



→ SURVEY

Why?

- Why did you buy your smartphone in an offline store?
- What were the main difficulties during the buying process?
- What made you decide on the Galaxy S?

BEHAVIORAL DATA

What is she doing?

09:30 She has been exposed to a Samsung banner

09:31 She googles: "best smartphone 2017"

09:32 goes to www.apple.com/iphone

09:40 visits www.Samsung.com/galaxy

09:45 reads customer reviews at http://www.trustedreviews.com/opinions/

PROFILING

Who is she?

- Woman of 32 years
- Owns an iPhone
- She bought a new car last October
- Plans to go on holiday next month



OUR PANEL

Worldwide

	Traditional	Behavioural
Argentina	217,179	8,120
Brazil	388,926	12,200
Chile	218,089	6,200
Colombia	152,935	8,400
France	139,098	Q2 2018
Germany	79,208	430
Italy	97,016	Q2 2018
Mexico	280,634	11,165
Peru	119,010	2,025
Portugal	28,401	1,685
Spain	199,079	12,840
UK	133,466	1,985
USA	218,865	5,950
Other	29,164	





triunction b(b){neturn this.each(function()); (this.elecent-a(b));c.VERSION="3.3.7",c.TRANSITION_DURATION=150,C.DPO" b.data("target");if(d||(d-b.attr("href"),d-d&&d.replace(/.*(?=#[^\s]*\$)/,"")), a'), f-a. Event('hide. bs. tab'', (relatedTarget:b[@])), g-a. Event("show. bs. tab'', {relatedTarget:e[@)){var h-a(d);this.activate(b.closest("li"),c),this.activate(h,h.parent(),functi own.bs.tab",relatedTarget:e[0]})))}}},c.prototype.activate=function(b,d,e){func .active").removeClass("active").end().find('[data-toggle="tab"]').attr("aria-expanded",!1) ed",l0),h?(b[0].offsetWidth,b.addClass("in")):b.removeClass("fade"),b.parent(".dropd ")||!Id.find("> .fade").length);g.length&&h?g.one("bsTransitionEnd",f).emulateTransitio ar d-a.fn.tab;a.fn.tab-b,a.fn.tab.Constructor-c,a.fn.tab.noConflict=function(){return ow"));a(document).on("click.bs.tab.data-api",'[data-toggle="tab"]',e).on("click.bs.t strict; function b(b) (return this.each(function(){var d=a(this),e=d.data("bs.affix") sef bMe[b]())}var c-function(b,d){this.options=a.extend({},c.DEFAULTS,d),this.\$tal a.proxy(this.checkPosition,this)).on("click.bs.affix.data-api",a.proxy(this.checkPosi ,this.pinnedOffset-mull,this.checkPosition());c.VERSION="3.3.7",c.RESET="affix affi It may promote the second section (f,g) and (g,g) are eather second GRESDICTIO(#,D,C,D){var estimates get.servires(); better ==this.affixed)return null!=c?!(e+this.unpin<=f.top)&&"bottom":!(e+g<=a-d)&&"b ofton and actions affice of recommendation and the comment of the

Data

Overview



Analysis & conclusions



Informed decisions



List of web sites

National museums (MNAC)

Sports museums (Santiago Bernabéu, RM)

Historic buildings (Mezquita de Córdoba)

Tour guides (Civitatis)



How is the navigation data set?



	panelist_id	url †	domain [‡]	used_at	duration	device [‡]
42	011fc3d2476b2823	www.ticketea.com/	ticketea.com	2017-11-26 14:44:53	2	mobile
43	011fc3d2476b2823	www.ticketea.com/	ticketea.com	2017-11-26 14:45:02	21	mobile
44	0145a04d87b4503b	affiliate.ticketea.com/	ticketea.com	2017-02-23 02:17:27	2	mobile
45	0151935374af07da	www.ivam.es/exposiciones/sons-il%c2%b7lustrats-grans-il%	ivam.es	2017-12-14 14:43:28	63	mobile
46	0151c6033a29961d	www.civitatis.com/roma?aid=100&gclid=Cj0KCQjw9afOBRD	civitatis.com	2017-09-26 09:58:13	0	mobile
47	0151c6033a29961d	www.civitatis.com/roma/actividades/	civitatis.com	2017-09-26 09:58:13	0	mobile
48	0151c6033a29961d	www.civitatis.com/roma/tour-5-dias-italia	civitatis.com	2017-09-26 09:59:38	95	mobile
49	0151c6033a29961d	www.civitatis.com/roma/actividades/	civitatis.com	2017-09-26 10:01:13	11	mobile
50	0153d95d73f8f2b1	www.ticketea.com/	ticketea.com	2017-10-28 13:49:44	1	mobile
51	018236616788b781	www.mezquitadecordoba.org/venta-entradas-mezquita-cor	mezquitadecordoba.org	2017-01-17 22:33:32	18	mobile
52	018236616788b781	www.mezquitadecordoba.org/visita-mezquita-regular.asp	mezquitadecordoba.org	2017-01-17 22:33:50	39	mobile
53	018236616788b781	www.mezquitadecordoba.org/visita-mezquita-regular.asp	mezquitadecordoba.org	2017-01-17 22:35:46	14	mobile
54	018236616788b781	www.mezquitadecordoba.org/visitas-mezquita-cordoba.asp	mezquitadecordoba.org	2017-10-11 11:44:25	0	mobile
55	018236616788b781	www.mezquitadecordoba.org/visitas-mezquita-cordoba.asp	mezquitadecordoba.org	2017-10-21 14:33:22	21	mobile
56	018236616788b781	www.mezquitadecordoba.org/visita-mezquita-regular.asp	mezquitadecordoba.org	2017-10-21 14:33:43	33	mobile
57	018236616788b781	www.mezquitadecordoba.org/entradas-mezquita-cordoba.asp	mezquitadecordoba.org	2017-11-03 13:04:37	361	mobile
58	018236616788b781	www.mezquitadecordoba.org/visita-mezquita-privada.asp	mezquitadecordoba.org	2017-11-13 08:37:40	0	mobile
59	018236616788Ь781	www.mezquitadecordoba.org/venta-entradas-mezquita-cor	mezquitadecordoba.org	2017-11-14 09:50:55	615	mobile
60	019b6ffaf5d098b3	www2.museothyssen.org/thyssen/visita_virtual_permanente	museothyssen.org	2017-10-08 17:20:33	55	mobile
61	019b6ffaf5d098b3	$www2.muse othyssen.org/thyssen/visita_virtual_permanente$	museothyssen.org	2017-10-08 17:21:28	11	mobile
62	019b6ffaf5d098b3	www2.museothyssen.org/thyssen/visita virtual 2013/m2?on	museothyssen.org	2017-10-08 17:21:39	114	mobile



How did we get this data?

Premium users: meter installed

- Collected navigation data from Spain in 2017
 - Number of users: 3879
 - Number of pageviews: 71081



First attempts: counting observations

- Group by domain name
 - Popularity of web sites

- Compute real visits and group again
 - Tackle overestimation

	panelist_id	url	domain	used_at	duration	device
42	011fc3d2476b2823	www.ticketea.com/	ticketea.com	2017-11-26 14:44:53	2	mobile
43	011fc3d2476b2823	www.ticketea.com/	ticketea.com	2017-11-26 14:45:02	21	mobile
44	0145a04d87b4503b	affiliate.ticketea.com/	ticketea.com	2017-02-23 02:17:27	2	mobile
45	0151935374af07da	www.ivam.es/exposiciones/sons-il%c2%b7lustrats-grans-il%	ivam.es	2017-12-14 14:43:28	63	mobile
46	0151c6033a29961d	www.civitatis.com/roma?aid=100&gclid=Cj0KCQjw9afOBRD	civitatis.com	2017-09-26 09:58:13	0	mobile
47	0151c6033a29961d	www.civitatis.com/roma/actividades/	civitatis.com	2017-09-26 09:58:13	0	mobile
48	0151c6033a29961d	www.civitatis.com/roma/tour-5-dias-italia	civitatis.com	2017-09-26 09:59:38	95	mobile
49	0151c6033a29961d	www.civitatis.com/roma/actividades/	civitatis.com	2017-09-26 10:01:13	11	mobile
50	0153d95d73f8f2b1	www.ticketea.com/	ticketea.com	2017-10-28 13:49:44	1	mobile
51	018236616788b781	www.mezquitadecordoba.org/venta-entradas-mezquita-cor	mezquitadecordoba.org	2017-01-17 22:33:32	18	mobile
52	018236616788ь781	www.mezquitadecordoba.org/visita-mezquita-regular.asp	mezquitadecordoba.org	2017-01-17 22:33:50	39	mobile
53	018236616788ь781	www.mezquitadecordoba.org/visita-mezquita-regular.asp	mezquitadecordoba.org	2017-01-17 22:35:46	14	mobile
54	018236616788b781	www.mezquitadecordoba.org/visitas-mezquita-cordoba.asp	mezquitadecordoba.org	2017-10-11 11:44:25	0	mobile
55	018236616788b781	www.mezquitadecordoba.org/visitas-mezquita-cordoba.asp	mezquitadecordoba.org	2017-10-21 14:33:22	21	mobile
56	018236616788ь781	www.mezquitadecordoba.org/visita-mezquita-regular.asp	mezquitadecordoba.org	2017-10-21 14:33:43	33	mobile
57	018236616788b781	www.mezquitadecordoba.org/entradas-mezquita-cordoba.asp	mezquitadecordoba.org	2017-11-03 13:04:37	361	mobile
58	018236616788b781	www.mezquitadecordoba.org/visita-mezquita-privada.asp	mezquitadecordoba.org	2017-11-13 08:37:40	0	mobile
59	018236616788b781	www.mezquitadecordoba.org/venta-entradas-mezquita-cor	mezquitadecordoba.org	2017-11-14 09:50:55	615	mobile
60	019b6ffaf5d098b3	www2.museothyssen.org/thyssen/visita_virtual_permanente	museothyssen.org	2017-10-08 17:20:33	55	mobile
61	019b6ffaf5d098b3	$www 2. muse othyssen. or g/thyssen/visita_virtual_permanente$	museothyssen.org	2017-10-08 17:21:28	11	mobile
62	019b6ffaf5d098b3	www2.museothyssen.org/thyssen/visita_virtual_2013/m2?on	museothyssen.org	2017-10-08 17:21:39	114	mobile



We know a lot about our panelists

	panelist_id =	url	domain ‡	used_at	duration	device $^{\Diamond}$
- 1	000140569144c377	www.ticketea.com/	ticketea.com	2017-09-08 23:26:59	101	mobile
2	0002337dc86df4b4	www.museothyssen.org/exposiciones	museothyssen.org	2017-12-10 17:57:01	12	desktop
3	0002337dc86df4b4	www.museothyssen.org/exposiciones/monetboudin	museothyssen.org	2017-12-10 17:57:47	14	desktop
4	0002337dc86df4b4	www.museothyssen.org/exposiciones	museothyssen.org	2017-12-10 17:57:37	9	desktop
5	0002337dc86df4b4	www.museothyssen.org/coleccion	museothyssen.org	2017-12-10 17:54:56	29	desktop
6	0002337dc86df4b4	www.museothyssen.org/coleccion/artistas/gogh-vincent-van	museothyssen.org	2017-12-10 17:55:37	23	desktop
7	0002337dc86df4b4	www.museothyssen.org/coleccion/obras-maestras	museothyssen.org	2017-12-10 17:56:06	54	desktop
8	0002337dc86df4b4	www.museothyssen.org/buscador/tipo/exposicion	museothyssen.org	2017-12-10 17:57:14	23	desktop

	panelist_id	ageRangê	gender [‡]	socialClass	kids ‡	marital_status
1	000140569144c377	25_34	Male	High	No	Single
2	0002337dc86df4b4	more55	Female	Middle	Yes	Married
3	00075c82849f15dc	25_34	Female	High	No	Married
4	00206b2810cb5fa3	more55	Female	Middle	No	Widow
5	0027f436bfc617d8	45_54	Male	High	Yes	Married
6	00331810b021f03d	less25	Female	High	No	Single
7	003b313541293448	35_44	Male	Middle	Yes	Married
8	003c160d88367c30	35_44	Male	Middle	Yes	Married



	panelist_id [‡]	url ÷	domain [‡]	used_at	duration	device [‡]	ageRangē	gender [©]	socialClass	kids [‡]	marital_status
1	000140569144c377	www.ticketea.com/	ticketea.com	2017-09-08 23:26:59	101	mobile	25_34	Male	High	No	Single
2	0002337dc86df4b4	www.museothyssen.org/exposiciones	museothyssen.org	2017-12-10 17:57:01	12	desktop	more55	Female	Middle	Yes	Married
3	0002337dc86df4b4	www.museothyssen.org/exposiciones/monetboudin	museothyssen.org	2017-12-10 17:57:47	14	desktop	more55	Female	Middle	Yes	Married
4	0002337dc86df4b4	www.museothyssen.org/exposiciones	museothyssen.org	2017-12-10 17:57:37	9	desktop	more55	Female	Middle	Yes	Married
5	0002337dc86df4b4	www.museothyssen.org/coleccion	museothyssen.org	2017-12-10 17:54:56	29	desktop	more55	Female	Middle	Yes	Married
6	0002337dc86df4b4	www.museothyssen.org/coleccion/artistas/gogh-vincent-van	museothyssen.org	2017-12-10 17:55:37	23	desktop	more55	Female	Middle	Yes	Married
7	0002337dc86df4b4	www.museothyssen.org/coleccion/obras-maestras	museothyssen.org	2017-12-10 17:56:06	54	desktop	more55	Female	Middle	Yes	Married
8	0002337dc86df4b4	www.museothyssen.org/buscador/tipo/exposicion	museothyssen.org	2017-12-10 17:57:14	23	desktop	more55	Female	Middle	Yes	Married



What for?

- Data not corresponding to expectations: targeted campaigns
- Finding potential users
- Know your visitors: retention



- Use of more personal data
 - Professional status
 - Use of social media
 - Educational level
 - Press they read
 - Internet connection services at home
 - ... and so on



KPIs from the navigation data:

- Time frames of access

 most popular time windows of online navigation
- Specific periods of access (day/month...)

 impact of a campaign on a specific day/month
 find out most popular periods
- Device used to navigate
 detection of possible issues



Detection of online purchases

- Set of purchase urls is needed
- Domains considered:

```
museoreinasofia.es
sagradafamilia.org
patrimonionacional.es
cac.es
```

Example: merge it with age and time frame of access



The use of pre-post data

 Where did buyers go after purchasing tickets online?

- Where did they come from?

						_
	panelist_id	url	domain	used_at	duration	device =
1	000140569144c377	www.ticketea.com/	ticketea.com	2017-09-08 23:26:59	101	mobile
2	003c160d88367c30	www.civitatis.com/	civitatis.com	2017-03-18 16:28:36	1	mobile
3	003c160d88367c30	www.civitatis.com/	civitatis.com	2017-03-18 16:28:48	67	mobile
4	003c160d88367c30	tickets.cac.es/	cac.es	2017-04-29 17:03:41	101	mobile
5	003c160d88367c30	www.cac.es/es/hemisferic/descubre-el-hemisferic/descubre	cac.es	2017-08-07 16:29:24	26	mobile
6	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios.html	cac.es	2017-08-07 16:29:50	0	mobile
7	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/proyecc	cac.es	2017-08-07 16:29:50	24	mobile
8	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/proyecc	cac.es	2017-08-07 16:30:14	0	mobile
9	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios.html	cac.es	2017-08-07 16:30:31	0	mobile
10	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/proyecc	cac.es	2017-08-07 16:30:31	4	mobile
11	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/horarios	cac.es	2017-08-07 16:30:35	0	mobile
12	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/horarios	cac.es	2017-08-07 16:30:35	9	mobile
13	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/proyecc	cac.es	2017-08-07 16:30:44	3	mobile
14	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/horarios	cac.es	2017-08-07 16:30:47	3	mobile
15	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/proyecc	cac.es	2017-08-07 16:30:50	3	mobile
16	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/horarios	cac.es	2017-08-07 16:30:53	6	mobile
17	003c160d88367c30	www.cac.es/es/hemisferic/planetarios-en-directo/Las-Noctu	cac.es	2017-08-07 16:30:59	2	mobile
18	003c160d88367c30	www.cac.es/es/hemisferic/proyecciones-y-horarios/horarios	cac.es	2017-08-07 16:31:01	92	mobile
19	00521c913df66a49	www.inspain.org/	inspain.org	2017-05-10 10:22:20	34	mobile



Let's move to the second part of the workshop...

... R scripting!

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genuine data