Olist Datasets Overview

About Dataset

Brazilian E-Commerce Public Dataset by Olist

Welcome! This is a Brazilian ecommerce public dataset of orders made at <u>Olist Store</u>. The dataset has information of 100k orders from 2016 to 2018 made at multiple marketplaces in Brazil. Its features allows viewing an order from multiple dimensions: from order status, price, payment and freight performance to customer location, product attributes and finally reviews written by customers. We also released a geolocation dataset that relates Brazilian zip codes to lat/lng coordinates.

This is real commercial data, it has been anonymised, and references to the companies and partners in the review text have been replaced with the names of Game of Thrones great houses.

Join it With the Marketing Funnel by Olist

We have also released a <u>Marketing Funnel Dataset</u>. You may join both datasets and see an order from Marketing perspective now!

Instructions on joining are available on this **Kernel**.

Context

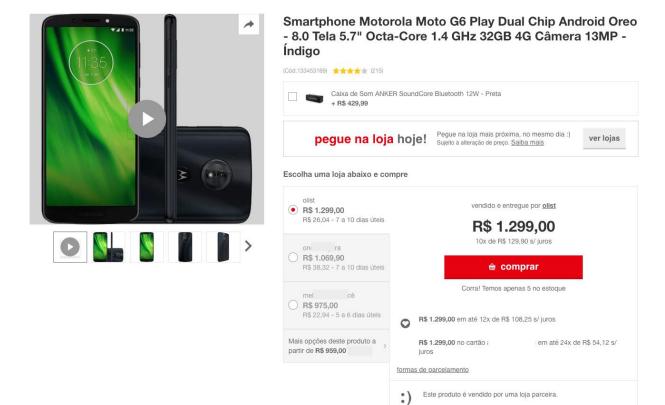
This dataset was generously provided by Olist, the largest department store in Brazilian marketplaces. Olist connects small businesses from all over Brazil to channels without hassle and with a single contract. Those merchants are able to sell their products through the Olist Store and ship them directly to the customers using Olist logistics partners. See more on our website: www.olist.com

After a customer purchases the product from Olist Store a seller gets notified to fulfill that order. Once the customer receives the product, or the estimated delivery date is due, the customer gets a satisfaction survey by email where he can give a note for the purchase experience and write down some comments.

Attention

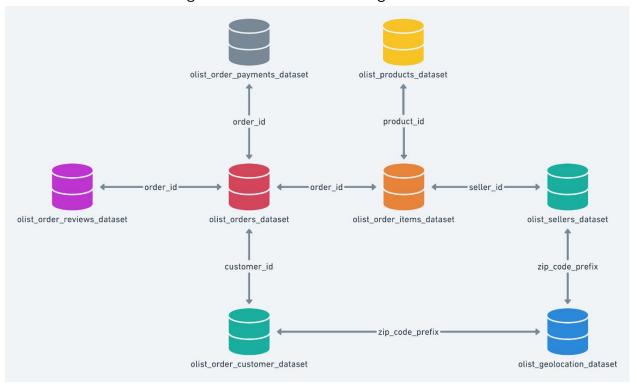
- 1. An order might have multiple items.
- 2. Each item might be fulfilled by a distinct seller.
- All text identifying stores and partners where replaced by the names of Game of Thrones great houses.

Example of a product listing on a marketplace



Data Schema

The data is divided in multiple datasets for better understanding and organization. Please refer to the following data schema when working with it:



Classified Dataset

We had previously released a classified dataset, but we removed it at *Version 6*. We intend to release it again as a new dataset with a new data schema. While we don't finish it, you may use the classified dataset available at the *Version 5* or previous.

Inspiration

Here are some inspiration for possible outcomes from this dataset.

NLP:

This dataset offers a supreme environment to parse out the reviews text through its multiple dimensions.

Clustering:

Some customers didn't write a review. But why are they happy or mad?

Sales Prediction:

With purchase date information you'll be able to predict future sales.

Delivery Performance:

You will also be able to work through delivery performance and find ways to optimize delivery times.

Product Quality:

Enjoy yourself discovering the products categories that are more prone to customer insatisfaction.

Feature Engineering:

Create features from this rich dataset or attach some external public information to it.

Acknowledgements

Thanks to Olist for releasing this dataset

Olist Datasets Dictionary

Olist Customers Dataset

About this file

Suggest Edits

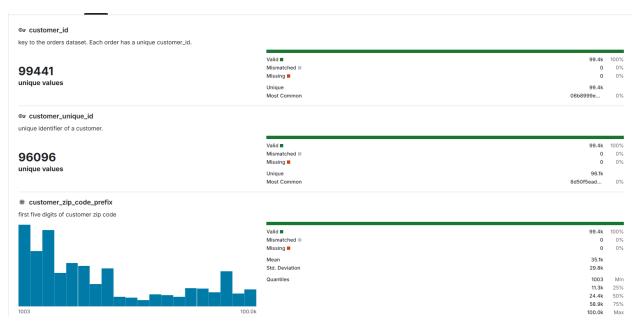
Customers Dataset

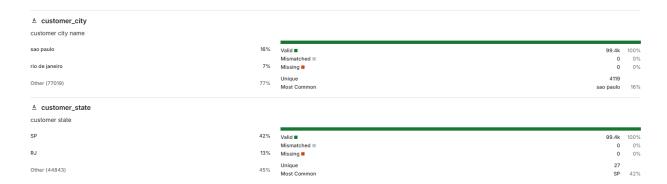
This dataset has information about the customer and its location. Use it to identify unique customers in the orders dataset and to find the orders delivery location.

At our system each order is assigned to a unique customer_id. This means that the same customer will get different ids for different orders. The purpose of having a customer_unique_id on the dataset is to allow you to identify customers that made repurchases at the store. Otherwise you would find that each order had a different customer associated with.

Please refer to the data schema:

_				
ew customer_id = key to the orders dataset. Each order has a unique customer_id.	customer_unique = unique identifier of a customer.	# customer_zip_co = first five digits of customer zip code	∆ customer_city = customer city name	∆ customer_state = customer state
99441 unique values	96096 unique values	1003 100.0k	sao paulo 16% rio de janeiro 7% Other (77019) 77%	SP 42% RJ 13% Other (44843) 45%
06b8999e2fba1a1fbc88 172c00ba8bc7	861eff4711a542e4b938 43c6dd7febb0	14409	franca	SP
18955e83d337fd6b2def 6b18a428ac77	290c77bc529b7ac935b9 3aa66c333dc3	09790	sao bernardo do campo	SP
4e7b3e00288586ebd087 12fdd0374a03	060e732b5b29e8181a18 229c7b0b2b5e	01151	sao paulo	SP
b2b6027bc5c5109e529d 4dc6358b12c3	259dac757896d24d7702 b9acbbff3f3c	08775	mogi das cruzes	SP
4f2d8ab171c80ec8364f 7c12e35b23ad	345ecd01c38d18a9036e d96c73b8d066	13056	campinas	SP
879864dab9bc3047522c 92c82e1212b8	4c93744516667ad3b8f1 fb645a3116a4	89254	jaragua do sul	SC





Olist Geolocation Dataset

About this file

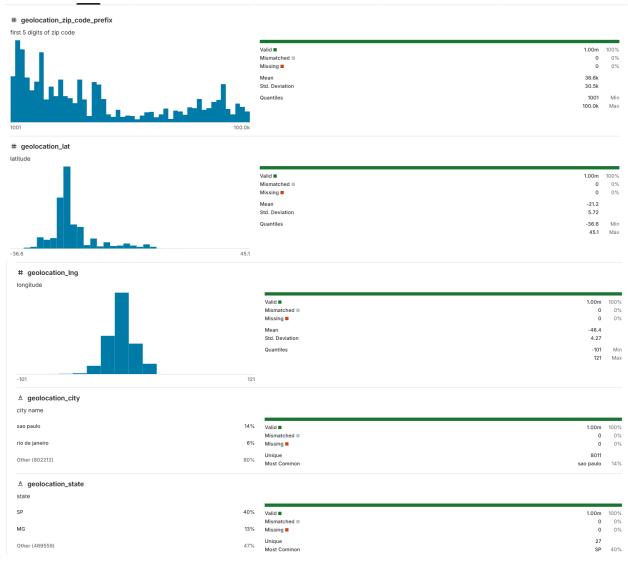
Suggest Edits

Geolocation Dataset

This dataset has information Brazilian zip codes and its lat/lng coordinates. Use it to plot maps and find distances between sellers and customers.

Please refer to the data schema:

# geolocation_zip =	# geolocation_lat =	# geolocation_lng =	≜ geolocation_city = city name	△ geolocation_state =
1001 100.0k	-36.6 45.1	-101 121	sao paulo 14% rio de janeiro 6% Other (802212) 80%	SP 40% MG 13% Other (469559) 47%
01037	-23.54562128115268	-46.63929204800168	sao paulo	SP
01046	-23.546081127035535	-46.64482029837157	sao paulo	SP
01046	-23.54612896641469	-46.64295148361138	sao paulo	SP



Olist Orders Dataset

About this file

Suggest Edits

Order Dataset

This is the core dataset. From each order you might find all other information.

Please refer to the data schema:

order_id = unique identifier of the order.	ew customer_id	△ order_status Reference to the o status (delivered, shipped, etc).	= order	☐ order_purchase_t = Shows the purchase timestamp.	☐ order_approved_at = Shows the payment approval timestamp.	Shows the order posting timestamp. When it was handled to the logistic partner.	order_delivered = Shows the actual order delivery date to the customer.	order_estimate Shows the estima delivery date that informed to custo the purchase mor	ted was mer a
99441 unique values	99441 unique values	delivered shipped Other (1856)	97% 1% 2%	2016-09-05 2018-10-18	2016-09-15 2018-09-04	2016-10-08 2018-09-12	2016-10-11 2018-10-17	2016-09-30 20	18-11-
e481f51cbdc54678b7cc 49136f2d6af7	9ef432eb6251297304e7 6186b10a928d	delivered		2017-10-02 10:56:33	2017-10-02 11:07:15	2017-10-04 19:55:00	2017-10-10 21:25:13	2017-10-18 00:	
53cdb2fc8bc7dce0b674 1e2150273451	b0830fb4747a6c6d20de a0b8c802d7ef	delivered		2018-07-24 20:41:37	2018-07-26 03:24:27	2018-07-26 14:31:00	2018-08-07 15:27:45	2018-08-13 00:	00:00
47770eb9100c2d0c4494 6d9cf07ec65d	41ce2a54c0b03bf3443c 3d931a367089	delivered		2018-08-08 08:38:49	2018-08-08 08:55:23	2018-08-08 13:50:00	2018-08-17 18:06:29	2018-09-04 00:	00:00
so order_id unique identifier of the or 99441 unique values	der.			Valid ■ Mismatched ■ Missing ■ Unique Most Common				99.4k 0 0 99.4k e481f51cbd	100
customer_id key to the customer data	set. Each order has a unique	customer_id.							
99441 unique values				Valid ■ Mismatched ■ Missing ■ Unique Most Common				99.4k 0 0 99.4k 9ef432eb6	100 0 0
A order_status Reference to the order st	atus (delivered, shipped, etc)								
delivered			ę	97% Valid ■ Mismatched ■				99.4k 0	100
shipped				1% Missing ■ Unique				0	09
Other (1856)				2% Most Common				delivered	979
order_purchase_ti									
				Valid ■ Mismatched ■ Missing ■ Minimum Mean Maximum				99.4k 0 0 5Sep16 31Dec17 18Oct18	0
2016-09-05			2018-10	0-18					
2016-09-05 order_approved_a Shows the payment appr			2018-10	0-18					



Olist Order Items Dataset

About this file

Suggest Edits

Order Items Dataset

This dataset includes data about the items purchased within each order.

Example:

The order_id = 00143d0f86d6fbd9f9b38ab440ac16f5 has 3 items (same product). Each item has the freight calculated accordingly to its measures and weight. To get the total freight value for each order you just have to sum.

The total order_item value is: 21.33 * 3 = 63.99

The total freight value is: 15.10 * 3 = 45.30

The total order value (product + freight) is: 45.30 + 63.99 = 109.29

∞ order_id =	∞ order_item_id =	∞ product id =	∞ seller_id =	E chipping limit data	# price
order_ld =-	sequential number identifying number of items included in the same order.	∞ product_id = product unique identifier	seller unique identifier	Shows the seller shipping limit date for handling the order over to the logistic partner.	# price
98666 unique values	1 21	32951 unique values	6560211a19b4799 2% 4a3ca9315b744ce 2% Other (108630) 96%	2016-09-19 2020-04-10	0.85
00010242fe8c5a6d1ba2 dd792cb16214	1	4244733e06e7ecb4970a 6e2683c13e61	48436dade18ac8b2bce0 89ec2a041202	2017-09-19 09:45:35	58.90
00018f77f2f0320c5571 90d7a144bdd3	1	e5f2d52b802189ee6588 65ca93d83a8f	dd7ddc04e1b6c2c61435 2b383efe2d36	2017-05-03 11:05:13	239.90

# price =	# freight_value = item freight value item (if an order has more than one item the freight value is splitted between items)
0.85 6.74k	0 410
58.90	13.29
239.90	19.93
199.00	17.87

Olist Order Payments Dataset

About this file

Suggest Edits

Payments Dataset

This dataset includes data about the orders payment options.

order_id = unique identifier of an order.	# payment_sequen = a customer may pay an order with more than one payment method. If he does so, a sequence will be created to	A payment_type = method of payment chosen by the customer.	# payment_installm = number of installments chosen by the customer.	# payment_value = transaction value.
99440 unique values	1 29	credit_card 74% boleto 19% Other (7307) 7%	0 24	0 13.7k
b81ef226f3fe1789b1e8 b2acac839d17	1	credit_card	8	99.33
a9810da82917af2d9aef d1278f1dcfa0	1	credit_card	1	24.39
25e8ea4e93396b6fa0d3 dd708e76c1bd	1	credit_card	1	65.71

Olist Order Reviews Dataset

About this file

Suggest Edits

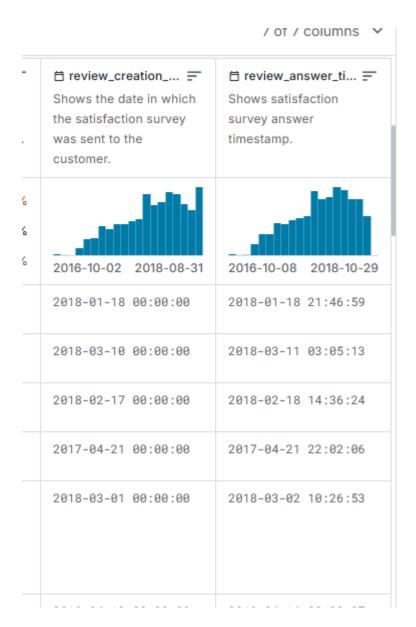
Order Reviews Dataset

This dataset includes data about the reviews made by the customers.

After a customer purchases the product from Olist Store a seller gets notified to fulfill that order. Once the customer receives the product, or the estimated delivery date is due, the customer gets a satisfaction survey by email where he can give a note for the purchase experience and write down some comments.

Detail Compact Column 7 of 7 colu

∞ review_id = unique review identifier	order_id = unique order identifier	# review_score Note ranging from 1 to 5 given by the customer on a satisfaction survey.	A review_comment = Comment title from the review left by the customer, in Portuguese.	A review_comment = Comment message from the review left by the customer, in Portuguese.	
98410 unique values	98673 unique values	1 5	[null] 88% Recomendo 0% Other (11145) 11%	[null] 59% Muito bom 0% Other (40747) 41%	
7bc2406110b926393aa5 5f80a40eba40	73fc7af87114b39712e6 da79b0a377eb	4			
80e641a11e56f04c1ad4 69d5645fdfde	a548910a1c6147796b98 fdf73dbeba33	5			
228ce5500dc1d8e020d8 d1322874b6f0	f9e4b658b201a9f2ecde cbb34bed034b	5			
e64fb393e7b32834bb78 9ff8bb30750e	658677c97b385a9be170 737859d3511b	5		Recebi bem antes do prazo estipulado.	
f7c4243c7fe1938f181b ec41a392bdeb	8e6bfb81e283fa7e4f11 123a3fb894f1	5		Parabéns lojas lannister adorei comprar pela Internet seguro e prático Parabéns a todos feliz Páscoa	



Olist Products Dataset

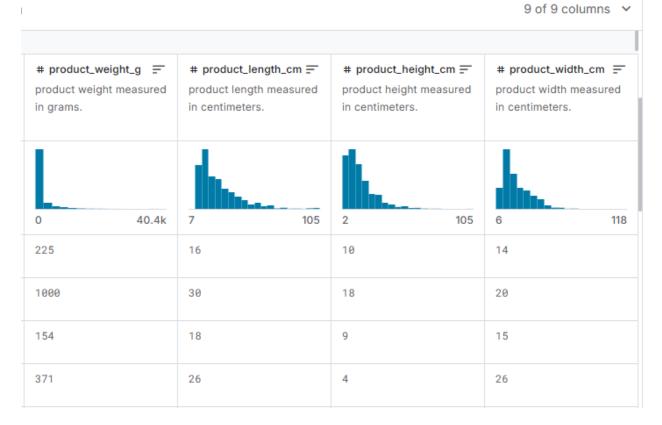
About this file

Suggest Edits

Products Dataset

This dataset includes data about the products sold by Olist.

Detail Compact	Column			9 of 9 cc
•• product_id = unique product identifier	△ product_category = root category of product, in Portuguese.	# product_name_le = number of characters extracted from the product name.	# product_descripti = number of characters extracted from the product description.	# product_photos = number of product published photos
32951 unique values	cama_mesa_banho 9% esporte_lazer 9% Other (27055) 82%	5 76	4 3992	1 20
1e9e8ef04dbcff4541ed 26657ea517e5	perfumaria	40	287	1
3aa071139cb16b67ca9e 5dea641aaa2f	artes	44	276	1
96bd76ec8810374ed1b6 5e291975717f	esporte_lazer	46	250	1



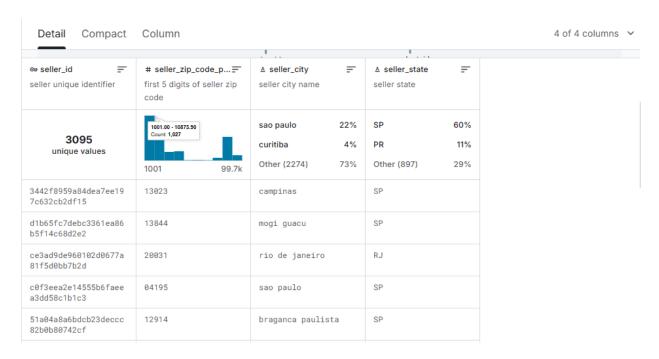
Olist Sellers Dataset

About this file

Suggest Edits

Sellers Dataset

This dataset includes data about the sellers that fulfilled orders made at Olist. Use it to find the seller location and to identify which seller fulfilled each product.



Product Category Name Translation Dataset

About this file

Suggest Edits

Category Name Translation

Translates the product_category_name to english.

