

Elements of the Information Nutrition Label

Understanding Trigger Warnings

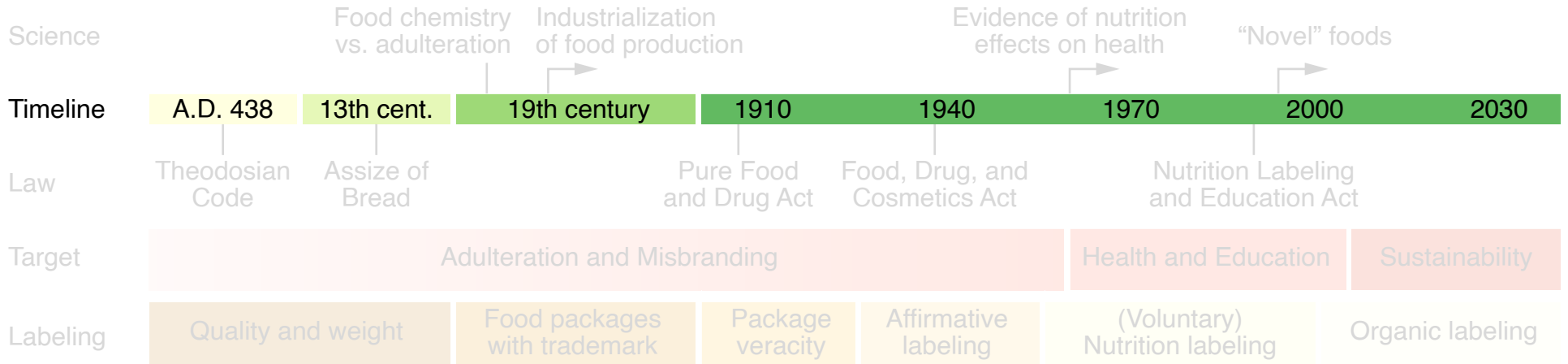
Martin Potthast

University of Kassel, hessian.AI, and ScaDS.AI

December 4th, 2024

The Information Nutrition Label

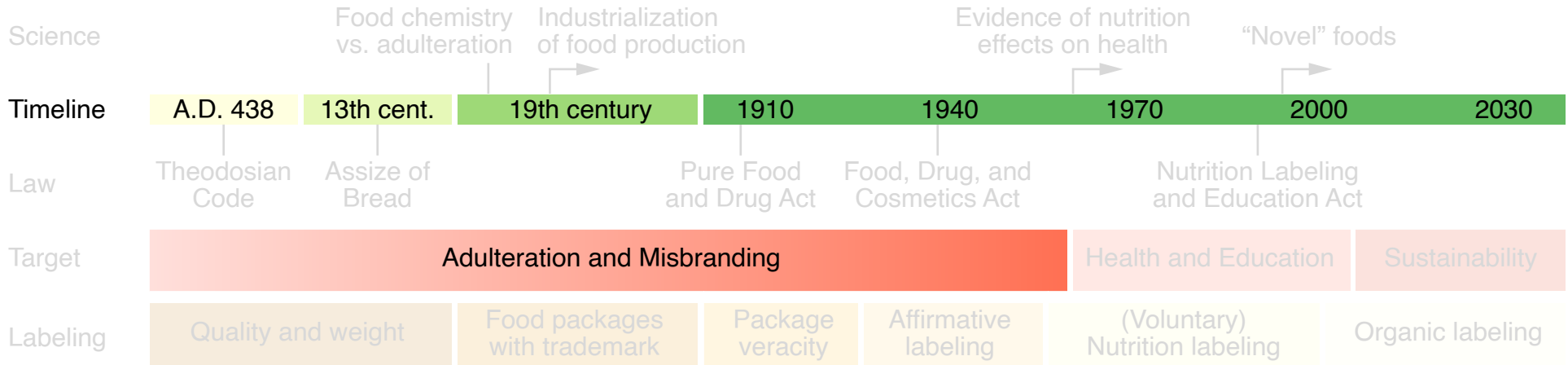
History of Food Labeling



- ❑ Producers and consumers have an information asymmetry concerning ingredients.
- ❑ Early regulation addressed mostly fraud (for fear of civil unrest about lacking food).
- ❑ Nutrition facts labels are dedicated to educating society.
- ❑ Modern European legislation lagged behind the US almost 70 years.

The Information Nutrition Label

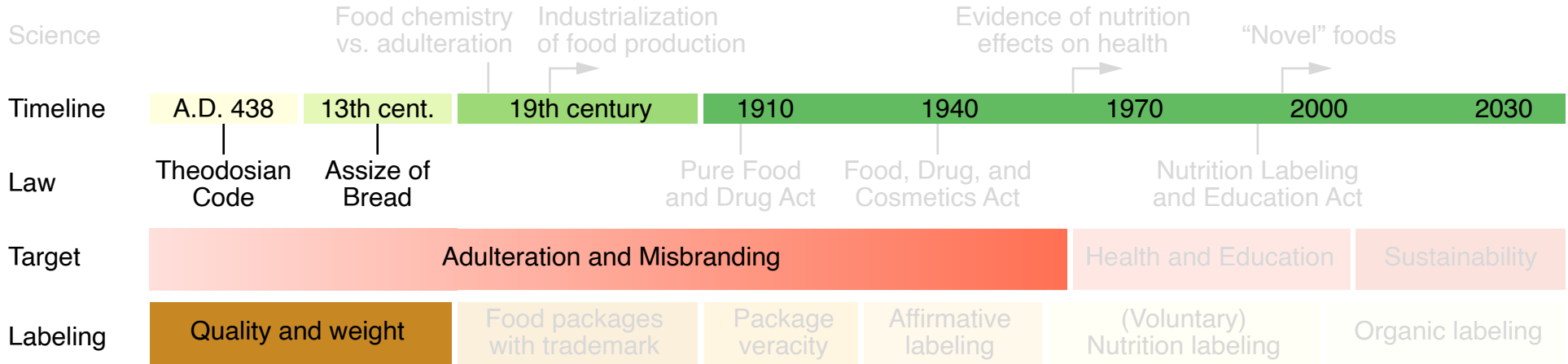
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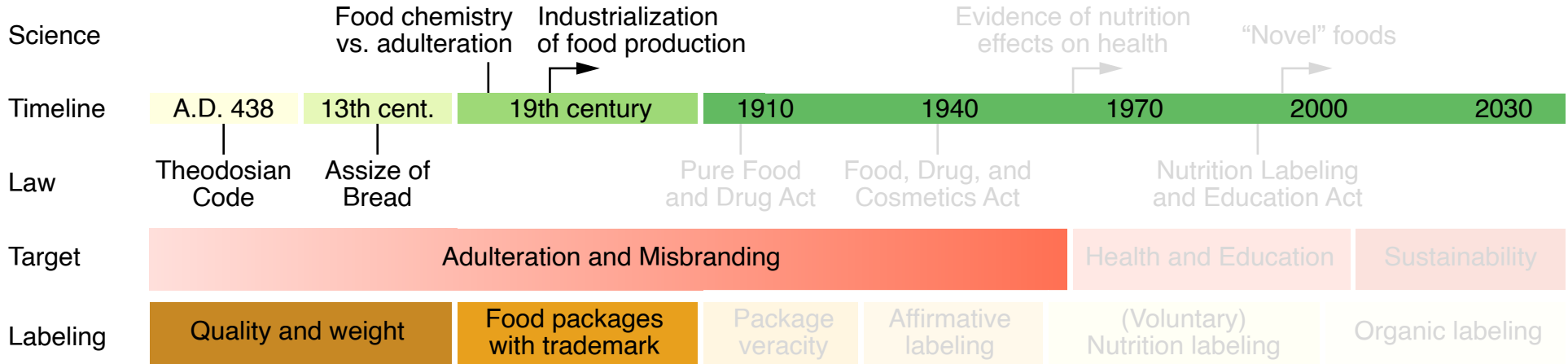
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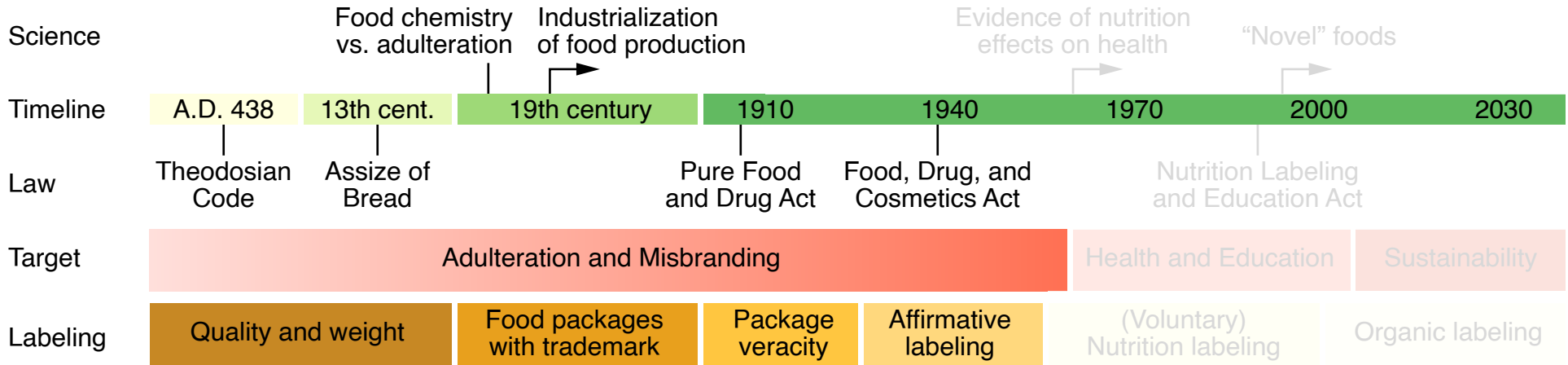
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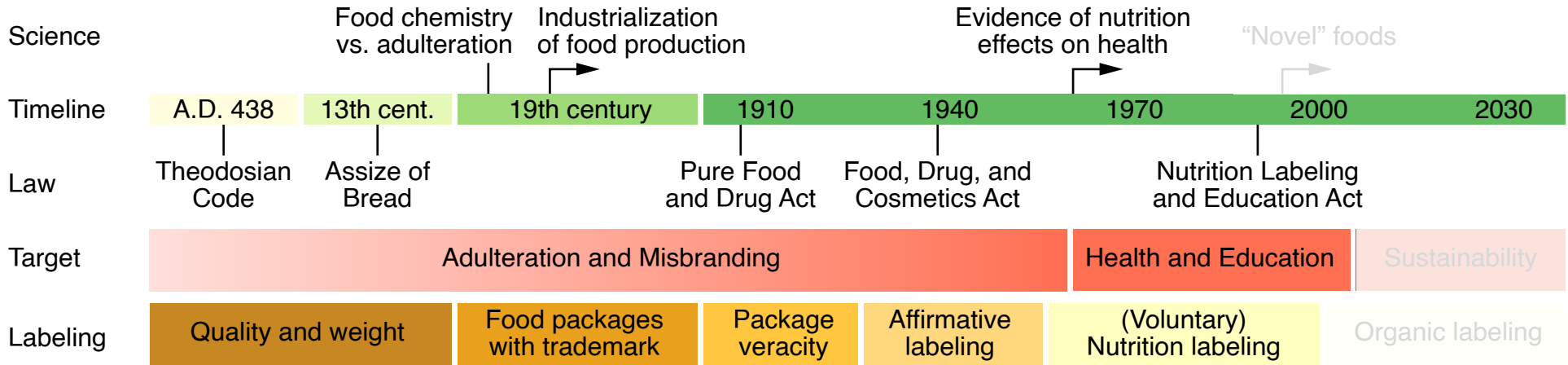
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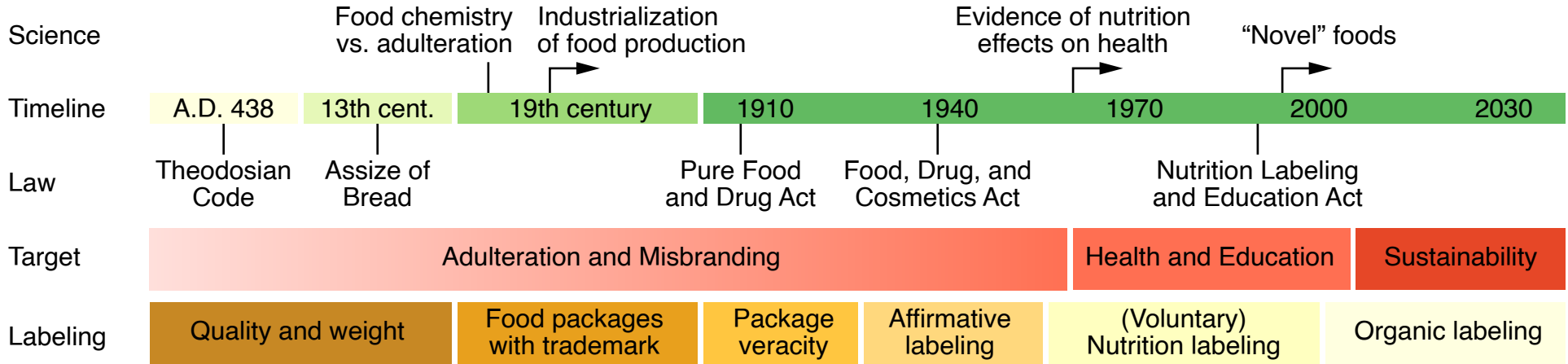
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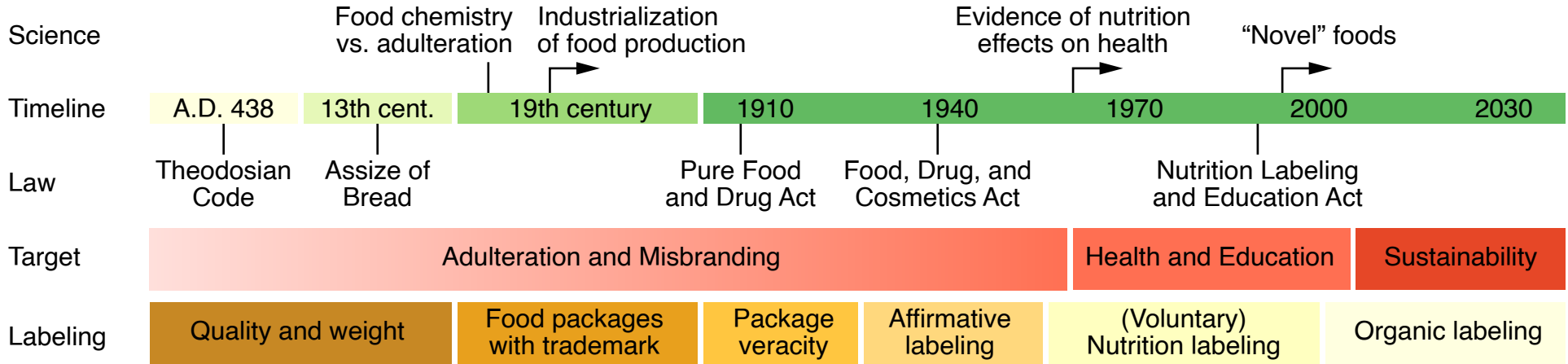
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Food Label Design: Format and Presentation

NUTRITION INFORMATION PER SERVING	NUTRITION INFORMATION PER SERVING	NUTRITION INFORMATION PER SERVING	NUTRITION INFORMATION PER SERVING	NUTRITION INFORMATION PER SERVING	NUTRITION INFORMATION PER SERVING	NUTRITION INFORMATION PER SERVING
<p>Serving Size ¼ box (45g) ¼ cup prepared Servings per Container: 4</p> <p>AS PREPARED</p> <p>Calories 270 Calories from fat 105</p> <p>AMOUNT</p> <p>Fat 13g Saturated Fat 6g Cholesterol 30mg Sodium 660mg Carbohydrates 31mg Fiber 0g Protein 5g</p> <p>PERCENT OF DAILY VALUE</p> <p>Vitamin A 4 Vitamin C ‡ Calcium 12 Iron 10</p> <p>† As part of a 2,350 calorie diet ‡ Contains less than 2 percent of the DV of this nutrient</p>	<p>Single Serving Size ¼ box (45g) ¼ cup prepared Servings per Container: 4</p> <p>AS PREPARED</p> <p>Calories 270 Calories from fat 105</p> <p>AMOUNT DAILY VALUE (DV) †</p> <p>Fat 13g 75 g or less Saturated Fat 6g 25 g or less Cholesterol 30mg 300 mg or less Sodium 660mg 2,400 mg or less Carbohydrates 31mg 325 g or less Fiber 0g 25 g Protein 5g</p> <p>PERCENT OF DAILY VALUE</p> <p>Vitamin A 4 Vitamin C ‡ Calcium 12 Iron 10</p> <p>† As part of a 2,350 calorie diet ‡ Contains less than 2 percent of the DV of this nutrient</p>	<p>Serving Size 1 oz slice (26g) Servings per Box: 14</p> <p>Calories 70 Calories from fat 0</p> <p>AMOUNT DAILY VALUE (DV) †</p> <p>Fat 4g 75 g or less Saturated Fat LOW 0g 25 g or less Cholesterol LOW 0mg 300 mg or less Sodium LOW 115mg 2,400 mg or less Carbohydrates MEDIUM 16mg 325 g or less Fiber LOW 0g 25 g</p> <p>PERCENT OF DAILY VALUE</p> <p>Protein LOW 2 Vitamin A LOW ‡ Vitamin C LOW ‡ Calcium LOW ‡ Iron LOW ‡</p> <p>† As part of a 2,350 calorie diet ‡ Contains less than 2 percent of the DV of this nutrient</p>	<p>Serving Size: 4 ounces condensed 1 cup (244g) as prepared Servings per Box: 2 ¼</p> <p>Calories 90 Calories from fat 30</p> <p>PERCENT OF DV DAILY VALUE (DV) †</p> <p>Fat (3g) 4 75 g or less Saturated Fat (0g) 0 25 g or less Cholesterol (5mg) 2 300 mg or less Sodium (91mg) 35 2,400 mg or less Carbohydrates (12g) 4 325 g or less Fiber (0g) 0 25 g Protein (5g) 11</p> <p>Vitamin A ‡ Vitamin C 2 Calcium 4 Iron 8</p> <p>† As part of a 2,350 calorie diet ‡ Contains less than 2 percent of the DV of this nutrient</p>	<p>Serving Size: ¼ box (45g) ¼ cup prepared Servings per Box: 4</p> <p>Calories 270 Calories from fat 105</p> <p>PERCENT OF DV</p> <p>Fat (13g) 17 Saturated Fat (5g) 20 Cholesterol (30mg) 10 Sodium (660mg) 28 Carbohydrates (31g) 10 Fiber (0g) 0 Protein (5g) 10</p> <p>Vitamin A 4 Vitamin C ‡ Calcium 12 Iron 10</p> <p>† As part of a 2,350 calorie diet ‡ Contains less than 2 percent of the DV of this nutrient</p>	<p>Single Serving Size 6 fl oz (156g) ¾ cup Servings per Container: 2 ½</p> <p>Calories 150 Calories from fat 45</p> <p>CHOOSE A DIET LOW IN: AMOUNT DAILY VALUE (DV) †</p> <p>Fat 17 75 g or less Saturated Fat 20 25 g or less Cholesterol 10 300 mg or less Sodium 25 2,400 mg or less</p> <p>CHOOSE A DIET HIGH IN:</p> <p>Carbohydrates 27g 325 mg or more Fiber 0g 25g</p> <p>PERCENT OF DAILY VALUE</p> <p>Protein 4 Vitamin A 4 Vitamin C 2 Calcium 20 Iron 2</p> <p>† As part of a 2,350 calorie diet</p>	<p>Single Serving Size 6 fl oz (156g) ¾ cup Servings per Container: 2 ½</p> <p>Calories 150 Calories from fat 45</p> <p>AMOUNT DAILY VALUE (DV) †</p> <p>Fat 6g 75 g or less Saturated Fat 0g* 25 g or less Cholesterol 0mg* 300 mg or less Sodium 20mg* 2,400 mg or less Carbohydrates 27mg 325 mg or more Fiber 0g 25g Protein 2g</p> <p>PERCENT DAILY VALUE</p> <p>Vitamin A 2 Vitamin C 2 Calcium 20** Iron 2</p> <p>† As part of a 2,350 calorie diet Meets FDA definitions and is consistent with dietary recommendations as: *Low or reduced in amount per serving **High in amount per serving</p>

Control

Control with DRV

Adjectives

% Daily Value
with DRV

% Daily Value
without DRV

Grouping

Highlighting

- ❑ List of nutrients
- ❑ Absolute vs relative amounts (daily recommended value, DRV)
- ❑ Erring on the side of caution: low daily calories, but high daily nutrients
- ❑ Serving sizes based average consumption and household measures per food item category

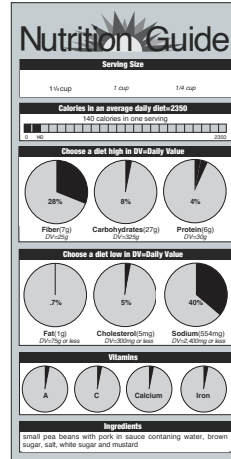
The Information Nutrition Label

Food Label Design: Format and Presentation

NUTRITION INFORMATION PER SERVING			
SINGLE SERVING SIZE 1/2 OUNCE			
SERVINGS PER PACKAGE			
CALORIES	32		
PROTEIN	30		
CARBOHYDRATES	1 GRAM		
FAT	9 GRAMS		
POLYUNSATURATED	+		
SATURATED	+		
CHOLESTEROL	0 MILLIGRAMS		
SODIUM	80 MILLIGRAMS		
*CONTAINS LESS THAN 1 GRAM			
PERCENTAGE OF U.S. RECOMMENDED DAILY ALLOWANCES (U.S. RDA)			
PROTEIN	2	RIBOFLAVIN	2
VITAMIN A	**	NIACIN	2
VITAMIN C	**	CALCIUM	2
THIAMINE	4	IRON	2
** CONTAINS LESS THAN 2% OF THE U.S. RDA OF THESE NUTRIENTS.			

Old Food Label

NUTRITION VALUES	
SINGLE SERVING SIZE 1/2 CUP	
Servings per Container 2	
CALORIES	140
Calories from fat 10	
PERCENT OF (DV) IN THIS PRODUCT	
DAILY VALUE † (DV) IN GRAMS	
Fat (1g)	1% 75g or less
Saturated Fat (1g)	4% 25g or less
Cholesterol (0mg)	0% 300mg or less
Sodium (554mg)	23% 2400mg or less
Carbohydrates (27g)	27% 325 g or more
Fiber (7g)	29% 25g
Protein (6g)	13% 50g
VITAMINS PERCENT OF (DV)	
Vitamin A	2% of 100%
Vitamin C	4% of 100%
Calcium	* of 100%
Iron	15% of 100%
† As part of a 2,350 calorie diet	
* Contains less than 2% of the DV of this nutrient	
INGREDIENTS	
Small pea beans with pork in sauce containing water, brown sugar, and mustard.	
Small pea beans with pork in sauce containing water, brown sugar, salt, white sugar and small pea beans with pork in sauce containing water, brown sugar, salt, white	



Nutrition Guide	
Single Serving Size	1/2 cup
Calories	140
Calories from fat	10
100%	
Daily Value	
Fat	75g or less
Saturated Fat	25g or less
Cholesterol	300 mg or less
Sodium	2,400 mg or less
Daily Value	
Fiber	25g
Carbohydrates	325g or more
Protein	46g
Vitamins	
A-2%	C-5%
Iron-2%	Calcium-6%
Ingredients	
Small pea beans with pork in sauce containing water, brown sugar, salt, white sugar and mustard. Small pea beans with pork in sauce containing water, brown sugar, salt, white sugar and mustard. Small pea beans with pork in sauce containing water, brown sugar, salt, white sugar and mustard. Small pea beans with pork in sauce containing water, brown sugar, salt, white sugar and mustard.	

Nutrition Facts		
Serving Size 1/2 cup (114g)		
Servings Per Container 4		
Amount Per Serving		
Calories	260	Calories from Fat 120
Amount per Serving		
	% Daily Value	Daily Value* for 2000 calorie diet
Total Fat	13g 20%	Less than 65g
Saturated Fat	5g 25%	Less than 20g
Cholesterol	30mg 10%	Less than 300mg
Sodium	660mg 28%	Less than 2,400mg
Total		
Carbohydrate	31g 11%	300g
Dietary Fiber	0g 0%	25g
Protein		
Protein	5g	
Vitamin A 4% • Vitamin C 2% • Calcium 15% • Iron 4%		
* This Daily Value is a reference. Your Daily Value may vary depending on your calorie needs. For 2,500 calorie diet:		
Total Fat	Less than 80g	80g
Sat Fat	Less than 25g	25g
Cholesterol	Less than 300mg	300mg
Sodium	Less than 2,400mg	2,400mg
Total Carbohydrate	300g	300g
Dietary Fiber	25g	30g
Calories per gram:		
Fat 9 • Carbohydrate 4 • Protein 4		

Nutrition Facts		
Serving Size 1/2 cup (114g)		
Servings Per Container 4		
Amount Per Serving		
Calories	260	Calories from Fat 120
Amount per Serving		
	% Daily Value*	
Total Fat	6g	20%
Saturated Fat	5g	25%
Cholesterol	30mg	10%
Sodium	660mg	28%
Total Carbohydrate	31g	11%
Dietary Fiber	0g	0%
Sugars	5g	
Protein		
Protein	5g	
Vitamin A	4%	Vitamin C 2%
Calcium	15%	Iron 4%
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:		
	Calories:	2,000 2,500
Total Fat	Less than	65g 80g
Sat Fat	Less than	25g 25g
Cholesterol	Less than	300mg 300mg
Sodium	Less than	2,400mg 2,400mg
Total Carbohydrate		300g 300g
Dietary Fiber		25g 30g
Calories per gram:		
Fat 9 • Carbohydrate 4 • Protein 4		

New Food Label

- ❑ Format optimization with focus group studies completing tasks.
- ❑ Expert designers for graphic design.
- ❑ Studies to optimize comprehension, legibility, and literacy.

The Information Nutrition Label

Related Initiatives

- ❑ **Broadband Facts Label**
- ❑ Knowledge Panel on Search Results
- ❑ Privacy Facts Label
- ❑ Model Cards for AI
- ❑ Data Cards for AI
- ❑ Information Nutrition Label
- ❑ Garment Facts Label
- ❑ Publication Facts Label

Broadband Facts	
Acme Wireless	
50 Gigabit Data Plan	
Mobile Broadband Consumer Disclosure	
Monthly Price	\$75.00
This monthly price is an introductory rate No	
Time the introductory rate applies	n/a
Monthly price after the introductory rate	n/a
Length of contract	n/a
Link to Terms of Contract https://www.example.com/terms-of-contract	
Additional Charges & Terms	
Provider Monthly Fees	
Device Installment Payment	\$66.67
Device Insurance Coverage	\$3.99
Voice mail	\$1.00
One-Time Purchase Fees	
Activation Fee	\$36.00
Early Termination Fee	n/a
Government Taxes	Included
Discounts & Bundles	
Visit the link below for available billing discounts and pricing options for broadband service bundled with other services like video, phone, and wireless service, and use of your own equipment like modems and routers.	
https://www.example.com/discounts	
Speeds Provided with Plan	
Typical Download Speed	35 Mbps
Typical Upload Speed	5 Mbps
Typical Latency	30 ms
Data Included with Monthly Price	
Charges for Additional Data Usage	\$5/GB
https://www.example.com/data-usage	
Network Management Policy	
https://www.example.com/network-management	
Privacy Policy	
https://www.example.com/privacy	
Customer Support	
Phone:	(555) 555-5555
Website:	https://www.example.com
Learn about the terms used on this label. Visit the Federal Communications Commission's Consumer Resource Center.	
fcc.gov/consumer	
Unique Plan Identifier: F0005937974123ABC456EMC789	

- United States Federal Communications Commission (FCC). 2013.

The Information Nutrition Label

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- ❑ Information Nutrition Label
- ❑ Garment Facts Label
- ❑ Publication Facts Label

About

Alan Mathison Turing was an English mathematician, computer scientist, logician, cryptanalyst, philosopher and theoretical biologist. [Wikipedia](#)



Born: June 23, 1912, [Maida Vale, London, United Kingdom](#)

Died: June 7, 1954 (age 41 years), [Wilmslow, United Kingdom](#)

Movies: [The Man Who Cracked the Nazi Code](#)

Education: [Princeton University](#) (1936–1938) · [See more](#)

Influenced by: [Alonzo Church](#), [Kurt Gödel](#), [Ludwig Wittgenstein](#)

Parents: [Julius Mathison Turing](#), [Ethel Sara Stoney](#)

[Feedback](#)

People also search for



Joan Clarke



Ada Lovelace



Tommy
Flowers



Herman
Hollerith

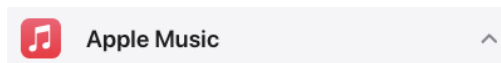
[See more](#) →

- A. Singhal. Introducing the Knowledge Graph: things, not strings. 2012.

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- ❑ **Privacy Facts Label**
- ❑ Model Cards for AI
- ❑ Data Cards for AI
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- ❑ Garment Facts Label
- ❑ Publication Facts Label













App Privacy


[See Details](#)

The developer, Apple, indicated that the app's privacy practices may include handling of data as described below. For more information, see the [developer's privacy policy](#).


 **Data Linked to You**

The following data may be collected and linked to your identity:

 Purchases	 Search History
 Financial Info	 Identifiers
 Location	 Usage Data
 Contact Info	 Diagnostics
 User Content	 Other Data

 **Data Not Linked to You**

The following data may be collected but it is not linked to your identity:

 Diagnostics

Privacy practices may vary, for example, based on the features you use or your age. [Learn More](#)

- Apple. What's new in privacy on the App Store. 2023.

The Information Nutrition Label

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- ❑ Knowledge Panel on Search Results
- ❑ Privacy Facts Label
- ❑ **Model Cards for AI**
- ❑ Data Cards for AI
- ❑ Information Nutrition Label
- ❑ Garment Facts Label
- ❑ Publication Facts Label

• M. Mitchell et al. Model Cards for Model Reporting. 2018.

• M. Pushkarna et al. Data Cards: Purposeful and Transparent Dataset Documentation for Responsible AI. 2022.

Model Card

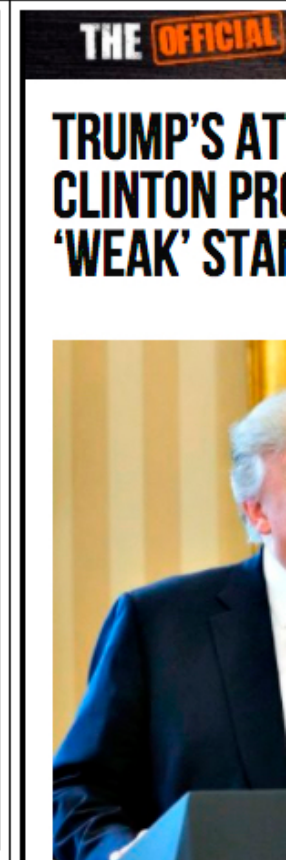
- **Model Details.** Basic information about the model.
 - Person or organization developing model
 - Model date
 - Model version
 - Model type
 - Information about training algorithms, parameters, fairness constraints or other applied approaches, and features
 - Paper or other resource for more information
 - Citation details
 - License
 - Where to send questions or comments about the model
- **Intended Use.** Use cases that were envisioned during development.
 - Primary intended uses
 - Primary intended users
 - Out-of-scope use cases
- **Factors.** Factors could include demographic or phenotypic groups, environmental conditions, technical attributes, or others listed in Section 4.3.
 - Relevant factors
 - Evaluation factors
- **Metrics.** Metrics should be chosen to reflect potential real-world impacts of the model.
 - Model performance measures
 - Decision thresholds
 - Variation approaches
- **Evaluation Data.** Details on the dataset(s) used for the quantitative analyses in the card.
 - Datasets
 - Motivation
 - Preprocessing
- **Training Data.** May not be possible to provide in practice. When possible, this section should mirror Evaluation Data. If such detail is not possible, minimal allowable information should be provided here, such as details of the distribution over various factors in the training datasets.
- **Quantitative Analyses**
 - Unitary results
 - Intersectional results
- **Ethical Considerations**
- **Caveats and Recommendations**

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- ❑ Garment Facts Label
- ❑ Publication Facts Label

INFORMATION NUTRITION LABEL		
Best Before: Jan 1, 2018		
Per 1000 words		Recommended Daily Allowance
<u>Fact</u>	30%	60 %
<u>Opinion</u>	40%	20 %
<u>Controversy</u>	9.0	--
<u>Emotion</u>	6.7	1.3
<u>Topicality</u>	8.7	5.0
<u>Reading Level</u>	4.0	8.0
<u>Technicality</u>	2.0	--
<u>Authority</u>	4.3	9.0
<u>Viralness</u>	--	1.0
Additional substances: advertising, subscription, invective, images (2), tweets, video clips		
Traces: product placement		



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- ❑ **Garment Facts Label**
- ❑ Publication Facts Label




Garments Facts

Total number	
Synthetic chemicals	112
Weight of chemicals per 100g	25g
Synthetic dye	Red F5-B
Date of Manufacture	21/04/2022
Factory (cutting/sewing)	
Energy Source	100% Coal
Can be worn (minimum)	
Quality	40 times
Total distance (km)	
Supply Chain	25,432
Number of Countries visited	3
Total number	
Materials Used	2
Fabric	cotton
Trim	cotton
Thread	(plastic) polyester
Zip/Buttons	n/a
Total shed per 6kg wash	
Microfibres	137,951
Cambodia average pcm (\$)	
Textile Workers Pay	250
Percentage of living wage	45%

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- ❑ **Publication Facts Label**

Publication Facts	
This article	Other articles
Peer reviewers 2	2.4
Reviewer  profiles	
Author Statements	
Data availability Yes	18%
External Funding Yes	32%
Competing Interests No	3%
This journal	
Articles accepted 23%	38%
Days to publication 134	145
Indexed in DO GS S WS	
Editor & editorial board  profiles	
Academic Society FRHS	
Publisher Waismann Journals	
To learn about these publications facts, click 	
PF is maintained by the Public Knowledge Project	

• Willinsky and Pimentel. The publication facts label: A public and professional guide for research articles. 2024.

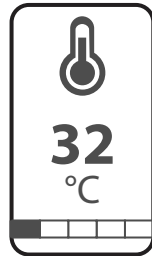
The Information Nutrition Label

Research at Webis

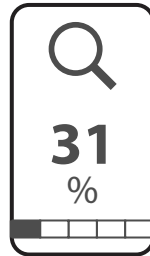
- ❑ Designing the information nutrition label requires interdisciplinary expertise.
- ❑ What are relevant “nutrients” of information?
- ❑ What are daily recommended values per measure?
- ❑ What are “household” measures of these nutrients?
- ❑ How can an information nutrition label be validated?



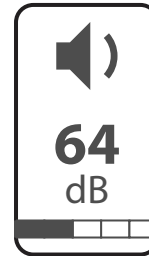
verbosity



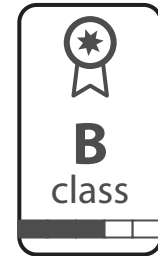
virality



verifiability



emotionality



reliability

The Information Nutrition Label

Research at Webis



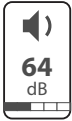
verbosity



virality



verifiability



emotionality



reliability

Clickbait Analytics



Clickbait Detection



Crowdsourcing Twitter Clickbait



Studying YouTube Clickbait



Clickbait Detection Challenge



Longitudinal User Engagement



Clickbait Spoiling



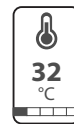
Clickbait Spoiling Challenge

The Information Nutrition Label

Research at Webis



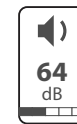
verbosity



virality



verifiability



emotionality



reliability

Clickbait Analytics



Clickbait
Detection



Crowdsourcing
Twitter Clickbait



Studying YouTube
Clickbait



Clickbait Detection
Challenge



Longitudinal User
Engagement



Clickbait
Spoiling



Clickbait Spoiling
Challenge

Verifiable Language Generation



Dilemma of the
Direct Answer



Retrieval-augmented
Generation



The Infinite
Index



Search
Biases



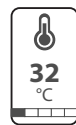
Native
Advertising

The Information Nutrition Label

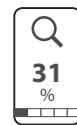
Research at Webis



verbosity



virality



verifiability



emotionality



reliability

Clickbait Analytics



Clickbait Detection



Crowdsourcing Twitter Clickbait



Studying YouTube Clickbait



Clickbait Detection Challenge



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Dilemma of the Direct Answer



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Understanding Trigger Warnings



Trigger Warning Consistency



Trigger Detection



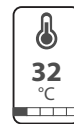
Trigger Detection Challenge

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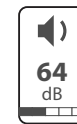
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Human Value Identification



ValueEval Challenge



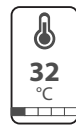
Value Classification Demo

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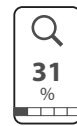
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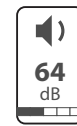
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Detection



Hyperpartisanship
Detection Challenge



Political Bias
Analysis



Bias
Flipping



Reframing



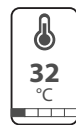
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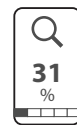
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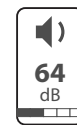
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Authorship
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Authorship
Obfuscation



Voight-Kampff Generated
Text Detection



PAN Network on
Digital Text Forensics

Who should make the moral judgment?



More power to the machine?

- effectively installed
- standardized guardrailing
- protection of vulnerable groups
- ...

Empower the user?

- raise awareness
- support deliberation
- demonstrate mechanisms
- provide meta information
- ...

Who should make the moral judgment?



*Power is nothing if it is not the power to choose.
Instrumental reason can make decisions, but
there is all the difference between deciding and choosing.*

Joseph Weizenbaum