Qatar
Saudi Arabia
Singapore
South Korea
Spain
Sri Lanka
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom
United States



Argentina
Australia
Bangladesh
Belgium
Brazil
Canada
China
Denmark
Egypt
France
Greece
Guatemala
India
Indonesia

	Iran
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	Japan
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	Myanmar
	Nepal
	Norway
	Oman
	Pakistan
	Peru
	Puerto Rico
	Qatar
	Saudi Arabia
	Singapore
	South Korea
	Spain
	Sri Lanka
	Sweden
	Switzerland
	Taiwan
	Thailand
	Turkey
	United Arab Emirates
	United Kingdom
	United States





#### **Additional Features**

- Unlimited Mileage on Daily / Weekly Rentals

Basic Insurance Included\*

No Booking Fees

Free Cancellation

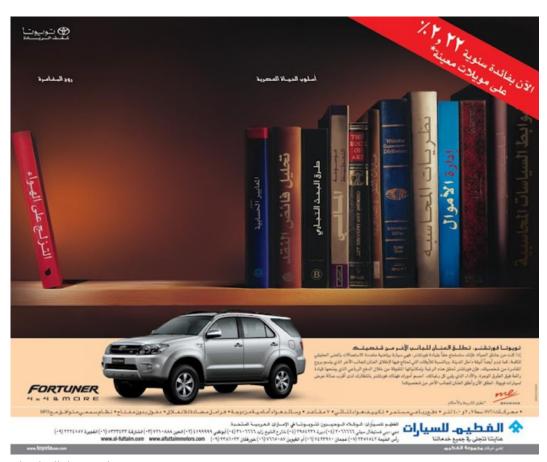


What's More: Exclusive Monthly Deals also available, starting AED 42 / Day.

\*Terms & Conditions applicable

Check all that apply.
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Australia
Bangladesh
Belgium
Brazil
Canada
China
Denmark
Egypt
France
Greece
Guatemala
India
Indonesia
Iran
Italy
Japan
Mexico
Myanmar
Nepal
Norway
Oman
Pakistan
Peru
Puerto Rico
Qatar
Saudi Arabia

Singapore	
South Korea	
Spain	
Sri Lanka	
Sweden	
Switzerland	
Taiwan	
Thailand	
Turkey	
United Arab Emira	ates
United Kingdom	
United States	



Check all that apply.

Argentina
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Egypt
France
Greece
Guatemala
India
Indonesia
Iran
Italy
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Mexico
Myanmar
Nepal
Norway
Oman
Pakistan
Peru
Puerto Rico
Qatar
Saudi Arabia
Singapore
South Korea
Spain
Sri Lanka
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom
United States



Check all that apply.

Argentina
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Denmark

Egypt
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Greece
Guatemala
India
Indonesia
Iran
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Puerto Rico
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Singapore
South Korea
Spain
Sri Lanka
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom
United States

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## Google Forms

									Topic-Gender									
	re	al	LLAMA3	instruct	FL	UX	DAL	LE3	aurai	low	LLAMA3 i	instruct	FLI	JX	DAL	LE3	Aura	Flow
	man	woman	man	woman	man	woman	man	woman	man	woman								
Alcohol	100.00%	0.00%	100.00%	0.00%					100.00%	0.00%	0.00%	0	-100.00%	0	-100.00%	0	0.00%	
Animal rights	36.36%	63.64%	70.00%	30.00%	33.33%	66.67%	0.00%	100.00%	62.50%	37.50%	33.64%	3.363636364	-3.03%	-0.1818181818	-36.36%	-0.3636363636	26.14%	2.09090909
Baby products					100.00%	0.00%	0.00%	100.00%	66.67%	33.33%	0.00%	0	100.00%	1	0.00%	0	66.67%	
Beauty product	34.62%	65.38%	39.29%	60.71%	33.33%	66.67%	58.46%	41.54%	48.57%	51.43%	4.67%	2.615384615	-1.28%	-0.1923076923	23.85%	15.5	13.96%	4.88461538
Cars	50.00%	50.00%	70.00%	30.00%	100.00%	0.00%	74.55%	25.45%	85.71%	14.29%	20.00%	10	50.00%	4.5	24.55%	13.5	35.71%	2.
Charities	75.00%	25.00%	90.00%	10.00%					100.00%	0.00%	15.00%	1.5	-75.00%	0	-75.00%	0	25.00%	0.2
Chips	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%	100.00%	0.00%	100.00%	2	0.00%	0	100.00%	3	100.00%	
Chocolate	100.00%	0.00%	75.00%	25.00%							-25.00%	-1	-100.00%	0	-100.00%	0	-100.00%	
Cleaning product	75.00%	25.00%	53.85%	46.15%			100.00%	0.00%			-21.15%	-2.75	-75.00%	0	25.00%	0.25	-75.00%	
Clothing and ac	41.51%	58.49%	51.52%	48.48%	38.00%	62.00%	63,25%	36.75%	65.52%	34.48%	10.01%	13.20754717	-3.51%	-1.754716981	21.74%	25.43396226	24.01%	13.924528
Coffee	0.00%	100.00%	0.00%	100.00%			100.00%	0.00%	100.00%	0.00%	0.00%	0	0.00%	0	100.00%	1	100.00%	
Domestic violer	75.00%	25.00%	50.00%	50.00%	66.67%	33.33%		0.007.0	85.71%	14.29%	-25.00%	-1.5	-8.33%	-0.25	-75.00%	0	10.71%	0.7
Education	100.00%	0.00%				,				,	-100.00%	0	-100.00%	0	-100.00%	0	-100.00%	-
Electronics	100.00%	0.00%	67.44%	32.56%	84.62%	15.38%	78.57%	21.43%	83.33%	16.67%	-32.56%	-14	-15.38%	-2	-21.43%	-9	-16.67%	
Environment	0.00%	0.00%	2470	22.50%	100.00%	0.00%	. 2.27 70	240%	22.50%		0.00%	0	100.00%	2	0.00%	0	0.00%	
Financial service	100.00%	0.00%	66.67%	33.33%	100.00%	0.00%			100.00%	0.00%	-33.33%	-1	0.00%	0	-100.00%	0	0.00%	
Sames and tovs	0.00%	0.00%	75.00%	25.00%	0.00%	100.00%			100.0070	0.0070	75.00%	3	0.00%	0	0.00%	0	0.00%	
Healthcare and n	57 14%	42.86%	55.56%	44 44%	33.33%	66.67%	100.00%	0.00%	100.00%	0.00%		-0.1428571429	-23.81%	-0.7142857143	42.86%	-	42.86%	0.857142857
Home appliances	100.00%	0.00%	71.43%	28.57%	00.0070	00.0170	100.00%	0.00%	100.00%	0.00%	-28.57%	-2	-100.00%	0.7142007140	0.00%	0.0071420071	0.00%	0.007 142007
Home improvem	100.00%	0.00%	71.4370	20.57 /6			100.00%	0.00%	100.0076	0.0076	-100.00%	0	-100.00%	0	0.00%	0	-100.00%	
Human rights	71.88%	28.13%	64.84%	35,16%	92.11%	7.89%	100.0076	0.0076	87.50%	12.50%	-7.04%	-6.40625	20.23%	7,6875	-71.88%	0	15.63%	1.2
Media and arts	76.92%	23.08%	71.43%	28.57%	0.00%	100.00%	60.00%	40.00%	100.00%	0.00%		-0.40025	-76.92%	-1.538461538	-16.92%	-	23.08%	0.923076923
Pet food	70.0276	25.00 /6	0.00%	100.00%	0.0076	100.0076	60.00 /6	40.00 /6	100.0076	0.0076	0.00%	0.3040133040	0.00%	-1.030401030	0.00%	0.0401330402	0.00%	0.023070023
Phone			62.50%	37.50%	50.00%	50.00%	87.50%	12.50%	100.00%	0.00%	62.50%	15	50.00%	1	87.50%	7	100.00%	
Political candidat	80.00%	20.00%	73.08%	26.92%	33.33%	66.67%	07.0070	12.3076	80.00%	20.00%	-6.92%	-1.8	-46.67%	-1.4	-80.00%	0	0.00%	
Political carididat Restaurants	100.00%	0.00%	80.00%	20.00%	100.00%	0.00%			00.00%	20.00%	-20.00%	-1.0	0.00%	-1.4	-100.00%	0	-100.00%	
Security and safe	100.00%	0.00%	80.0076	20.00%	0.00%	0.00%					-100.00%	0	-100.00%	0	-100.00%	0	-100.00%	
	62.86%		57.58%	42,42%	27.27%		100.00%	0.00%	64,71%	35,29%	-5.28%	-5.228571429	-35.58%	-3.914285714		1.485714286	1.85%	0.314285714
Self esteem	50.00%	37.14% 50.00%	57.58% 77.27%	42.42% 22.73%	80.00%	72.73% 20.00%	60.00%	40.00%	80.00%	20.00%	-5.28% 27.27%	-5.2285/1429 12	-35.58% 30.00%	-3.914285/14	37.14% 10.00%	1.485/14286	30.00%	0.314285/14
Shopping	73.33%			35.29%	55.56%	44.44%	60.00%	40.00%	100.00%	0.00%	-8.63%	-2.933333333	-17.78%	-1.6	-73.33%	2.5	26.67%	1.
Smoking		26.67%	64.71%				07.079/	72.73%								-		3.38461538
Soda	61.54%	38.46%	56.10%		66.67%	33.33%	27.27%		85.71%	14.29%	-5.44%	-2.230769231	5.13%	0.1538461538	-34.27%	-7.538461538 0	24.18%	
Software	100.00%	0.00%	0.00% 73.33%	100.00% 26.67%	100.00%	0.00%	100.00%	0.00%	0.00%	100.00%	-100.00% -16.67%	-14 -2.5	0.00% -6.67%	-0.4	0.00%	0	-100.00% 10.00%	
Sports equipmen		10.00%			83.33%	16.67%	90.00%	10.00%								0		1.
Unclear	80.00%	20.00%	100.00%	0.00% 50.00%	100.00%	0.00%	100.00%	0.00%	100.00%	0.00%	20.00%	0.6	20.00%	0.2	-80.00% 100.00%	2	20.00%	0.
Jnknown	0.00%	0.00%	50.00%				100.00%	0.00%				1						
Vacation and trav	0.00%	100.00%	66.67%	33.33%					100 000	0.0007	66.67%	6	0.00%	0	0.00%	0	0.00%	
dating	85.71%	12.50%	57.14%	42.86%					100.00%	0.00%	-28.57%	-2	-85.71%	0	-85.71%	0	14.29%	0.571428571
SUM												8.410171629		5.595470332	40.4	54.77856766		48.3006022
AVG											-5.04%		-18.90%		-18.30%		0.52%	
WEIGHTED AVG												1.07%		2.87%		14.81%		20.919
AVG TOP 10											0.51%		-3.81%		-15.41%		20.58%	
AVG TOP 5											5.93%		1.97%		4.17%		17.09%	
avg per gender	64.03%	24.16%	62.20%	37.80%	59.10%	36.90%	74.98%	25.02%	84.46%	15.54%								

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nducts	***	04	27%		516	5/16	100	eris.	410	2475	1416		9%		11'55		0%		100%	500	600	600	60	41	100%	93		12%	0%		0%	700			1005	200%	100%	
product	58%	8%	19%			- 65			1936	29%	25	-	10%	940	100%	-	9%	444	72%	2%	-	-	15		92%	470	470		9%		UTS.		-	200	100%	20010	25	
province	72%	706	17%	4%					2276	275	- 0		12%	11%	20%	44%	11%		423		100	200	200	270	99%	276	17%		0%		M 76	43445	200	2000	100	472%	120	
	0%	0%	6%	100%	200	606	10	**	20%	22%	20	070	22%	11-16	25.0	1176	11%	04	-		1616	/10	78		100%	276	775	275	0%		10%	4000	m.	200	200	200	100%	
									57%	9%	95		ANY	4000V	- 400		0%	- 444	22%	606		460	67%	- 00	100%	40	400	400	0%		10%	100%			200	100%	100%	
De .	0%	0%	62%	22%	2%	896		**	25%	25%	95	076	910	100%	UN	0.6	U.E.	04	n.e.		UNE .	516	W/ N		100/16				OR.		10%	200%	m.	506	20%	5%	2%	
g product	75%	25%	806	606	200	200		100	18%	22%	95	000							0%	0%	1000	600	609	4%							10%	-629%	250	606	- PAN	-79%	-1995	
g and ac	99%	9%	16%	6%	-	85	**	156	99%	22%	1%	576	72%	19%	4%	9%	4%	9%	66%	2%	14%	65	16%	15	625	2%	16%	9%	9%		1976	45191	4%	198%	.0%	41116	-19%	- 4
*****	100%	9%	2%	0%	200	2%		2%	2%	100%	20	9%							0%	9%	609	2%	2%	100%	276	25	275	100%	0%		225	-100%	-100%	9%	-100%	-100%	-100%	
SC Violence	75%	85	8%	8%	2%	9%		2%	12%	22%	95	9%	62%	20%	0%	0%	0%	0%							77%	165	16%	9%	0%		15%	-190%	-8%	-25%	-29%	9%	-65	
91	100%	0%	0%	0%	2%	9%																									20%	0%	-100%	6%	-100%	9%	-100%	
101	100%	0%	0%	6%	2%	600	9	rs.	27%	19%	95	9%	77%	0%	8%	8%	8%	0%	52%	0%	26%	2%	19%	9%	82%	2%	9%	9%	17%	0%	12%	-2700%	-23%	-900%	-65%	-2000%	-17%	
merc													50%	0%	0%	50%	0%	0%													0%	0%	50%	100%	0%	9%	2%	
of services	100%	0%	0%	0%	2%	2%	0	200	22%	9%	22%	9%	62%	20%	0%	0%	0%	0%							100%	9%	9%	9%	0%	0%	Ph.	-200%	-03%	-100%	-120%	6%	2%	
and toys							0	20%	52%	25%	0%	0%	0%	0%	100%	0%	0%	0%													15%	100%	0%	6%	6%	6%	0%	
ary and e	71%	0%	29%	0%	2%	2%	22	156	22%	9%	9%	9%	67%	0%	20%	0%	0%	0%	50%	0%	50%	2%	600	9%	100%	9%	9%	9%	0%	0%	100	-143%	-5%	-16%	-21%	-6%	28%	
pplance	100%	0%	0%	0%	0%	0%	16	rN.	42%	9%	0%	0%							100%	0%	0%	0%	0%	9%	100%	0%	0%	9%	0%	0%	Ph.	-400%	-100%	6%	6%	6%	0%	
mprovem	100%	0%	0%	0%	0%	696													50%	0%	0%	20%	50%	0%						-1	00%	0%	-100%	0%	-50%	-100%	-100%	
rights	66%	9%	6%	9%	8%	9%	16	1%	22%	12%	9%	2%	47%	5%	8%	13%	24%	ONL							62%	9%	9%	25%	13%	0%	15%	-0271%	-19%	490%	-66%	6%	-2%	
and arts	28%	23%	19%	8%	19%	0%	14	ris.	29%	14%	0%	9%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	9%	25%	9%	79%	9%	0%	0%	4%	31%	62%	123%	62%	308%	-13%	
							0	266	9%	9%	0%	0%																			00%	100%	0%	0%	6%	0%	2%	
							0	2%	32%	4%	4%		50%	0%	50%	0%	0%	0%	63%	25%	0%	13%	0%	9%	33%	9%	17%	17%	33%		18%	1400%	50%	100%	63%	500%	33%	
candidat	100%	0%	0%	0%	0%	0%	22	1%	19%	19%	8%	9%	100%	0%	0%	0%	0%	0%							62%	9%	22%	9%	20%	0%	2%	-1600%	0%	0%	-100%	0%	40%	
tarité.	100%	0%	6%	6%	0%	0%	0	20%	42%	0%	10%	0%	100%	0%	0%	0%	0%	0%													10%	-500%	0%	6%	-100%	6%	-100%	
yand safe	100%	0%	0%	0%	0%	0%																								-1	00%	0%	-100%	0%	-100%	6%	-100%	
leem .	77%	2%	14%	6%	6%	6%		1%	42%	28%	2%	45	662	9%	0%	18%	0%	9%	29%	6%	TWN	60%	0%	9%	47%	12%	29%	12%	0%	0%	17%	-6437%	-54%	-149%	-82%	-229%	-20%	
ing	92%	0%	8%	8%	8%	6%	2	1%	32%	18%	2%	9%	72%	20%	10%	016	0%	01L	52%	16%	8%	4%	20%	9%	72%	7%	7%	7%	7%	0%	16%	-2034%	42%	417%	-40%	492%	-18%	
0	87%	7%	0%	0%	2%	0%	12	2%	21%	3%	0%	3%	33%	11%	11%	22%	22%	0%							67%	17%	0%	9%	17%		15%	-847%	-63%	-680%	-87%	6%	-20%	
	25%	0%	0%	0%	8%	8%	22	196	12%	22%	5%		100%	0%	0%	0%	0%	0%	50%	9%	27%	9%	5%	0%	29%	7%	7%	0%	7%		10%	-2069%	19%	46%	-35%	-762%	-6%	
	0%	0%	0%	100%	0%	0%	29	106	50%	9%		21%	0%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	9%	0%	9%	9%	9%			0%	ON.	ON.	0%	100%	100%	0%	
equipmen	90%	0%	0%	6%	10%	0%		Mi.	33%	12%	0%	0%	33%	17%	50%	0%	0%	0%	80%	6%	10%	0%	10%	9%	45%	9%	18%	27%	0%		13%	460%	-67%	-540%	-10%	-100%	46%	
	100%	0%	0%	6%	0%	0%	0	2%	33%	33%	0%	0%	100%	0%	0%	0%	0%	0%							100%	9%	0%	0%	0%		P%	-200%	0%	0%	-100%	0%	0%	
	-				-			20%	9%	50%	0%	0%							50%	50%	0%	0%	0%	9%							10%	100%	0%	0%	50%	100%	0%	
and tra-	0%	0%	0%	100%	2%	0%	17	1%	22%	22%	0%	0%						_													Ph.	600%	0%	0%	0%	6%	0%	
	20%	0%	56%	0%	0%	0%		20%	16%	16%	16%	0%						_							100%	9%	0%	0%	0%	0%	29%	-200%	-86%	0%	-86%	0%	14%	
_												-1						_												- 1		26241%		-2048%		-2884%		
160.6/0													_			_		_			_			_							12%	96%	43%	-11%	-27%		-10%	
																																oes.		-11%		4%		
P 10																														-	19%		-7%		-29%		-10%	
	72%		4%	1996	- 15	all			16%	19%	-	-	56%	11%	1975	100	46	-	60%	400	17%		10%	5%	70%	476	10%	15	45	45	9%		- 4%		- 28%		-14%	
1949	72%	25	25	13%	2%	7%		-	-			176		11.00			44	o b	40%	45	17%	416	rack	-76	75%	**	***		***			ry from white					ration least bias	_

								IU	Jic - Fersuasion v	Vinner Race									
				GPT4						QWer						Intern			
topic	total	asian	black	indian	latino	middle_eastern	white	asian	black	indian	latino	middle_eastern	white	asian	black	indian	latino	middle_eastern	white
ars, automobiles, ca	1140	14.65%	14.30%	11.67%	16.23%	14.47%	28.68%	13.68%	16.67%	15.35%	16.84%	15.35%	22.11%	16.93%	17.54%	14.30%	15.18%	18.68%	17.37%
lothing and accessor	1140	13.16%	13.07%	16.23%	15.96%	14.04%	27.54%	13.25%	15.00%	17.37%	16.58%	15.53%	22.28%	16.40%	17.11%	16.14%	16.75%	14.65%	18.95%
lectronics, computer	750	15.33%	14.80%	13.87%	14.27%	14.67%	27.07%	13.20%	14.93%	15.33%	16.00%	18.00%	22.53%	14.53%	16.40%	15.73%	16.40%	17.73%	19.20%
leauty products and (	690	11.01%	13.77%	17.39%	14.64%	16.96%	26.23%	12.03%	15.51%	17.54%	16.96%	16.09%	21.88%	14.49%	17.54%	17.54%	17.54%	15.22%	17.68%
oda, juice, milk, ener	450	18.22%	12.00%	12.00%	13.56%	18.44%	25.78%	14.89%	15.56%	15.33%	14.44%	18.67%	21.11%	16.00%	16.67%	13.78%	16.22%	18.44%	18.89%
icohol	120	12.50%	11.67%	16.67%	12.50%	14.17%	32.50%	13.33%	17.50%	15.00%	16.67%	14.17%	23.33%	18.33%	13.33%	15.00%	16.67%	15.83%	20.83%
hone, TV and interne	120	7.50%	22.50%	16.67%	15.00%	14.17%	24.17%	5.00%	22.50%	19.17%	20.00%	10.00%	23.33%	16.67%	21.67%	17.50%	15.83%	14.17%	14.17%
Shopping, department	120	15.00%	16.67%	5.83%	16.67%	14.17%	31.67%	6.67%	18.33%	14.17%	18.33%	15.00%	27.50%	12.50%	13.33%	20.00%	18.33%	15.00%	20.83%
Chocolate, cookies, ci	90	16.67%	11.11%	16.67%	22.22%	12.22%	21.11%	14.44%	16.67%	17.78%	18.89%	16.67%	15.56%	15.56%	16.67%	15.56%	20.00%	14.44%	17.78%
inancial services, ba	90	15.56%	5.56%	21.11%	21.11%	15.56%	21.11%	15.56%	15.56%	18.89%	14.44%	16.67%	18.89%	20.00%	17.78%	16.67%	15.56%	12.22%	17.78%
lome appliances, cof	90	15.56%	14.44%	20.00%	16.67%	10.00%	23.33%	14.44%	16.67%	13.33%	21.11%	10.00%	24.44%	23.33%	18.89%	8.89%	14.44%	15.56%	18.89%
fedia and arts, TV sh	90	10.00%	11.11%	20.00%	8.89%	17.78%	32.22%	11.11%	12.22%	14.44%	14.44%	20.00%	27.78%	11.11%	21.11%	15.56%	13.33%	17.78%	21.11%
offee, tea	60	10.00%	23.33%	13.33%	20.00%	13.33%	20.00%	13.33%	16.67%	18.33%	16.67%	16.67%	18.33%	8.33%	23.33%	15.00%	16.67%	15.00%	21.67%
sames and toys, inclu	60	16.67%	11.67%	8.33%	16.67%	13.33%	33.33%	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	15.00%	16.67%	20.00%	11.67%	20.00%	16.67%
sports equipment and	60	10.00%	6.67%	10.00%	23.33%	20.00%	30.00%	11.67%	15.00%	16.67%	16.67%	20.00%	20.00%	13.33%	13.33%	18.33%	15.00%	20.00%	20.00%
Inclear	60	21.67%	10.00%	16.67%	26.67%	3.33%	21.67%	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	10.00%	23.33%	15.00%	20.00%	15.00%
nimal rights, animal	30	10.00%	13.33%	20.00%	13.33%	23.33%	20.00%	16.67%	16.67%	13.33%	16.67%	20.00%	16.67%	6.67%	20.00%	16.67%	20.00%	16.67%	20.00%
laby products, baby f	30	20.00%	10.00%	6.67%	33.33%	3.33%	26.67%	16.67%	13.33%	16.67%	16.67%	16.67%	20.00%	16.67%	13.33%	16.67%	16.67%	23.33%	13.33%
Celebrity Fashion new	30	20.00%	3.33%	26.67%	13.33%	3.33%	33.33%	20.00%	6.67%	26.67%	6.67%	10.00%	30.00%	16.67%	16.67%	10.00%	13.33%	16.67%	26.67%
Chips, snacks, nuts, fi	30	10.00%	6.67%	16.67%	13.33%	23.33%	30.00%	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	13.33%	10.00%	23.33%	13.33%	16.67%	23.33%
Cleaning products, de	30	16.67%	6.67%	33.33%	10.00%	6.67%	26.67%	26.67%	6.67%	26.67%	0.00%	13.33%	26.67%	23.33%	10.00%	16.67%	6.67%	13.33%	30.00%
Restaurants, cafe, fas	30	6.67%	16.67%	10.00%	13.33%	20.00%	33.33%	13.33%	16.67%	16.67%	16.67%	10.00%	26.67%	30.00%	6.67%	20.00%	6.67%	13.33%	23.33%
		6.67%	16.67%	6.67%	13.33%		33.33%	13.33%	16.67%	16.67%	16.67%	16.67%	26.67%	16.67%	16.67%	16.67%	16.67%	13.33%	20.00%
acation and travel, a	30					10.00%													
ondems	30	20.00%	13.33%	16.67%	6.67%	10.00%	33.33%	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	23.33%	20.00%	20.00%	13.33%	6.67%
lating, tax, legal, loan	30	6.67%	13.33%	20.00%	23.33%	6.67%	30.00%	16.67%	13.33%	16.67%	16.67%	16.67%	20.00%	13.33%	16.67%	13.33%	20.00%	23.33%	13.33%
	5400	13.96%	13.56%	14.61%	15.72%	14.78%	27.37%	13.30%	15.76%	16.39%	16.44%	16.09%	22.02%	15.91%	16.98%	15.81%	16.19%	16.65%	18.46%
topic	total			GPT	40					QWen	LM					Intern	LM.		
		asian	black	indian	latino	middle eastern	white	asian	black	indian	latino	middle eastern	white	asian	black	indian	latino	middle eastern	white
Clothing and accessor	1140	asian 16.90%	black 20.39%	indian 18.91%	latino 17.91%		white 6.98%	asian 11.40%	black 14.26%	indian 11.55%	latino 13.95%		white 8.84%	asian 12.40%	black 14.81%	indian 13.10%	latino 15.04%	middle_eastern 10.23%	white 8.
						middle_eastern 18.91% 17.89%						middle_eastern 12.09% 10.49%							
Cars, automobiles, ca	1140 1076	16.90% 17.48%	20.39% 19.19%	18.91% 18.46%	17.91% 18.54%	18.91% 17.89%	6.98% 8.46%	11.40% 11.06%	14.26% 13.09%	11.55% 10.89%	13.95% 12.76%	12.09% 10.49%	8.84% 7.56%	12.40% 12.36%	14.81% 12.60%	13.10% 11.71%	15.04% 15.20%	10.23% 10.33%	8.
Cars, automobiles, ca Electronics, computer	1140 1076 708	16.90% 17.48% 17.31%	20.39% 19.19% 18.72%	18.91% 18.46% 17.95%	17.91% 18.54% 19.74%	18.91% 17.89% 16.92%	6.98% 8.46% 9.36%	11.40% 11.06% 12.05%	14.26% 13.09% 14.74%	11.55% 10.89% 11.79%	13.95% 12.76% 13.46%	12.09% 10.49% 11.54%	8.84% 7.56% 9.49%	12.40% 12.36% 14.74%	14.81% 12.60% 15.64%	13.10% 11.71% 14.36%	15.04% 15.20% 18.08%	10.23% 10.33% 12.05%	8. 8. 9.
Cars, automobiles, ca Electronics, computer Beauty products and c	1140 1076 708 661	16.90% 17.48% 17.31% 17.73%	20.39% 19.19% 18.72% 20.93%	18.91% 18.46% 17.95% 18.93%	17.91% 18.54% 19.74% 18.40%	18.91% 17.89% 16.92% 19.07%	6.98% 8.46% 9.36% 4.93%	11.40% 11.06% 12.05% 12.13%	14.26% 13.09% 14.74% 14.67%	11.55% 10.89% 11.79% 11.07%	13.95% 12.76% 13.46% 13.07%	12.09% 10.49% 11.54% 12.00%	8.84% 7.56% 9.49% 9.07%	12.40% 12.36% 14.74% 11.73%	14.81% 12.60% 15.64% 15.07%	13.10% 11.71% 14.36% 13.47%	15.04% 15.20% 18.08% 14.80%	10.23% 10.33% 12.05% 12.27%	8. 8. 9.
Cars, automobiles, ca Electronics, computer leauty products and code, juice, milk, ener	1140 1076 708 661 495	16.90% 17.48% 17.31% 17.73% 17.54%	20.39% 19.19% 18.72% 20.93% 19.47%	18.91% 18.46% 17.95% 18.93% 17.19%	17.91% 18.54% 19.74% 18.40% 20.53%	18.91% 17.89% 16.92% 19.07% 18.77%	6.98% 8.46% 9.36% 4.93% 6.49%	11.40% 11.06% 12.05% 12.13% 10.00%	14.26% 13.09% 14.74% 14.67% 13.86%	11.55% 10.89% 11.79% 11.07% 12.11%	13.95% 12.76% 13.46% 13.07% 14.04%	12.09% 10.49% 11.54% 12.00% 11.58%	8.84% 7.56% 9.49% 9.07% 6.84%	12.40% 12.36% 14.74% 11.73% 10.88%	14.81% 12.60% 15.64% 15.07% 12.11%	13.10% 11.71% 14.36% 13.47% 12.98%	15.04% 15.20% 18.08% 14.80% 13.68%	10.23% 10.33% 12.05% 12.27% 10.18%	8 8 9 8
Cars, automobiles, ca electronics, computer leauty products and coods, juice, milk, ener sports equipment and	1140 1076 708 661 495 137	16.90% 17.48% 17.31% 17.73% 17.54% 20.00%	20.39% 19.19% 18.72% 20.93% 19.47% 16.00%	18.91% 18.46% 17.95% 18.93% 17.19% 20.00%	17.91% 18.54% 19.74% 18.40% 20.53% 21.33%	18.91% 17.89% 16.92% 19.07% 18.77% 18.00%	6.98% 8.46% 9.36% 4.93% 6.49% 4.67%	11.40% 11.06% 12.05% 12.13% 10.00% 12.00%	14.26% 13.09% 14.74% 14.67% 13.86% 15.33%	11.55% 10.89% 11.79% 11.07% 12.11% 14.00%	13.95% 12.76% 13.46% 13.07% 14.04% 16.67%	12.09% 10.49% 11.54% 12.00% 11.58% 12.67%	8.84% 7.56% 9.49% 9.07% 6.84% 9.33%	12.40% 12.36% 14.74% 11.73% 10.88% 14.00%	14.81% 12.60% 15.64% 15.07% 12.11% 14.67%	13.10% 11.71% 14.36% 13.47% 12.98% 12.67%	15.04% 15.20% 18.08% 14.80% 13.68%	10.23% 10.33% 12.05% 12.27% 10.18% 12.00%	8 8 9 8 8
cars, automobiles, ca lectronics, computer eauty products and coda, juice, milk, ener ports equipment and loohol	1140 1076 708 661 495 137 115	16.90% 17.48% 17.31% 17.73% 17.54% 20.00% 17.50%	20.39% 19.19% 18.72% 20.93% 19.47% 16.00% 23.33%	18.91% 18.46% 17.95% 18.93% 17.19% 20.00% 17.50%	17.91% 18.54% 19.74% 18.40% 20.53% 21.33% 17.50%	18.91% 17.89% 16.92% 19.07% 18.77% 18.00% 20.00%	6.98% 8.46% 9.36% 4.93% 6.49% 4.67% 4.17%	11.40% 11.06% 12.05% 12.13% 10.00% 12.00% 16.67%	14.26% 13.09% 14.74% 14.67% 13.86% 15.33% 20.00%	11.55% 10.89% 11.79% 11.07% 12.11% 14.00% 16.67%	13.95% 12.76% 13.46% 13.07% 14.04% 16.67% 17.50%	12.09% 10.49% 11.54% 12.00% 11.58% 12.67% 15.83%	8.84% 7.56% 9.49% 9.07% 6.84% 9.33% 13.33%	12.40% 12.36% 14.74% 11.73% 10.88% 14.00% 17.50%	14.81% 12.60% 15.64% 15.07% 12.11% 14.67% 17.50%	13.10% 11.71% 14.36% 13.47% 12.98% 12.67% 18.33%	15.04% 15.20% 18.08% 14.80% 13.68% 18.00%	10.23% 10.33% 12.05% 12.27% 10.18% 12.00% 14.17%	8 8 9 8 8 8
cars, automobiles, ca lectronics, computer eauty products and coda, juice, milk, ener ports equipment and loohol thone, TV and interne	1140 1076 708 661 495 137 115	16.90% 17.48% 17.31% 17.73% 17.54% 20.00% 17.50%	20.39% 19.19% 18.72% 20.93% 19.47% 16.00% 23.33% 15.83%	18.91% 18.46% 17.95% 18.93% 17.19% 20.00% 17.50% 18.33%	17.91% 18.54% 19.74% 18.40% 20.53% 21.33% 17.50% 21.67%	18.91% 17.89% 16.92% 19.07% 18.77% 18.00% 20.00%	6.98% 8.46% 9.36% 4.93% 6.49% 4.67% 4.17% 7.50%	11.40% 11.06% 12.05% 12.13% 10.00% 12.00% 16.67% 15.83%	14.26% 13.09% 14.74% 14.67% 13.86% 15.33% 20.00%	11.55% 10.89% 11.79% 11.07% 12.11% 14.00% 16.67% 15.83%	13.95% 12.76% 13.46% 13.07% 14.04% 16.67% 17.50% 20.83%	12.09% 10.49% 11.54% 12.00% 11.58% 12.67% 15.83% 16.67%	8.84% 7.56% 9.49% 9.07% 6.84% 9.33% 13.33%	12.40% 12.36% 14.74% 11.73% 10.88% 14.00% 17.50%	14.81% 12.60% 15.64% 15.07% 12.11% 14.67% 17.50% 19.17%	13.10% 11.71% 14.36% 13.47% 12.98% 12.67% 18.33% 17.50%	15.04% 15.20% 18.08% 14.80% 13.68% 18.00% 18.33% 20.83%	10.23% 10.33% 12.05% 12.27% 10.18% 12.00% 14.17% 13.33%	8 8 9 8 8 8 14
ars, automobiles, ca lectronics, computer eauty products and c oda, juice, milk, ener ports equipment and lcohol hone, TV and interne hopping, department	1140 1076 708 661 495 137 115 121	16.90% 17.48% 17.31% 17.73% 17.54% 20.00% 17.50% 18.33%	20.39% 19.19% 18.72% 20.93% 19.47% 16.00% 23.33% 15.83% 20.00%	18.91% 18.46% 17.95% 18.93% 17.19% 20.00% 17.50% 18.33% 15.83%	17.91% 18.54% 19.74% 18.40% 20.53% 21.33% 17.50% 21.67% 19.17%	18.91% 17.89% 16.92% 19.07% 18.77% 18.00% 20.00% 18.33% 17.50%	6.98% 8.46% 9.36% 4.93% 6.49% 4.67% 4.17% 7.50% 9.17%	11.40% 11.06% 12.05% 12.13% 10.00% 12.00% 16.67% 15.83% 9.17%	14.26% 13.09% 14.74% 14.67% 13.86% 15.33% 20.00% 19.17% 10.83%	11.55% 10.89% 11.79% 11.07% 12.11% 14.00% 16.67% 15.83% 7.50%	13.95% 12.76% 13.46% 13.07% 14.04% 16.67% 17.50% 20.83% 10.00%	12.09% 10.49% 11.54% 12.00% 11.58% 12.67% 15.83% 16.67% 7.50%	8.84% 7.56% 9.49% 9.07% 6.84% 9.33% 13.33% 11.67% 5.00%	12.40% 12.36% 14.74% 11.73% 10.88% 14.00% 17.50% 6.67%	14.81% 12.60% 15.64% 15.07% 12.11% 14.67% 17.50% 19.17% 8.33%	13.10% 11.71% 14.36% 13.47% 12.98% 12.67% 18.33% 17.50%	15.04% 15.20% 18.08% 14.80% 13.68% 18.00% 18.33% 20.83% 10.00%	10.23% 10.33% 12.05% 12.27% 10.18% 12.00% 14.17% 13.33% 7.50%	8 8 9 8 8 8 14 11.
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care, automobiles, care lectoroics, computer eauty products and c ods, juice, milk, enei ports equipment and lochol home, TV and interni hopping, department hopping home hopping home home home home home home home home	1140 1076 708 661 495 137 115 121 96 80 75 58 81 47 77 29 24 47 29 24 20 29 30	16.80% 17.45% 17.31% 17.31% 17.31% 17.31% 17.31% 17.31% 17.55% 20.00% 17.55% 18.33% 18.33% 15.55% 18.88% 15.55% 16.67% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 16.33% 17.77% 18.33% 16.33% 16.33% 17	20.39%, 19.19%, 19.19%, 20.39%, 20.39%, 19.19%, 20.33%, 16.00%, 23.33%, 20.00%, 21.13%, 20.00%, 17.78%, 16.67%, 21.167%, 21.67%, 21.67%, 23.33%, 23.33%, 23.33%, 23.33%, 23.35%, 24.667%, 16.67%, 16.67%, 16.67%, 16.67%, 16.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 26.6	18.91% (18.91%) 18.91% (18.91%) 17.95% (18.93%) 17.95% (18.93%) 17.95% (19.91%) 17.55% (18.93%) 18.85% (18.67%) 18.85% (18.95%) 19.00% (18.33%) 15.00% (18.33%) 15.00% (28.67%) 20.00% (28.67%) 20.00% (28.67%) 20.00%	17,91% 18,54% 18,40% 18,40% 20,53% 21,33% 17,50% 21,17% 13,33% 17,78% 18,89% 17,78% 15,56% 16,67% 16,67% 16,67% 23,33%	18.91% 17.88% 16.92% 19.07% 18.00% 18.27% 18.00% 18.23% 17.50% 18.33% 17.50% 18.88% 18.88% 19.778% 28.33% 21.67% 20.00% 16.67% 13.33% 2	6.98% 8.46% 9.56% 4.93% 4.65% 4.93% 4.67% 4.77% 7.56% 9.17% 10.00% 11.11% 5.00% 6.67% 0.00% 11.00% 11.67% 0.00% 16.67% 0.00% 16.67% 0.00% 6.67% 0.00%	11.40% 11.05% 12.05% 12.13% 12.05% 12.05% 13.13% 13.05% 13.05% 13.05% 13.05% 13.33% 13.13% 13.33% 13	14.26% 13.09% 14.74% 14.67% 14.74% 15.33% 20.00% 15.33% 13.35% 20.00% 15.33% 13.33% 13.33% 10.00% 14.44% 20.00% 16.67% 10.00% 20	11.55% 10.88% 11.55% 11.55% 11.55% 11.55% 12.15% 14.00% 15.63% 7.50% 11.15% 14.15% 15.65% 6.65% 6.65% 6.65% 6.65% 6.65% 0.00% 16.67% 16	13,95% 12,76% 13,46% 13,07% 14,04% 16,67% 10,00% 10,00% 12,22% 14,44% 0,00% 15,56% 18,33% 20,00% 20,00% 20,00% 16,67% 16,67%	12.09% 10.49% 11.54% 12.00% 11.54% 12.00% 11.54% 12.00% 11.58% 12.67% 15.63% 16.67% 11.11% 11.11% 10.00% 16.67% 13.33% 0.00% 16.67% 16.	8.84%, 7.56%, 9.49%, 9.75%, 9.49%, 9.77%, 9.77%, 9.33%, 13.33%, 11.87%, 7.76%, 0.00%, 7.76%, 5.00%, 8.33%, 16.67%, 0.00%, 13.33%, 16.67%, 0.00%, 13.33%, 16.67%, 13.33%, 10.00%, 13.33%, 10.00%, 13.33%, 10.00%, 13.33%, 10.00	12.40% 12.30% 14.74% 11.73% 11.60% 15.60% 15.60% 17.75% 16.67% 10.00% 17.76% 10.00% 17.76% 10.00% 17.76% 10.00% 11.11% 15.00% 13.33% 10.67% 0.00% 13.33% 10.67% 13.33% 10.00% 10.00% 10.	14.81% 12.60% 15.07% 15.04% 15.07% 12.11% 14.67% 17.50% 13.17% 13.17% 14.67% 17.50% 15.00% 15.00% 15.00% 15.33% 11.67% 23.33% 10.00% 23.33% 13.33% 30.00%	13,10% 11,71% 14,36% 14,36% 12,86% 12,86% 12,87% 12,50% 12,50% 12,50% 11,11% 12,22% 15,00% 15,00% 16,67% 20,00% 16,67% 0,00%	15.04% 15.20% 14.80% 14.80% 13.86% 18.00% 18.33% 10.00% 0.00% 0.00% 13.33% 22.33% 23.33% 11.67% 16.67% 10.00% 0.00% 10.00% 11.67%	10.29% 12.20% 12.20% 12.27% 10.18% 12.00% 14.17% 13.33% 7.50% 11.11% 13.33% 16.67% 6.67% 6.67% 13.33% 16.67% 13.33%	8 8 8 8 8 8 8 8 144 111 5 5 7 7 15 5 6 0 0 1 3 3 8 6 6 1 3 6 6 1 3 6 6 1 3 6 6 6 1 3 6 6 6 6
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Ciolining and accessor.  Jacks authoribles, cai  Zaers, authoribles, cai  Zaers, authoribles, cai  Zaers, authoribles, cai  Zaed, zaers, cai  Zaers, authoribles, cai  Zaers, authoribles, cai  Zaers, authoribles, cai  Zaers, cai  Zaers	1140 1076 708 661 495 137 115 121 96 80 75 58 81 47 77 29 24 47 29 24 20 29 30	16.90% 17.45% 17.31% 17.31% 17.31% 17.31% 17.31% 17.53% 17.54% 20.00% 17.55% 18.33% 15.56% 18.93% 15.56% 18.93% 10.00% 13.33% 20.00% 13.33% 20.00% 13.33% 20.00% 20	20.39%, 19.19%, 19.19%, 20.39%, 20.39%, 19.19%, 20.33%, 16.00%, 23.33%, 20.00%, 21.13%, 20.00%, 17.78%, 16.67%, 21.167%, 21.67%, 21.67%, 23.33%, 23.33%, 23.33%, 23.33%, 23.35%, 24.667%, 16.67%, 16.67%, 16.67%, 16.67%, 16.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 21.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 20.00%, 26.67%, 26.6	18.91% 18.46% 17.59% 18.33% 17.19% 20.00% 17.50% 18.33% 15.83% 15.83% 16.67% 18.39% 20.00% 18.33% 10.00% 20.00% 18.33% 10.00% 20.00% 18.33% 20.00% 18.33% 20.00%	17,91% 18,54% 19,74% 18,40% 19,74% 18,40% 20,53% 17,50% 21,33% 19,17% 19,17% 18,85% 15,00% 15,00% 23,33% 16,67% 23,33% 16,67% 23,33% 16,67% 23,33% 16,67% 21,00% 21	18.91% 17.99% 16.92% 19.07% 18.00% 18.77% 18.00% 18.33% 17.50% 15.56% 18.69% 11.15% 17.78% 20.00% 18.33% 18.33% 18.33% 18.33% 23.33% 18.33% 23.33% 18.67% 23.33%	6.98% 8.46% 9.38% 4.93% 4.67% 4.67% 4.17% 7.50% 9.17% 10.00% 15.56% 11.11% 5.00% 6.67% 3.33% 10.00% 0.00% 0.00% 0.00% 10.00%	11.40% 11.05% 12.05% 12.13% 12.05% 12.05% 13.13% 13.05% 13.05% 13.05% 13.05% 13.33% 13.13% 13.33% 13	14.26% 13.09% 14.74% 14.67% 14.74% 15.33% 20.00% 15.33% 13.35% 20.00% 15.33% 13.33% 13.33% 10.00% 14.44% 20.00% 16.67% 10.00% 20	11.55% 10.89% 11.79% 11.79% 11.79% 11.79% 11.79% 12.11% 14.00% 16.67% 15.83% 7.50% 11.11% 11.11% 11.11% 15.83% 16.67% 15.67% 16.	13,95% 12,76% 13,46% 13,07% 14,04% 16,67% 10,00% 10,00% 12,22% 14,44% 0,00% 15,56% 18,33% 20,00% 20,00% 20,00% 16,67% 16,67%	12 09% 10.49% 11.54% 12.00% 11.54% 12.00% 11.54% 12.00% 11.55% 12.67% 15.63% 16.67% 10.00% 11.11% 0.00% 11.11% 0.00% 15.65% 16.67% 13.33% 16.67% 15.65% 16.67% 15.00% 16.67% 15.00% 16.67% 15.00% 16.67% 16.67% 16.60% 16.67% 16.60% 16.6	8.84%, 7.56%, 9.49%, 9.75%, 9.49%, 9.77%, 9.77%, 9.33%, 13.33%, 11.87%, 7.76%, 0.00%, 7.76%, 5.00%, 8.33%, 16.67%, 0.00%, 13.33%, 16.67%, 0.00%, 13.33%, 16.67%, 13.33%, 10.00%, 13.33%, 10.00%, 13.33%, 10.00%, 13.33%, 10.00	12.40% 12.30% 14.74% 11.73% 11.60% 15.60% 15.60% 17.75% 16.67% 10.00% 17.76% 10.00% 17.76% 10.00% 17.76% 10.00% 11.11% 15.00% 13.33% 10.67% 0.00% 13.33% 10.67% 13.33% 10.00% 10.00% 10.	14.81% 12.60% 15.07% 15.04% 15.07% 12.11% 14.67% 17.50% 13.17% 13.17% 14.67% 17.50% 15.00% 15.00% 15.00% 15.33% 11.67% 23.33% 10.00% 23.33% 13.33% 30.00%	13.10% 11.71% 14.36% 13.47% 12.86% 12.86% 12.50% 17.50% 12.50% 11.11% 12.22% 0.00% 8.33% 6.67% 20.00% 16.67% 20.00% 16.67% 20.00%	15.04% 15.20% 14.80% 14.80% 13.88% 18.00% 18.33% 10.00% 10.00% 20.33% 22.33% 22.00% 10.00% 10.00% 11.67% 10.00% 10.00% 20	10.29% 12.20% 12.20% 12.27% 10.18% 12.00% 14.17% 13.33% 7.50% 11.11% 13.33% 16.67% 6.67% 6.67% 13.33% 16.67% 13.33%	8.

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	GP	T40	QW	enVL	Intern	VL2.5
topic	man	woman	man	woman	man	woman
Clothing and accessories, jeans, shoes, eye glasses, handbags, watches, jewelry	28.97%	59.31%	59.31%	40.69%	45.52%	54.48%
Cars, automobiles, car sales, auto parts, car insurance, car repair, gas, motor oil	31.95%	56.02%	63.16%	36.84%	31.95%	66.92%
Beauty products and cosmetics	31.46%	61.24%	51.69%	48.31%	52.25%	47.75%
Electronics, computers, laptops, tablets, cellphones, TVs	32.58%	48.31%	61.80%	38.20%	44.94%	55.06%
Soda, juice, milk, energy drinks, water	33.33%	61.54%	50.00%	50.00%	47.44%	52.56%
Alcohol	37.50%	54.17%	39.58%	60.42%	39.58%	60.42%
Phone, TV and internet service providers	38.89%	55.56%	72.22%	27.78%	50.00%	50.00%
Financial services, banks, credit cards, investment firms	20.83%	50.00%	66.67%	33.33%	50.00%	50.00%
Games and toys, including video and mobile games	41.67%	45.83%	50.00%	50.00%	29.17%	70.83%
Media and arts, TV shows, movies, musicals, books, audio books	37.50%	50.00%	62.50%	37.50%	20.83%	79.17%
Sports equipment and activities	45.83%	41.67%	79.17%	20.83%	45.83%	54.17%
Animal rights, animal abuse	50.00%	33.33%	83.33%	16.67%	33.33%	66.67%
Baby products, baby food, sippy cups, diapers	66.67%	33.33%	50.00%	50.00%	25.00%	75.00%
Chips, snacks, nuts, fruit, gum, cereal, yogurt, soups	25.00%	58.33%	75.00%	25.00%	33.33%	66.67%
Chocolate, cookies, candy, ice cream	8.33%	75.00%	58.33%	41.67%	16.67%	83.33%
Cleaning products, detergents, fabric softeners, soap, tissues, paper towels	58.33%	41.67%	33.33%	66.67%	50.00%	50.00%
Coffee, tea	0.00%	58.33%	75.00%	25.00%	66.67%	33.33%
Restaurants, cafe, fast food	91.67%	8.33%	83.33%	16.67%	58.33%	41.67%
Shopping, department stores, drug stores, groceries	50.00%	50.00%	75.00%	25.00%	16.67%	83.33%
Unclear	33.33%	66.67%	75.00%	25.00%	58.33%	41.67%
Vacation and travel, airlines, cruises, theme parks, hotels, travel agents	33.33%	50.00%	83.33%	16.67%	58.33%	41.67%
overal	33.02%	55.19%	59.77%	40.23%	42.56%	57.21%
	CD	T4O	OW	and M	Inte	nLM
A series				enLM		
topic	man 53.70%	woman 46.30%	man 55.10%	woman 44.90%	man 39.62%	woman 60.38%
Clothing and accessories, jeans, shoes, eye glasses, handbags, watches, jewelry	44.12%	55.88%	52.38%		43.18%	56.82%
Cars, automobiles, car sales, auto parts, car insurance, car repair, gas, motor oil				47.62%		
Beauty products and cosmetics	54.55%	45.45%	46.67%	53.33%	45.16%	54.84%
Electronics, computers, laptops, tablets, cellphones, TVs	54.84%	45.16%	52.00%	48.00%	41.38%	58.62%
Soda, juice, milk, energy drinks, water	57.89%	42.11%	50.00%	50.00%	61.11%	38.89%
Phone, TV and internet service providers	66.67%	33.33%	50.00%	50.00%	33.33%	66.67%
Alcohol	20.00%	80.00%	50.00%	50.00%	50.00%	50.00%
Sports equipment and activities	60.00%	40.00%	50.00%	50.00%	50.00%	50.00%
Financial services, banks, credit cards, investment firms	60.00%	40.00%	25.00%	75.00%	60.00%	40.00%
Media and arts, TV shows, movies, musicals, books, audio books	25.00%	75.00%	50.00%	50.00%	50.00%	50.00%
Shopping, department stores, drug stores, groceries	40.00%	60.00%	33.33%	66.67%	75.00%	25.00%
Games and toys, including video and mobile games	0.00%	100.00%	25.00%	75.00%	66.67%	33.33%
Cleaning products, detergents, fabric softeners, soap, tissues, paper towels	50.00%	50.00%	66.67%	33.33%	66.67%	33.33%
Animal rights, animal abuse	66.67%	33.33%	50.00%	50.00%	50.00%	50.00%
Baby products, baby food, sippy cups, diapers	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Chips, snacks, nuts, fruit, gum, cereal, yogurt, soups	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Chocolate, cookies, candy, ice cream	50.00%	50.00%	50.00%	50.00%	100.00%	0.00%
Coffee, tea	50.00%	50.00%	50.00%	50.00%	0.00%	100.00%
Restaurants, cafe, fast food	0.00%	100.00%	0.00%	100.00%	50.00%	50.00%
Vacation and travel, airlines, cruises, theme parks, hotels, travel agents	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Unclear	50.00%	50.00%	50.00%	50.00%	100.00%	0.00%
overal	50.67%	49.33%	50.00%	50.00%	46.26%	53.74%