

# Enhancing Airbnb Ratings Through Topic Model Scores



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August 19, 2021

# Platform Status in 2021



- 2.9 million hosts with 7 million listings worldwide
- 14,000 new hosts joining each month
  - For hosts: set your place space from the rest
  - For guests: optimize selection and maximize enjoyment
  - For Airbnb: generate new rating metrics

[9]:	en	571363
	de	6434
	fr	5440
	ja	5183
	ko	3741
	zh-cn	1822
	ro	1603
	es	1328
	af	818
	unknown	650
	it	639
	so	435
	nl	378
	pt	352
	ca	348
	tl	307
	cs	204
	no	194
	pl	193
	sv	179
	sw	168
	da	129
	ru	122
	hr	98
	hu	94
	fi	87
	vi	74
	id	70
	et	68
	cy	56
	sl	45
	zh-tw	39

# Data



# *Word Cloud*



# Data



# *Topic Modeling*





## Demo

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Demo

A screenshot of an Airbnb listing's review section. At the top left is a large red star icon followed by the text "★ 5.0 · 22 reviews". To the right is a search bar with a magnifying glass icon and the placeholder "Search reviews". Below the main rating, there is a table of review categories and their scores, each accompanied by a horizontal bar chart. The categories and scores are: Cleanliness (5.0), Accuracy (5.0), Communication (5.0), Location (5.0), Check-in (4.9), and Value (4.9). To the right of the table, there is a blurred profile picture of a user and a partial review text.

Cleanliness	5.0
Accuracy	5.0
Communication	5.0
Location	5.0
Check-in	4.9
Value	4.9

Probably the best exp  
were looking for differ  
Pictures just don't do  
everything else. It was  
Amazing hospitality fr  
He showed us the land





