

CO²DES

INTERACTIVE LIVE CODING EXPERIENCE

**ANTONIO GIGANTI
CARLO PULVIRENTI
LORENZO TALONE**

WHY

feeling of not being engaged

scarse interaction especially in streaming events

barrier between performer and audience

GOALS

The background of the slide features a dark, abstract design composed of numerous thin, glowing lines in shades of green, blue, and red. These lines form a complex network of triangles and other polygons, creating a sense of depth and motion. The overall aesthetic is futuristic and minimalist.

—
enhancing the live
coding experience

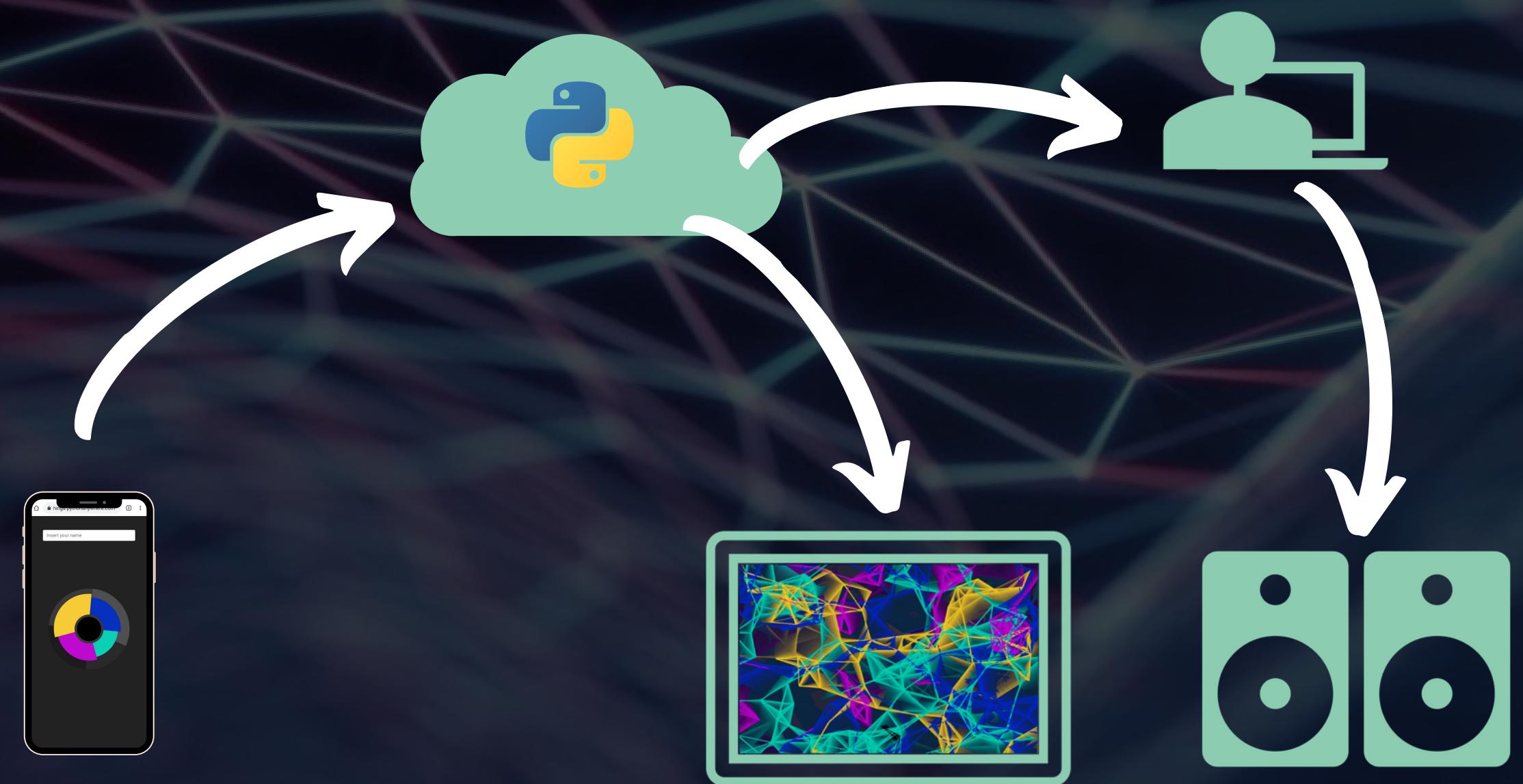
—
audience interaction

—
collaborative performance

INTERACTION

—
user-machine interaction

—
audio and visual changes

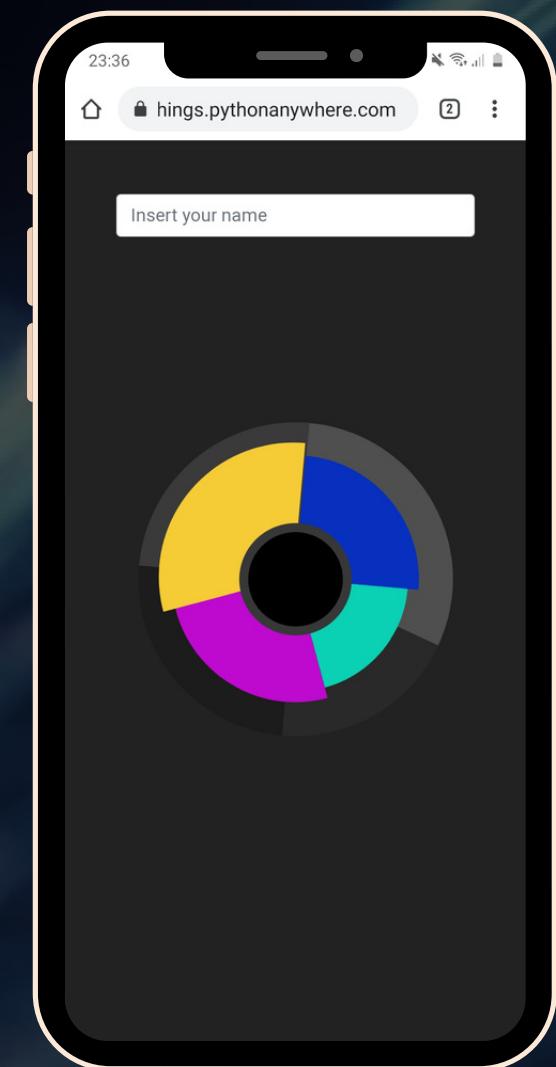


WEB APP

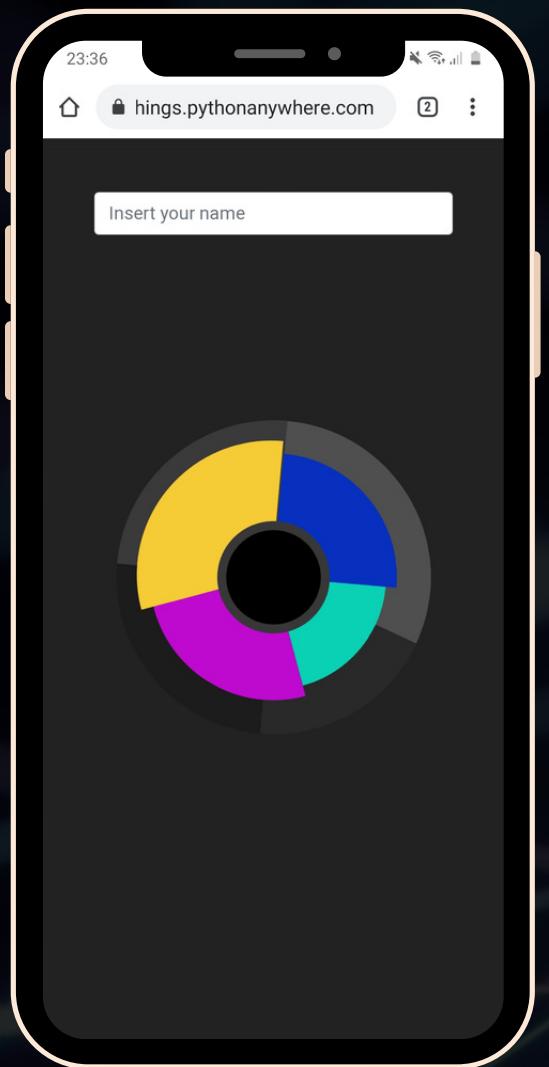


— **color selection**

— **parameter setting**



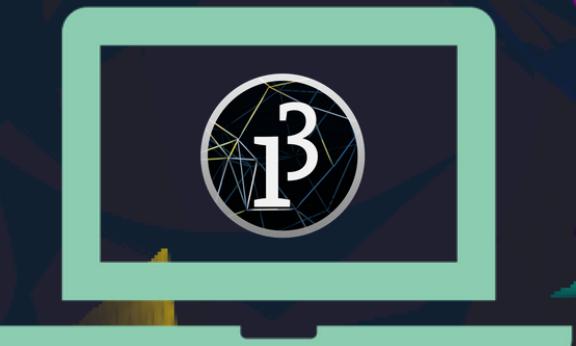
S E R V E R



-
- developed in **Python**
 - dispatching messages through **HTTP**



VISUAL



— developed in **Processing**

— every interaction generates geometric elements

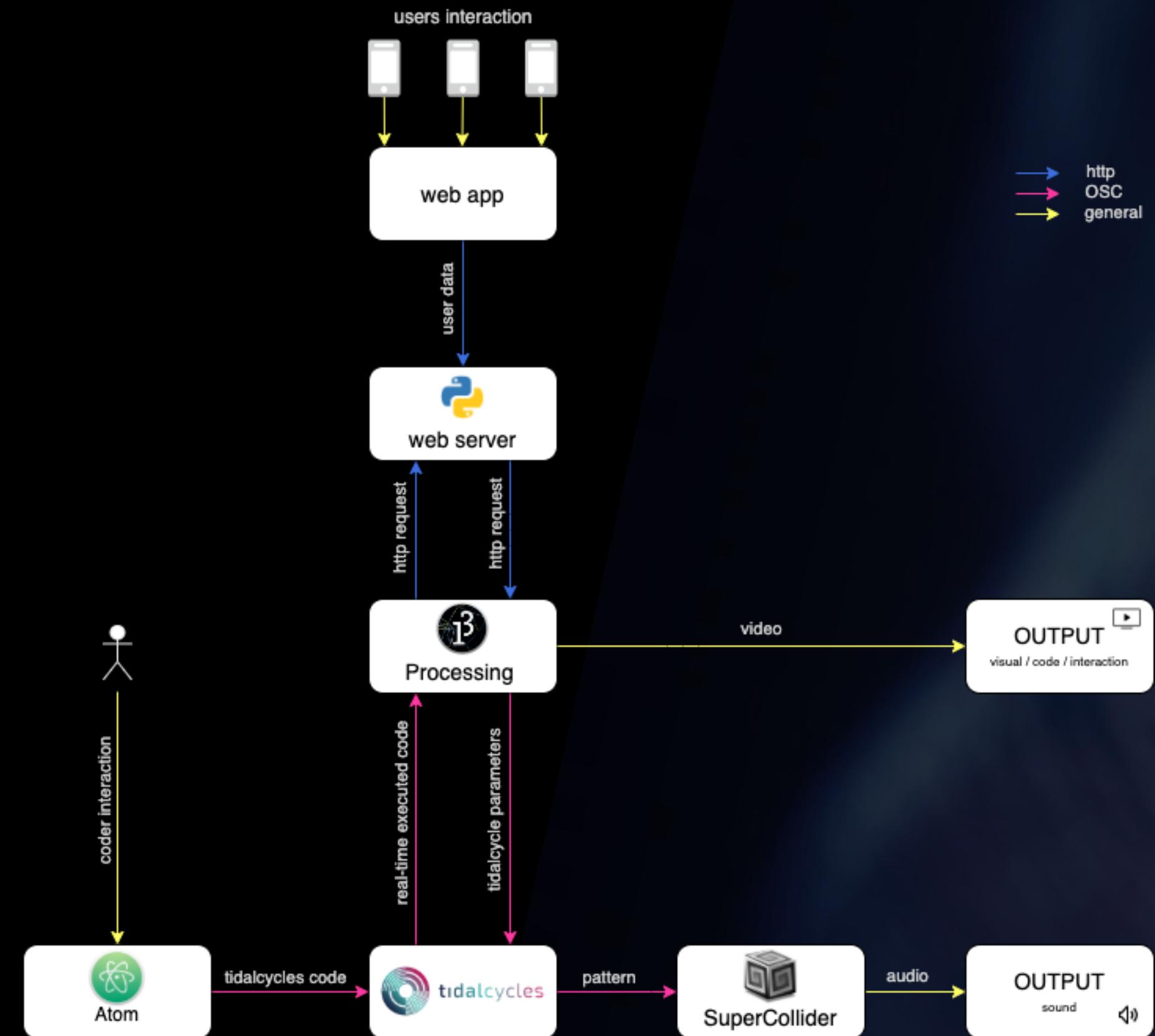
— colors and shapes variation

AUDIO



- interaction between the **coder** and the **audience**
- live coding done with **TidalCycles**
- every color controls a different predefined parameter

FLOWCHART



FUTURE IMPROVEMENTS

—
implementation of
an **evolutionary
system** to
generate novel
and unexpected
audio and video
features

—
giving the audience
more parameters to
play with

—
auto execution: the
users' interaction can
also automatically
execute some code
snippets

—
make the **visual**
more responsive to
the audio

LIVE DEMO



```
(def move-me
  (->
   ((gen-ps (:id pink-squares)) hept)
   (style {:transform-origin "center" :transform "scale(1.4)"})
   (anim "woosh-2" "3s" "infinite")
   (poly)
   (atom)))

(def move-me-2
  (->
   ((gen-ps (:id pink-squares)) hept)
   (style {:transform-origin "center" :transform "scale(1.4)"})
   (anim "woosh" "2s" "infinite")
   (poly)
   (atom)))

(def move-me-3
  (->
   ((gen-ps (:id pink-squares)) hept)
   (gen-sc
    (style {:transform-origin "center" :transform "scale(1.4)"})
    (gen-ss
     (shape)
     (n-shape)
     (n-ns)

(list ge offset-line:
      GE RATORS
(let [h (se ings :height)]
```