

# Capítulo 1

## Configuración del entorno de programación

Script para crear la base de datos.

```
1  =====
2  -- SQLite Script generated manually
3  -- Date      : 29/01/2018
4  -- model     : saccadedb
5  -- author    : Christian Wiche
6  =====
7  pragma recursive_triggers=1;
8  pragma foreign_keys=1;
9
10
11 =====
12 -- MAIN CONFIG TABLE
13 =====
14 create table if not exists master (
15     mas_name          varchar(50)      not null,
16     mas_screen        int              not null    default 0,
17     mas_tracker       varchar(20)      not null    default 'None',
18     mas_monitor       varchar(50)      not null    default 'default',
19     mas_path          varchar(200)     not null    default './events',
20     primary key (mas_name)
21 );
22
23 =====
24 -- EXPERIMENT-RELATED TABLES
25 =====
26 -- Experiment: base table -----
27 create table if not exists experiment (
28     exp_code          varchar(10)      not null,
29     exp_name          varchar(50)      not null,
30     exp_version       varchar(10)      not null,
31     exp_description   text             null        default '',
32     exp_instructions  text             null        default '',
33     exp_comments      text             null        default '',
34     exp_date_creation timestamp        null        default current_timestamp,
35     exp_date_update   timestamp        null        default current_timestamp,
36     primary key (
37         exp_name,
38         exp_version
```

```

39     )
40 );
41 -- date update
42 create trigger if not exists trg_exp
43     after update of
44         exp_code,
45         exp_name,
46         exp_version,
47         exp_description,
48         exp_instructions,
49         exp_comments
50     on experiment
51     begin
52         update experiment
53         set exp_date_update = current_timestamp
54         where exp_code = new.exp_code;
55     end;
56 -- index
57 create unique index if not exists unq_exp on experiment (exp_code);
58
59 -----
60 -- Experiment: exp_dia -----
61 create table if not exists exp_dia (
62     exp_code          varchar(10)          not null,
63     dia_is_active     tinyint              not null    default 1,
64     dia_ask_age       tinyint              not null    default 1,
65     dia_ask_gender    tinyint              not null    default 1,
66     dia_ask_glasses   tinyint              not null    default 1,
67     dia_ask_eye_color tinyint              not null    default 1,
68     primary key (exp_code)
69     constraint fk_exp_dia
70         foreign key (exp_code)
71         references experiment (exp_code)
72         on delete cascade
73         on update cascade
74 );
75 -- index
76 create index if not exists idx_exp_dia on exp_dia (exp_code asc);
77
78 -----
79 -- Experiment: exp_con -----
80 create table if not exists exp_con (
81     exp_code          varchar(10)          not null,
82     con_need_space    tinyint              not null    default 0,
83     con_is_random     tinyint              not null    default 0,
84     con_is_rest       tinyint              not null    default 0,
85     con_rest_period   int                  not null    default 0,
86     con_rest_time     float                 not null    default 0.0,
87     primary key (exp_code)
88     constraint fk_exp_con
89         foreign key (exp_code)
90         references experiment (exp_code)
91         on delete cascade
92         on update cascade
93 );
94 -- index
95 create index if not exists idx_exp_con on exp_con (exp_code asc);
96
97 -----
98 -- TEST-RELATED TABLES (EXPERIMENT CHILD)
99 -----
100 -- Test: base table -----
101 create table if not exists test (
102     exp_code          varchar(10)          not null,
103     tes_index         int                  not null    default 1,
104     tes_name          varchar(50)          not null    default 'Unnamed',
105     tes_description    text                 null        default '',
106     tes_quantity      int                  not null    default 1,

```

```

107     primary key (
108         exp_code,
109         tes_index
110     )
111     constraint fk_tes
112         foreign key (exp_code)
113         references experiment (exp_code)
114         on delete cascade
115         on update cascade
116 );
117 -- index
118 create index if not exists idx_tes on test (exp_code asc, tes_index asc);
119
120 -----
121 -- Test: tes_frame -----
122 create table if not exists frame (
123     exp_code          varchar(10)      not null,
124     tes_index         int              not null default 1,
125     fra_index         int              not null default 1,
126     fra_name          varchar(50)      not null default 'Unnamed',
127     fra_color         varchar(20)      not null default 'black',
128     fra_is_task       tinyint          not null default 0,
129     fra_keys_allowed  text,
130     fra_keys_selected text,
131     fra_time          float            not null default 0.0,
132     primary key (
133         exp_code,
134         tes_index,
135         fra_index
136     )
137     constraint fk_fra
138         foreign key (exp_code, tes_index)
139         references test (exp_code, tes_index)
140         on delete cascade
141         on update cascade
142 );
143 -- index
144 create index if not exists idx_fra on frame (exp_code asc, tes_index asc, fra_index asc);
145
146 -----
147 -- Test: tes_fra_object -----
148 create table if not exists component (
149     exp_code          varchar(10)      not null,
150     tes_index         int              not null default 1,
151     fra_index         int              not null default 1,
152     com_index         int              not null default 1,
153     com_name          varchar(50)      not null default 'Unnamed',
154     com_units         varchar(10)      not null default 'deg',
155     com_pos_x         float            not null default 0.0,
156     com_pos_y         float            not null default 0.0,
157     com_orientation   float            not null default 0.0,
158     com_size          float            not null default 1.0,
159     com_shape         varchar(20)      not null default 'square',
160     com_image         blob             null,
161     com_color         varchar(20)      not null default 'white',
162     primary key (
163         exp_code,
164         tes_index,
165         fra_index,
166         com_index
167     )
168     constraint fk_obj
169         foreign key (exp_code, tes_index, fra_index)
170         references frame (exp_code, tes_index, fra_index)
171         on delete cascade
172         on update cascade
173 );
174 -- index

```

```
174 create index if not exists idx_obj on component (exp_code asc, tes_index asc, fra_index asc,  
com_index asc);
```

Algoritmo 1.1: hola!