

Persuasion in Advertisements over Time

BOOK

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e.g., Bagwell (2007), Mehta et al. (2008), Zarantonello et al. (2013) Marketing Science June 9, 2023

Marketing researchers assume ads are used by firms to inform or persuade ...



Informative

- Functional aspects (product features, benefits and value)
- Advertising as response to imperfect information
- Results in **cognitive** response

- Experiential aspects and cues
- Advertising alters consumer tastes and creates perceived product differentiation
- Results in **affective** response



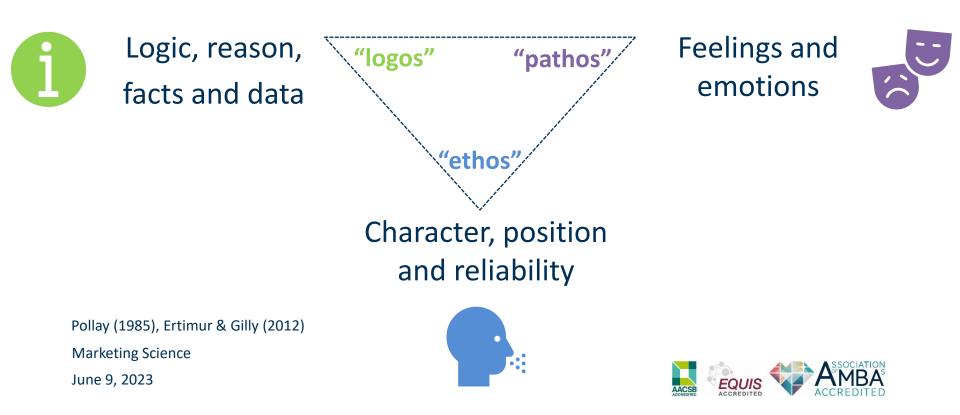




... but information and persuasion are not mutually exclusive



"Persuasion is human communication that is designed to influence others by modifying their beliefs, values or attitudes." (Simons, 1976, p.21)



Research Questions



How does the **nature of persuasion** in advertising change **over time** in terms of (text & visual) rhetoric?

Are there **structural shifts** in the application of different methods of persuasion?

To what extent is the **industry type** related to the use of rhetoric and the way companies persuade consumers with ads?



Data

- Print ads
 - -1900-2014
 - Over 400,000 ads of more than 25,000 brands
- **Subset** of four different industries:

	# ads	Time period	# brands
Fashion	1058	1903 – 2014	98
Tobacco	1579	1904 – 1998	37
Automotive	4205	1935 – 2014	103
Watches	1984	1951 – 2014	52



The <u>Econo</u>mist

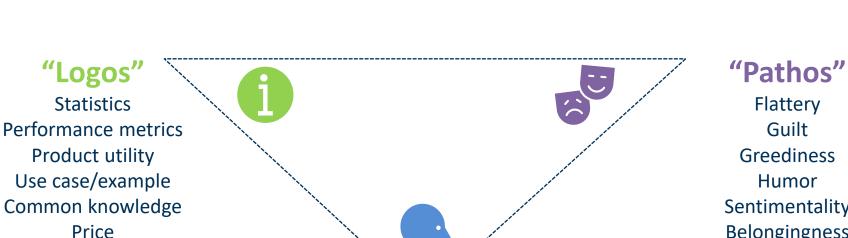


Data (Pre-)Processing



Wardley Object **Middle East Pre-processing:** mited Neural network to detect ads A Member of The Hongkong Bank Group **Merchant Banking Services** throughout the Middle East and separate them from the Tivier Beirut editorial content Baghdad • Ammar Handle exceptions inadha Text Abu Dhabi ere is a time for cocktails here is only one watch be elegant and distinguishe all circumstances, the new **Processing:** Raising of Capital Project Finance Riviera Corporate Advice Joint Ventures • Acquisitions **Computer vision** Modèle déposé 🕫 Wardley Middle East Limited B.B.M.F. Puttering NLP P.O. Box 4604 Brand Riga-Deira, Dubai **BAUME & MERCIER** United Arab Emirates GENEVE Telephone: Dubai 221126, 1830 Telex: 45806 Wardub EM. Cables: Wardley Dubai On sale at the leading watchmakers' and jew

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Data Labeling





Flattery Guilt Greediness Humor Sentimentality **Belongingness** Illustrations Action Personalization Other

"Ethos" Endorser Brand name/logo **Quality signal** Reference to competition

Ethical standpoint Brand heritage/experience Geographic origin Other

Combining and extending Pollay (1985), Chandy et al. (2001), Middleton et al. (2022) and Mangió et al. (2021)

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Data Labeling

Example

Belongingness

There is a time for sports. There is a time for cocktails. There is only one watch to be elegant and distinguished in all circumstances, the new

Product utility

waterproof, scratch-proof sapphire crystal, 18 kt gold, two-coloured or stainless steel, high precision automatic or quartz movement.

> Geographic origin —

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Use case/ > example

Sentimentality

iviera

Modèle déposé®

Brand name/ logo

Brand heritage/ experience





is a time for sports

proof sapphire crystal,

old, two-coloured

ecision automatic tz movement.

is a time for cocktails is only one watch

legant and distinguished rcumstances, the new

Riviera

BAUME & MERCIER

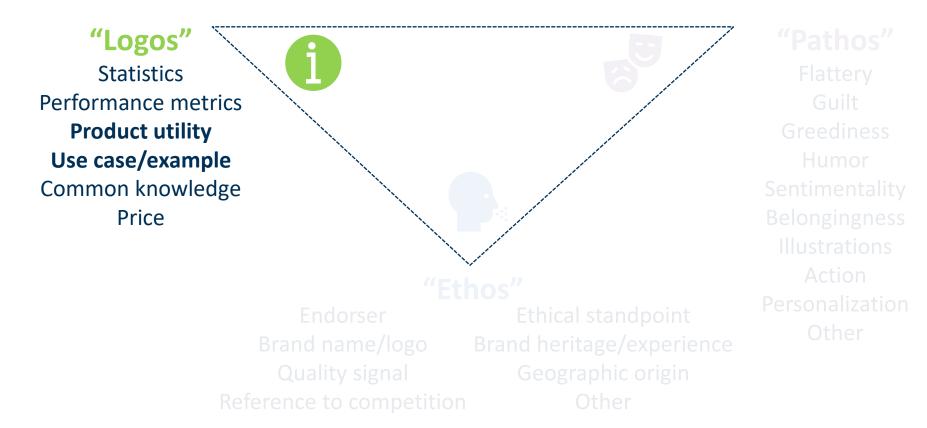
GENEVE 1830

On sale at the leading watchmakers' and jewellers'.

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Data Labeling

Analysis

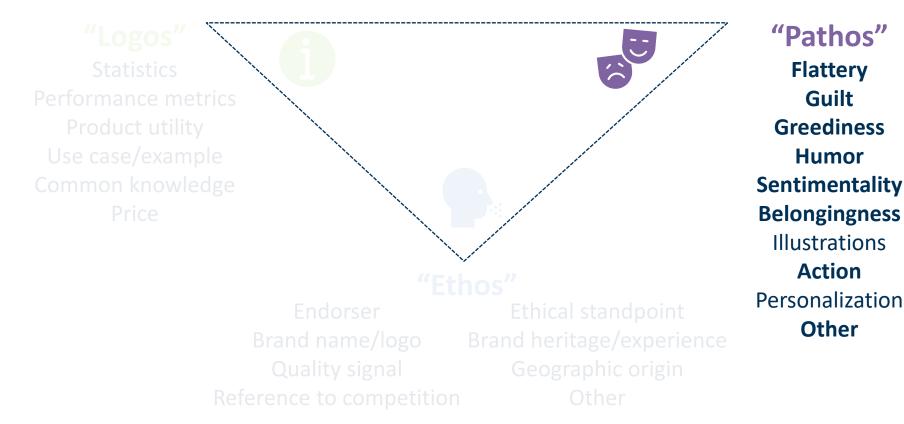






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Data Labeling Analysis

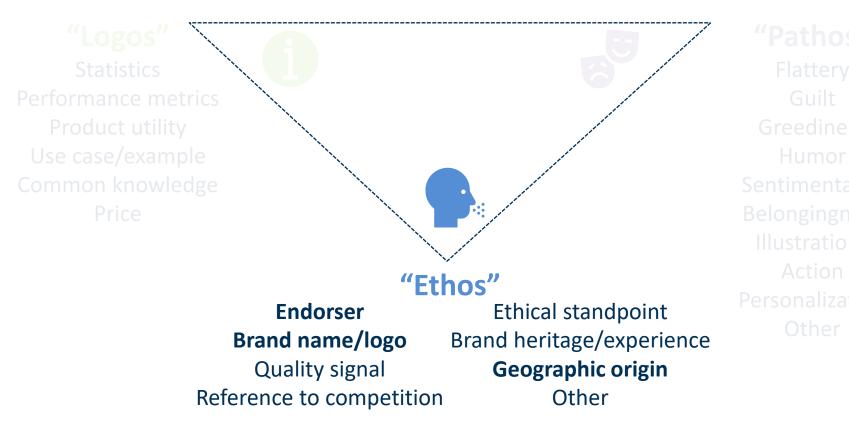






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Data Labeling Analysis



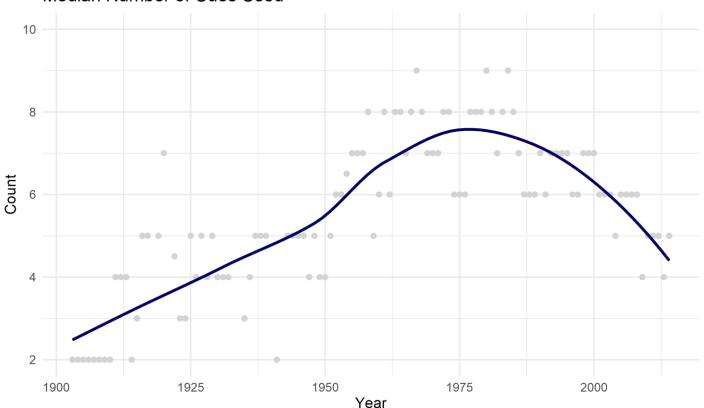








On average, ads initially use an increasing amount of rhetoric cues before this number sinks at the end of the 20th century



Median Number of Cues Used

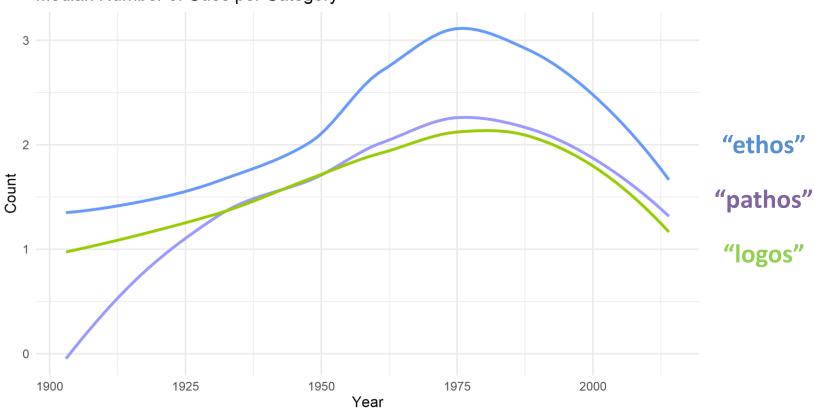
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The same inverted U-shape for the number of used cues is observed for all three means of persuasion



Median Number of Cues per Category

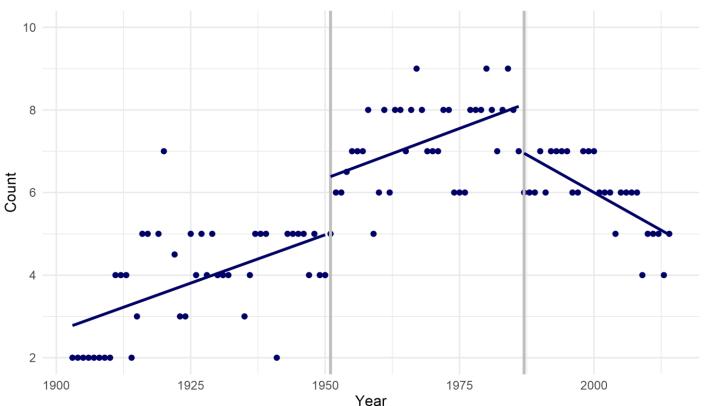
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The average number of rhetoric cues used indicates two changepoints in the development over time



Median Number of Cues Used

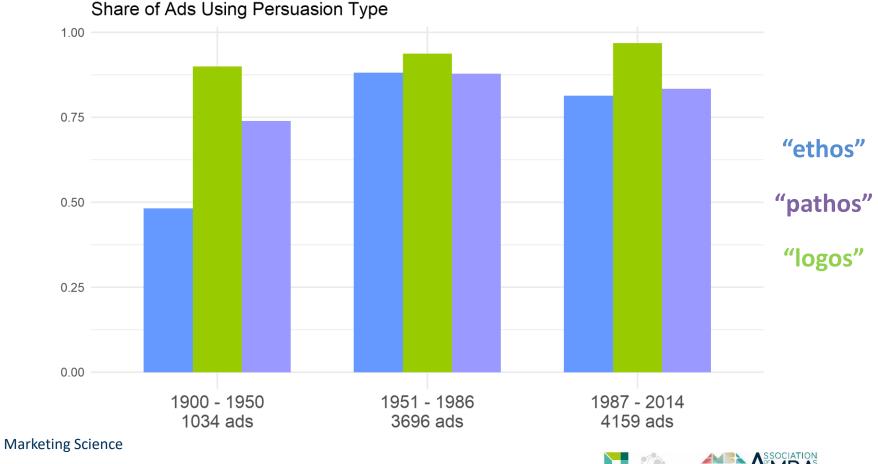
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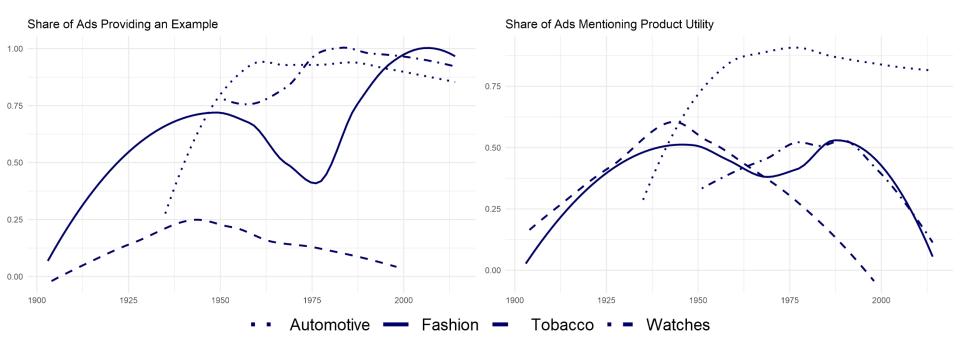


It seems firms increasingly use their own credibility for persuasion



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For most industries, the use of facts and information to persuade consumers is highly common



- For most industries, more than 93% of ads use at least one "logos" cue
- **Tobacco** firms abandoned this type of rhetoric cue over time





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Analysis

The use of emotions fluctuates across industries and over time

- Share of Ads Evoking Emotions Share of Ads Motivating Consumers to Take Action 0.6 0.75 0.4 0.50 0.2 0.25 ١ 0.0 0.00 1900 1925 1950 1975 2000 1900 1925 1950 1975 2000 Tobacco • Automotive — Fashion Watches
 - **Overall use** of "pathos" **varies** more between industries (68% 95%)
 - Automotive and fashion brands increasingly motivate consumers to take action



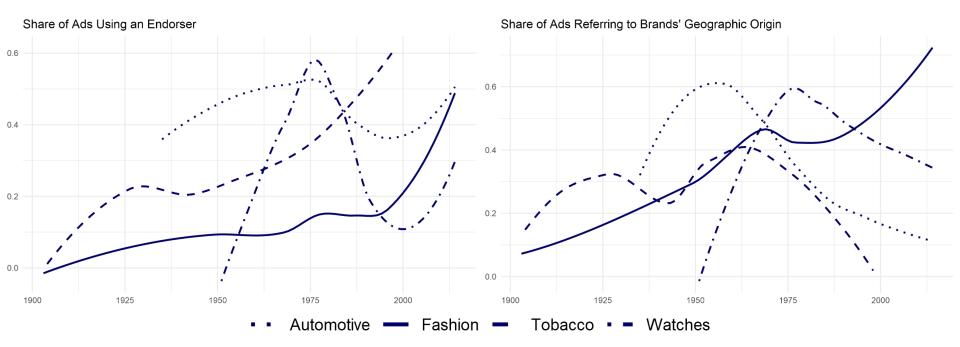






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The use of endorsers is generally increasing while most brands abandon geographic references



- **Overall use** of "ethos" varies even more between industries (56% 90%)
- Only **fashion** brands are consistent in increasingly referencing geographic origin





Analysis

Summary and Outlook



- The data suggests that firms indeed use multiple textual and visual cues to communicate persuasively with consumers.
 - Number of cues generally follows inverted U-shape
- Inclusion of information is most common across all ads, but references to brand reputation has strongest increase over time.

Future work:

- In-depth analysis of industry comparisons
- Validation of intercoder reliability





Thank you for your attention!

I'm happy to connect:



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