

Play Ball!



Scoreboard
HTML
CSS
jQuery
PHP

AJAX Database Every 5 Seconds
Displays Game State & Scores

Admin Tool
HTML
CSS
jQuery
PHP

Create, Activate & Stop
Games In Database

Send, Receive &
Store Game Data

Internet

Push Can States
To Web server

Binary Off / On State
Pull Up: Can On Ground = 1

Common Ground

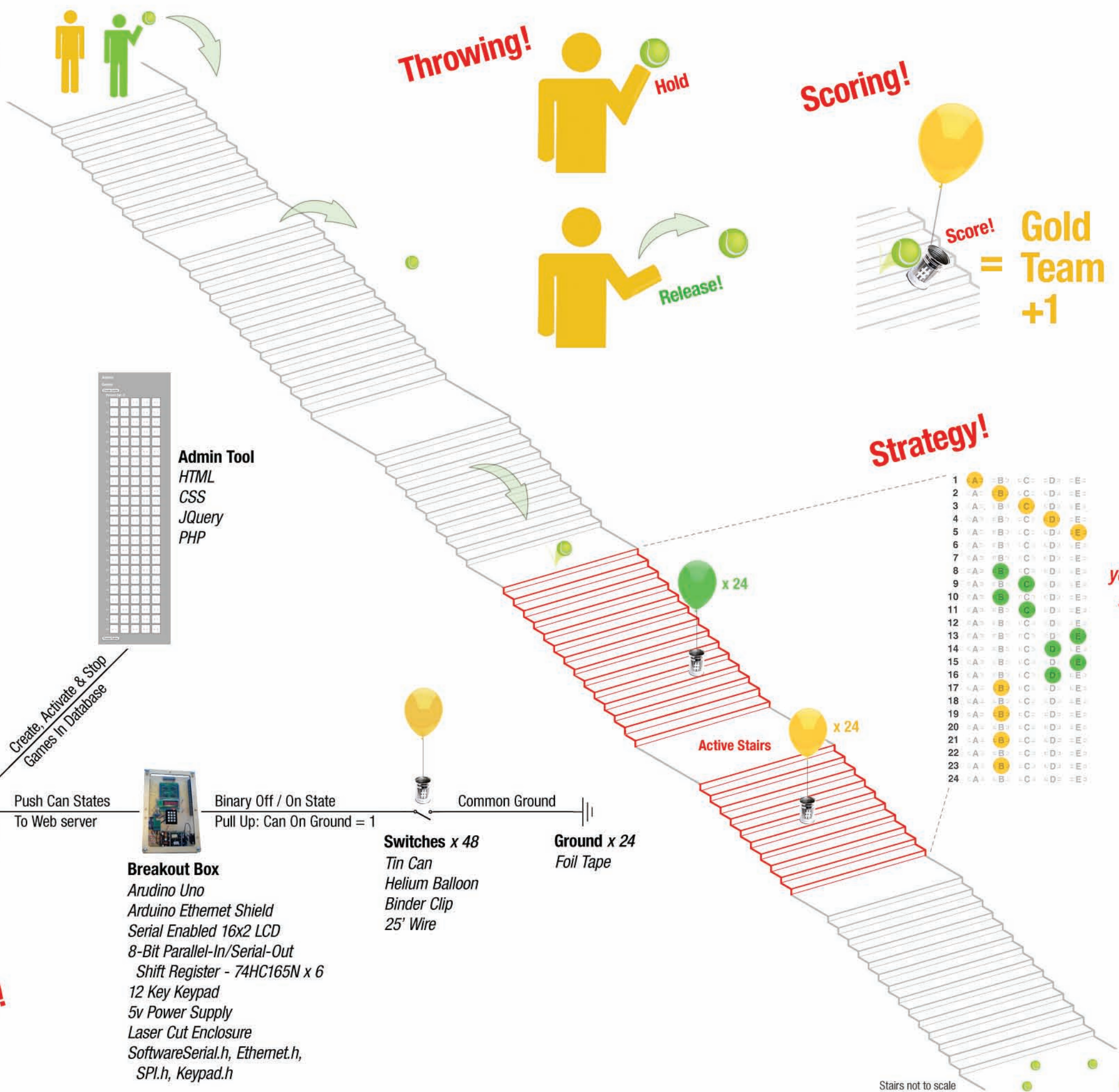
Switches x 48
Tin Can
Helium Balloon
Binder Clip
25' Wire

Ground x 24
Foil Tape

Breakout Box
Arduino Uno
Arduino Ethernet Shield
Serial Enabled 16x2 LCD
8-Bit Parallel-In/Serial-Out
Shift Register - 74HC165N x 6
12 Key Keypad
5v Power Supply
Laser Cut Enclosure
SoftwareSerial.h, Ethernet.h,
SPI.h, Keypad.h

Web Server
Linux
Apache
MySQL
PHP

Tales From The Backend!



Scoring!

Score! = Gold Team +1

Score! = Green Team +1

Strategy!

1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E
5	A	B	C	D	E
6	A	B	C	D	E
7	A	B	C	D	E
8	A	B	C	D	E
9	A	B	C	D	E
10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E
21	A	B	C	D	E
22	A	B	C	D	E
23	A	B	C	D	E
24	A	B	C	D	E

What is your team's strategy?



1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E
5	A	B	C	D	E
6	A	B	C	D	E
7	A	B	C	D	E
8	A	B	C	D	E
9	A	B	C	D	E
10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E
21	A	B	C	D	E
22	A	B	C	D	E
23	A	B	C	D	E
24	A	B	C	D	E

Stairs not to scale

Safety First!