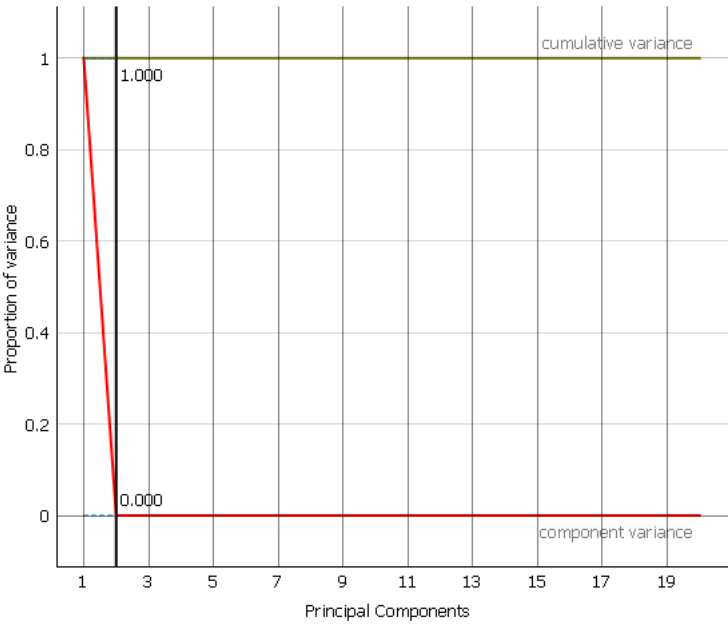


Normalize data: True  
Selected components: 2  
Explained variance: 99.000 %



Data instances: 2000  
Features: 2  
Meta attributes: None

	PC1 1.0	PC2 0.0
1	-2.0447e+07	-0.372033
2	7.63301e+06	0.190472
3	-2.20886e+07	1.29563
4	-1.0079e+07	0.713748
5	-2.6063e+07	3.31143
6	-1.56086e+07	-0.0240025
7	-4.54939e+06	-1.45946
8	1.03114e+07	1.82066
9	7.89221e+06	0.432509
10	5.81861e+06	1.46813
11	-1.89782e+07	-0.536972
12	1.22986e+07	0.972498
13	1.50634e+07	-2.89066
14	-7.14139e+06	-1.82616
15	-2.39894e+07	0.828499
16	1.18666e+07	-2.0655
17	1.6705e+07	-3.77415
18	-1.64726e+07	-2.88775
19	-2.99419e+06	0.741765
20	-7.48699e+06	1.08529
21	-1.21526e+07	0.113599
22	2.8801e+07	3.2433
23	1.29034e+07	1.86628
24	-3.34934e+07	0.799065
25	-1.45718e+07	-1.88769
26	1.81738e+07	-1.97926
27	-8.35099e+06	-1.55901
28	1.76554e+07	-2.43786
29	3.29482e+07	0.31003
30	1.44586e+07	3.34605
31	-2.96918e+07	-0.32333
32	-3.11606e+07	0.738505
33	2.46538e+07	-4.8493
34	-1.8719e+07	-2.97948
35	2.08522e+07	3.57654
36	1.4977e+07	0.376244
37	-9.64699e+06	0.880813
38	-2.26934e+07	-3.00887
39	-7.57339e+06	-0.0326056
40	-5.93179e+06	1.08459
41	-3.77179e+06	2.66004
42	2.8801e+07	2.05818
43	-5.75899e+06	1.38977
44	5.73221e+06	-0.91193
45	-2.71862e+07	0.217167
46	4.9969e+07	-3.82277
47	4.5649e+07	-3.79648
48	-5.41339e+06	1.57604
49	-1.3967e+07	-4.9828
50	-2.06198e+07	-2.02822
51	1.47178e+07	-2.11936
52	2.10341e+06	-2.43871
53	2.29258e+07	-1.80314
54	9.53381e+06	-2.79084
55	-7.83259e+06	1.41015
56	-2.5631e+07	0.190076
57	6.68261e+06	-2.62993
58	-3.02966e+07	-1.50762
59	7.46021e+06	0.820637
60	-3.42619e+06	3.16479
61	1.61002e+07	4.54402
62	-2.64086e+07	1.05117
63	-4.98139e+06	-2.92229
64	-2.9087e+07	1.08489
65	-315792	1.77571
66	-1.68182e+07	0.385533
67	2.69002e+07	0.782057
68	2.18981e+06	0.771439
69	1.41221e+06	0.304215
70	-1.15478e+07	-4.55106
71	3.06154e+07	1.2528
72	1.68778e+07	-1.48359
73	-2.2175e+07	-1.98787

74	1.69642e+07	-4.22428
75	2.72458e+07	3.41774
76	7.71941e+06	0.288147
77	-1.18934e+07	-2.51103
78	-6.19099e+06	-2.31739
79	1.90378e+07	-2.2982
80	6.07781e+06	-2.13282
81	-2.91734e+07	-1.41239
82	2.9665e+07	0.0786957
83	1.42858e+07	4.19852
84	-2.07926e+07	-1.60534
85	1.4113e+07	1.73263
86	-5.06779e+06	3.64366
87	-2.48534e+07	1.45904
88	3.2257e+07	1.84164
89	-2.3471e+07	0.547254
90	-3.02102e+07	-0.763097
91	2.2321e+07	-3.6159
92	-2.0447e+07	2.44264
93	1.86922e+07	1.72359
94	1.38538e+07	-1.98799
95	-6.10459e+06	-0.00998679
96	-1.12022e+07	-5.28357
97	-2.6927e+07	0.925824
98	1.64458e+07	-2.45714
99	-2.78774e+07	-1.26607
100	7.97861e+06	1.70598
+ 1900 more		



Data instances: 2000  
Features: 31  
Meta attributes: 2

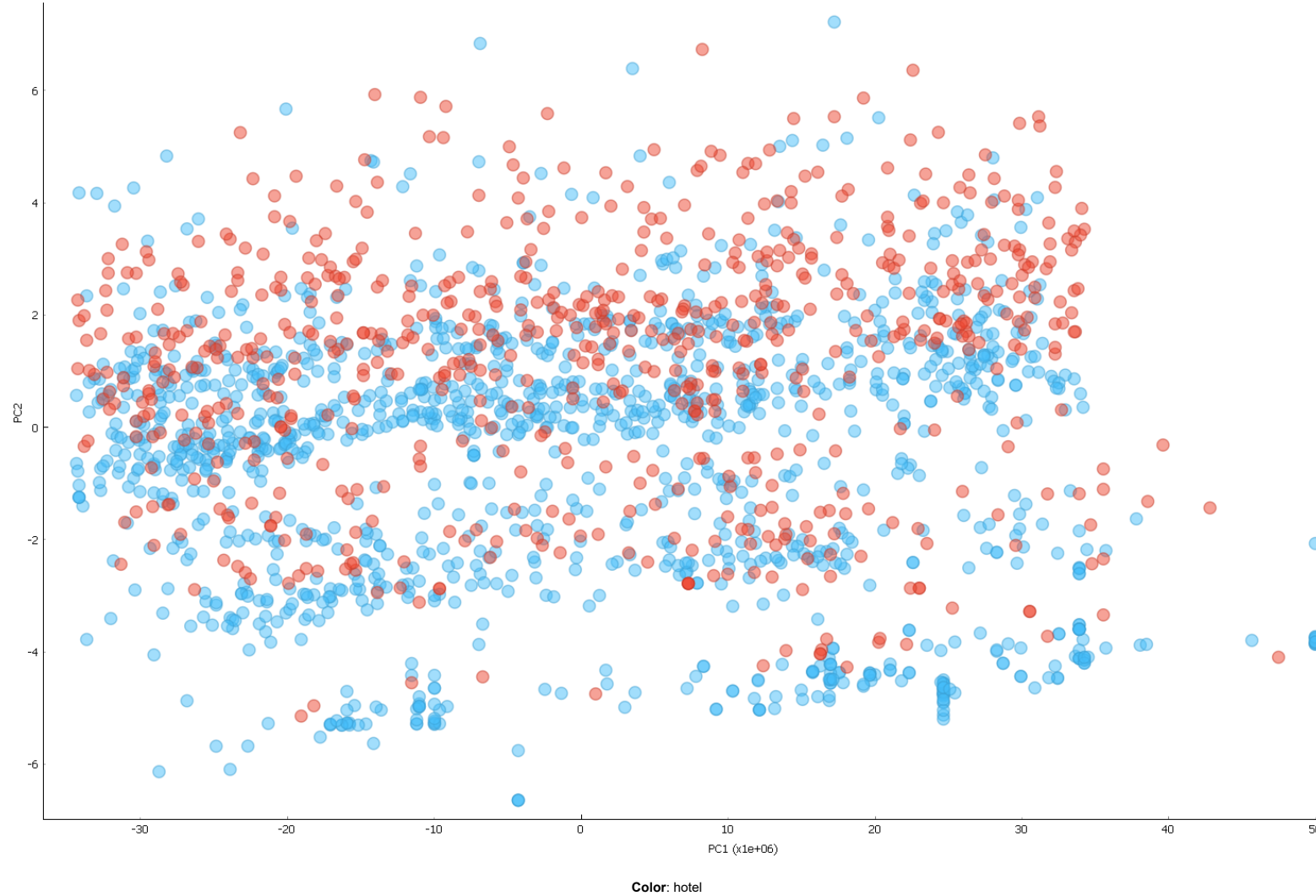
	PC1 1.0	PC2 0.0	hotel	customer_type	market_segment	distribution_channel	reserved_room_type	lead_time	reservation_status	stays_in_weekend_nights
1	-2.0447e+07	-0.372033	City Hotel	Transient-Party	Groups	TA/TO	A	116	Check-Out	0
2	7.63301e+06	0.190472	City Hotel	Transient	Online TA	TA/TO	A	113	Check-Out	1
3	-2.20886e+07	1.29563	City Hotel	Transient	Online TA	TA/TO	G	66	Check-Out	0
4	-1.0079e+07	0.713748	City Hotel	Transient	Online TA	TA/TO	A	17	Check-Out	0
5	-2.6063e+07	3.31143	Resort Hotel	Transient-Party	Groups	TA/TO	D	203	Check-Out	2
6	-1.56086e+07	-0.0240025	Resort Hotel	Transient-Party	Groups	Corporate	A	2	Check-Out	0
7	-4.54939e+06	-1.45946	Resort Hotel	Transient-Party	Groups	Corporate	A	131	Canceled	2
8	1.03114e+07	1.82066	Resort Hotel	Transient	Online TA	TA/TO	A	148	Check-Out	1
9	7.89221e+06	0.432509	Resort Hotel	Transient-Party	Groups	TA/TO	A	197	Check-Out	1
10	5.81861e+06	1.46813	City Hotel	Transient	Online TA	TA/TO	A	33	Check-Out	0
11	-1.89782e+07	-0.536972	City Hotel	Transient-Party	Groups	TA/TO	A	174	Check-Out	2
12	1.22986e+07	0.972498	Resort Hotel	Transient-Party	Offline TA/TO	TA/TO	A	46	Check-Out	0
13	1.50634e+07	-2.89066	Resort Hotel	Transient	Groups	TA/TO	D	238	Canceled	0
14	-7.14139e+06	-1.82616	Resort Hotel	Transient	Online TA	TA/TO	A	65	Canceled	1
15	-2.39894e+07	0.828499	City Hotel	Transient-Party	Direct	Direct	A	8	Check-Out	0
16	1.18666e+07	-2.0655	City Hotel	Transient	Online TA	TA/TO	A	8	Canceled	1
17	1.6705e+07	-3.77415	Resort Hotel	Transient	Groups	TA/TO	A	74	Canceled	1
18	-1.64726e+07	-2.88775	City Hotel	Transient	Online TA	TA/TO	A	121	Canceled	1
19	-2.99419e+06	0.741765	City Hotel	Transient	Online TA	TA/TO	A	55	Check-Out	1
20	-7.48699e+06	1.08529	Resort Hotel	Transient-Party	Online TA	TA/TO	A	166	Check-Out	2
21	-1.21526e+07	0.113599	City Hotel	Transient	Online TA	TA/TO	A	3	Check-Out	1
22	2.8801e+07	3.2433	Resort Hotel	Transient	Direct	Direct	A	65	Check-Out	2
23	1.29034e+07	1.86628	Resort Hotel	Transient	Online TA	TA/TO	A	11	Check-Out	0
24	-3.34934e+07	0.799065	City Hotel	Transient	Online TA	TA/TO	D	141	Check-Out	2
25	-1.45718e+07	-1.88769	City Hotel	Transient	Online TA	TA/TO	D	24	Canceled	1
26	1.81738e+07	-1.97926	City Hotel	Transient	Online TA	TA/TO	A	56	Canceled	0
27	-8.35099e+06	-1.55901	City Hotel	Transient	Online TA	TA/TO	D	59	Canceled	2
28	1.76554e+07	-2.43786	City Hotel	Transient	Online TA	TA/TO	A	103	Canceled	0
29	3.29482e+07	0.31003	City Hotel	Transient-Party	Groups	TA/TO	A	271	Check-Out	0
30	1.44586e+07	3.34605	Resort Hotel	Transient	Online TA	TA/TO	A	0	Check-Out	1
31	-2.96918e+07	-0.32333	City Hotel	Transient	Online TA	TA/TO	A	49	Check-Out	2
32	-3.11606e+07	0.738505	Resort Hotel	Transient	Online TA	TA/TO	H	226	Check-Out	1
33	2.46538e+07	-4.8493	City Hotel	Transient	Groups	TA/TO	A	468	Canceled	0
34	-1.8719e+07	-2.97948	City Hotel	Transient	Online TA	TA/TO	A	133	Canceled	0
35	2.08522e+07	3.57654	Resort Hotel	Transient-Party	Groups	Corporate	A	19	Check-Out	0
36	1.4977e+07	0.376244	City Hotel	Transient-Party	Groups	TA/TO	A	59	Check-Out	2
37	-9.64699e+06	0.880813	Resort Hotel	Transient	Online TA	TA/TO	A	116	Check-Out	1
38	-2.26934e+07	-3.00887	City Hotel	Transient	Online TA	TA/TO	A	26	Canceled	1
39	-7.57339e+06	-0.0326056	City Hotel	Transient	Online TA	TA/TO	A	28	Check-Out	0
40	-5.93179e+06	1.08459	City Hotel	Transient	Online TA	TA/TO	A	15	Check-Out	0
41	-3.77179e+06	2.66004	Resort Hotel	Transient-Party	Groups	Direct	A	0	Check-Out	0
42	2.8801e+07	2.05818	City Hotel	Transient-Party	Offline TA/TO	TA/TO	A	5	Check-Out	0
43	-5.75899e+06	1.38977	City	Transient	Online TA	TA/TO	D	38	Check-Out	

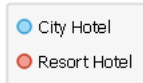
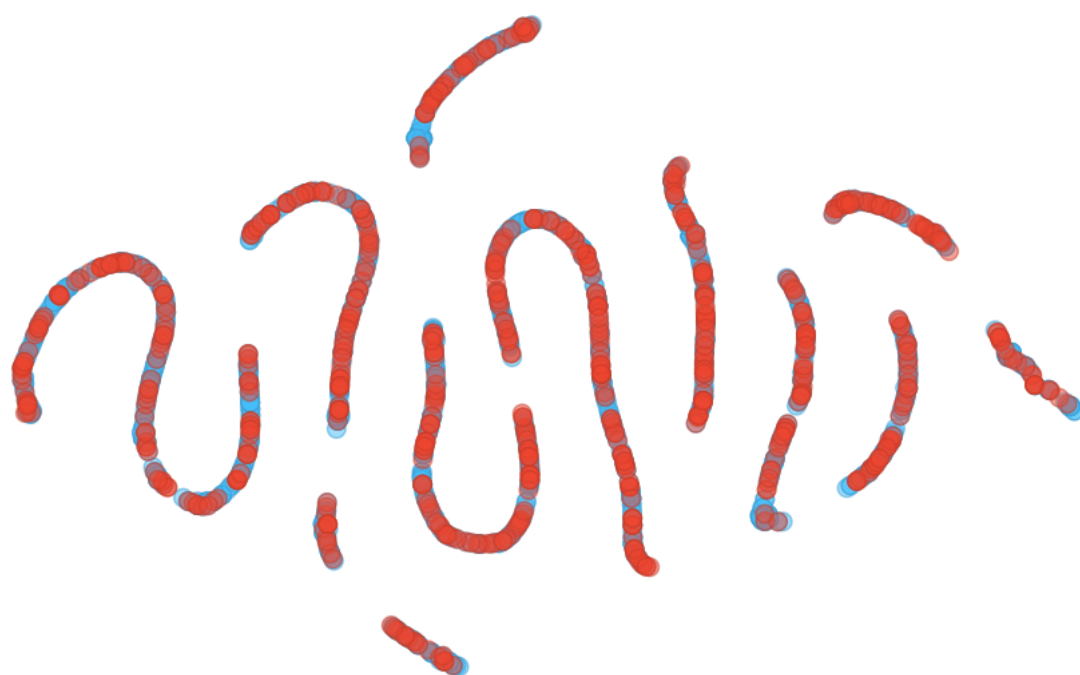
			Hotel								
44	5.73221e+06	-0.91193	City Hotel	Transient	Online TA	TA/TO	D	0	Canceled		0
45	-2.71862e+07	0.217167	Resort Hotel	Transient	Online TA	TA/TO	A	33	Check-Out		1
46	4.9969e+07	-3.82277	City Hotel	Contract	Groups	TA/TO	A	332	Canceled		1
47	4.5649e+07	-3.79648	City Hotel	Transient	Offline TA/TO	TA/TO	A	329	Canceled		2
48	-5.41339e+06	1.57604	City Hotel	Transient	Online TA	TA/TO	D	6	Check-Out		1
49	-1.3967e+07	-4.9828	City Hotel	Transient	Offline TA/TO	TA/TO	A	108	Canceled		0
50	-2.06198e+07	-2.02822	City Hotel	Transient	Online TA	TA/TO	F	81	Canceled		0
51	1.47178e+07	-2.11936	City Hotel	Transient	Online TA	TA/TO	A	90	Canceled		1
52	2.10341e+06	-2.43871	City Hotel	Transient	Online TA	TA/TO	A	134	Canceled		1
53	2.29258e+07	-1.80314	Resort Hotel	Transient	Offline TA/TO	TA/TO	A	118	Canceled		3
54	9.53381e+06	-2.79084	City Hotel	Transient-Party	Groups	TA/TO	A	118	Canceled		1
55	-7.83259e+06	1.41015	City Hotel	Transient	Direct	Direct	A	9	Check-Out		1
56	-2.5631e+07	0.190076	Resort Hotel	Transient-Party	Offline TA/TO	TA/TO	A	128	Check-Out		2
57	6.68261e+06	-2.62993	City Hotel	Transient-Party	Offline TA/TO	TA/TO	A	11	Canceled		0
58	-3.02966e+07	-1.50762	Resort Hotel	Transient	Direct	Direct	A	45	Canceled		0
59	7.46021e+06	0.820637	City Hotel	Transient	Online TA	TA/TO	A	147	Check-Out		0
60	-3.42619e+06	3.16479	Resort Hotel	Transient	Direct	TA/TO	A	12	Check-Out		0
61	1.61002e+07	4.54402	Resort Hotel	Transient	Direct	Direct	A	0	Check-Out		0
62	-2.64086e+07	1.05117	City Hotel	Transient	Online TA	TA/TO	E	99	Check-Out		0
63	-4.98139e+06	-2.92229	City Hotel	Transient	Online TA	TA/TO	A	249	Canceled		1
64	-2.9087e+07	1.08489	Resort Hotel	Transient	Online TA	TA/TO	D	293	Check-Out		2
65	-315792	1.77571	Resort Hotel	Transient	Online TA	TA/TO	D	112	Check-Out		1
66	-1.68182e+07	0.385533	City Hotel	Transient	Offline TA/TO	TA/TO	A	16	Check-Out		0
67	2.69002e+07	0.782057	City Hotel	Transient-Party	Groups	TA/TO	A	83	Check-Out		0
68	2.18981e+06	0.771439	Resort Hotel	Transient	Online TA	TA/TO	A	230	Check-Out		2
69	1.41221e+06	0.304215	City Hotel	Transient	Online TA	TA/TO	A	92	Check-Out		0
70	-1.15478e+07	-4.55106	Resort Hotel	Transient	Groups	TA/TO	A	86	Canceled		0
71	3.06154e+07	1.2528	City Hotel	Transient	Online TA	TA/TO	A	3	Check-Out		0
72	1.68778e+07	-1.48359	Resort Hotel	Transient	Online TA	TA/TO	A	47	Canceled		1
73	-2.2175e+07	-1.98787	City Hotel	Transient	Online TA	TA/TO	D	107	Canceled		1
74	1.69642e+07	-4.22428	City Hotel	Transient	Offline TA/TO	TA/TO	A	105	Canceled		0
75	2.72458e+07	3.41774	City Hotel	Transient	Corporate	Corporate	A	3	Check-Out		1
76	7.71941e+06	0.288147	Resort Hotel	Transient-Party	Groups	TA/TO	A	199	Check-Out		1
77	-1.18934e+07	-2.51103	City Hotel	Transient	Online TA	TA/TO	A	244	Canceled		2
78	-6.19099e+06	-2.31739	Resort Hotel	Transient	Online TA	TA/TO	A	237	Canceled		1
79	1.90378e+07	-2.2982	Resort Hotel	Transient	Online TA	TA/TO	A	0	No-Show		0
80	6.07781e+06	-2.13282	City Hotel	Transient	Online TA	TA/TO	A	61	Canceled		1
81	-2.91734e+07	-1.41239	Resort Hotel	Transient	Online TA	TA/TO	E	28	Canceled		2
82	2.9665e+07	0.0786957	Resort Hotel	Transient	Direct	Direct	A	69	Canceled		2
83	1.42858e+07	4.19852	Resort Hotel	Transient	Online TA	TA/TO	E	19	Check-Out		2
84	-2.07926e+07	-1.60534	Resort Hotel	Transient-Party	Groups	Corporate	C	239	Canceled		2
85	1.4113e+07	1.73263	Resort Hotel	Transient	Online TA	TA/TO	A	11	Check-Out		2
86	-5.06779e+06	3.64366	Resort Hotel	Transient	Direct	Direct	F	26	Check-Out		2
87	-2.48534e+07	1.45904	City Hotel	Transient	Direct	Direct	A	90	Check-Out		2
88	3.2257e+07	1.84164	Resort Hotel	Transient	Online TA	TA/TO	A	51	Check-Out		0
89	-2.3471e+07	0.547254	City Hotel	Transient	Online TA	TA/TO	D	232	Check-Out		0

90	-3.02102e+07	-0.763097	City Hotel	Transient	Online TA	TA/TO	A	109	Check-Out	0
91	2.2321e+07	-3.6159	City Hotel	Transient	Offline TA/TO	TA/TO	A	34	Canceled	0
92	-2.0447e+07	2.44264	Resort Hotel	Transient-Party	Direct	Direct	A	3	Check-Out	0
93	1.86922e+07	1.72359	Resort Hotel	Transient-Party	Groups	TA/TO	A	131	Check-Out	2
94	1.38538e+07	-1.98799	Resort Hotel	Transient	Offline TA/TO	TA/TO	A	30	Canceled	2
95	-6.10459e+06	-0.00998679	Resort Hotel	Transient-Party	Online TA	TA/TO	G	91	Canceled	2
96	-1.12022e+07	-5.28357	City Hotel	Transient	Groups	TA/TO	A	128	Canceled	2
97	-2.6927e+07	0.925824	City Hotel	Transient	Online TA	TA/TO	E	11	Check-Out	2
98	1.64458e+07	-2.45714	City Hotel	Transient	Online TA	TA/TO	A	130	Canceled	0
99	-2.78774e+07	-1.26607	City Hotel	Transient-Party	Groups	TA/TO	A	448	Check-Out	2
100	7.97861e+06	1.70598	Resort Hotel	Transient	Online TA	TA/TO	A	115	Check-Out	0
+ 1900 more										

Scatter Plot

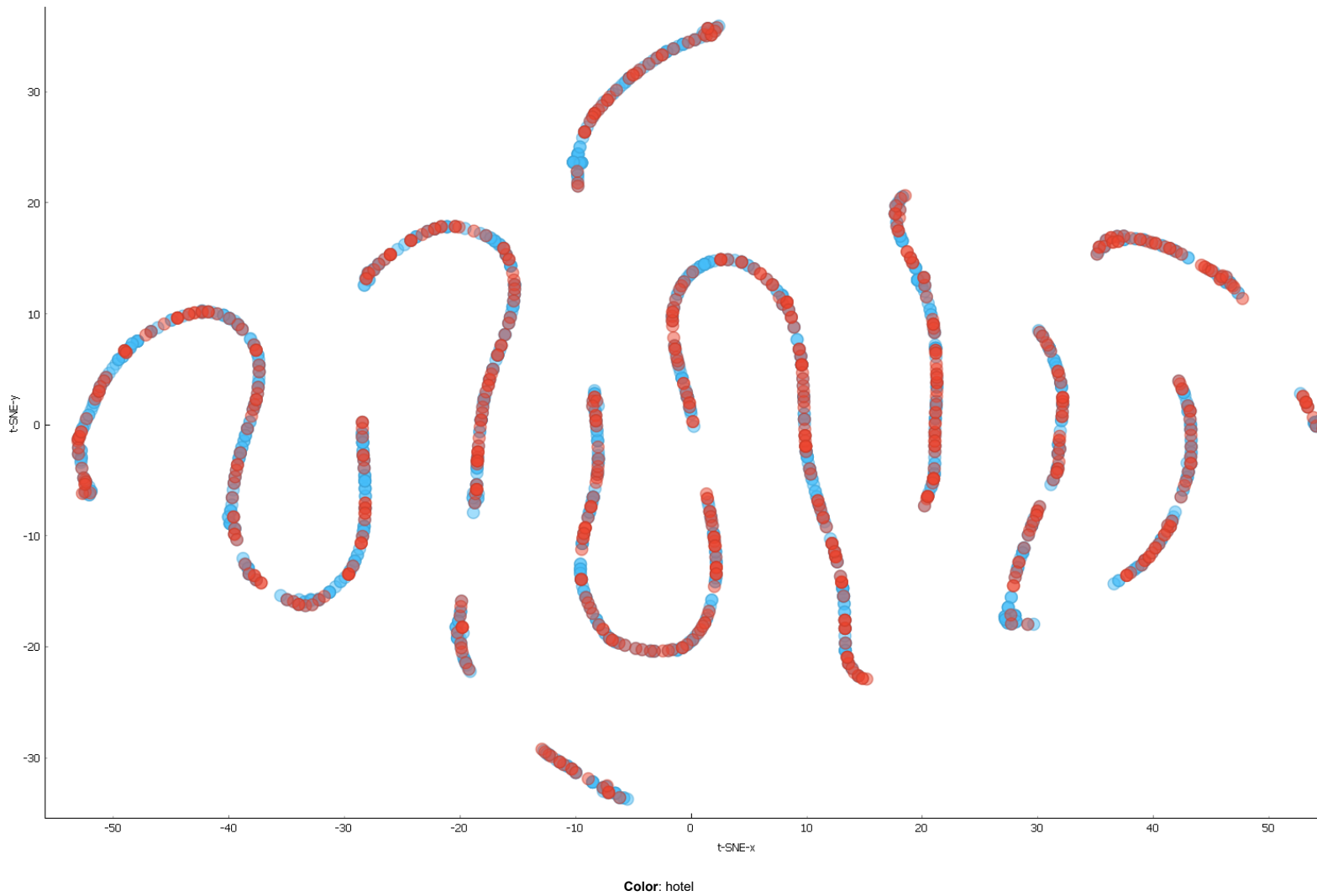
Sat Jun 04 22, 09:02:46





Color: hotel





## Manifold Learning

Sat Jun 04 22, 09:03:15

**Method:** Spectral Embedding

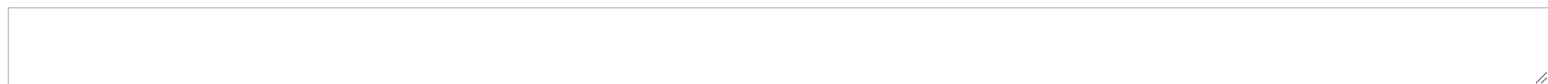
### Method parameters

**n\_components:** 2  
**affinity:** nearest\_neighbors

### Data

**Data instances:** 2000

**Features:** hotel, customer\_type, market\_segment, distribution\_channel, reserved\_room\_type, lead\_time, reservation\_status, stays\_in\_weekend\_nights, arrival\_date\_day\_of\_month, stays\_in\_week\_nights, arrival\_date\_week\_number, total\_of\_special\_requests, arrival\_date\_year, previous\_bookings\_not\_canceled, arrival\_date\_month, adults, deposit\_type, previous\_cancellations, company, babies, country, adr, children, is\_repeated\_guest, meal, days\_in\_waiting\_list, assigned\_room\_type, required\_car\_parking\_spaces, booking\_changes, is\_canceled, reservation\_status\_date (total: 31 features)





Data instances: 2000  
Features: 2  
Meta attributes: None

	C0	C1
1	0.0018177	-0.000713263
2	-0.000809335	0.00172846
3	0.00192523	-0.00106882
4	0.000900189	0.00154616
5	0.00211833	-0.0017578
6	0.0014687	0.000301622
7	0.000401136	0.00212747
8	-0.00107857	0.00127214
9	-0.000831147	0.00169922
10	-0.000642363	0.00192219
11	0.00171628	-0.000397824
12	-0.00127368	0.000858658
13	-0.00148471	0.00030738
14	0.00065664	0.00189035
15	0.0020275	-0.00142688
16	-0.00122487	0.000970751
17	-0.00158234	1.8604e-05
18	0.00150778	0.000198244
19	0.000250637	0.00220955
20	0.000684561	0.00185767
21	0.00112035	0.00111709
22	-0.00216038	-0.00199618
23	-0.00131754	0.000753094
24	0.00219411	-0.00204246
25	0.00135894	0.000575856
26	-0.00168438	-0.000305572
27	0.000779542	0.00173061
28	-0.00165005	-0.000193875
29	-0.00218293	-0.00208412
30	-0.00143227	0.00045203
31	0.0021867	-0.00201415
32	0.0021931	-0.00203858
33	-0.00205687	-0.00160273
34	0.00169327	-0.000328695
35	-0.00186662	-0.000922052
36	-0.00147631	0.000331341
37	0.000869477	0.00159825
38	0.00195289	-0.00116453
39	0.000705936	0.00182809
40	0.000510855	0.00203946
41	0.00031923	0.00217825
42	-0.00216006	-0.00199494
43	0.000495223	0.0020541
44	-0.000634011	0.0019293
45	0.0021572	-0.00190295
46	-0.00218351	-0.00208638
47	-0.00218367	-0.00208702
48	0.000466657	0.0020772
49	0.00130151	0.000712411
50	0.00182673	-0.000742163
51	-0.00145629	0.000386777
52	-0.000256801	0.00218203
53	-0.00198635	-0.00134495
54	-0.00100769	0.00140663
55	0.000735618	0.00179126
56	0.00210237	-0.00169891
57	-0.000723463	0.00183518
58	0.00219017	-0.00202738
59	-0.000794602	0.00174828
60	0.000282563	0.00219746
61	-0.00154533	0.000130526
62	0.0021289	-0.001797
63	0.000426519	0.00210984
64	0.0021819	-0.00199591
65	-2.36537e-06	0.00224682
66	0.00153569	0.00012257
67	-0.0021226	-0.00185063
68	-0.000267366	0.00217745
69	-0.000173119	0.00221348
70	0.00107145	0.00122082
71	-0.00217823	-0.00206569
72	-0.00159183	-1.0153e-05
73	0.00192739	-0.00107623

74	-0.00159635	-2.39463e-05
75	-0.00213572	-0.0019012
76	-0.000813402	0.0017235
77	0.00110214	0.00115629
78	0.000549948	0.00200161
79	-0.00173796	-0.00048267
80	-0.000662391	0.00190141
81	0.0021833	-0.00200121
82	-0.00216736	-0.00202328
83	-0.00142356	0.000475608
84	0.00183581	-0.00077123
85	-0.0014142	0.000501255
86	0.000439959	0.0020996
87	0.00206492	-0.00156196
88	-0.00218196	-0.00208034
89	0.00199665	-0.00131734
90	0.00218961	-0.00202524
91	-0.00196617	-0.0012726
92	0.00181693	-0.00071057
93	-0.00172277	-0.000432062
94	-0.00138982	0.000565925
95	0.000530696	0.00202192
96	0.00103643	0.00129131
97	0.00214901	-0.00187238
98	-0.00156889	5.91883e-05
99	0.00216722	-0.0019405
100	-0.000845557	0.00167646
+ 1900 more		

