

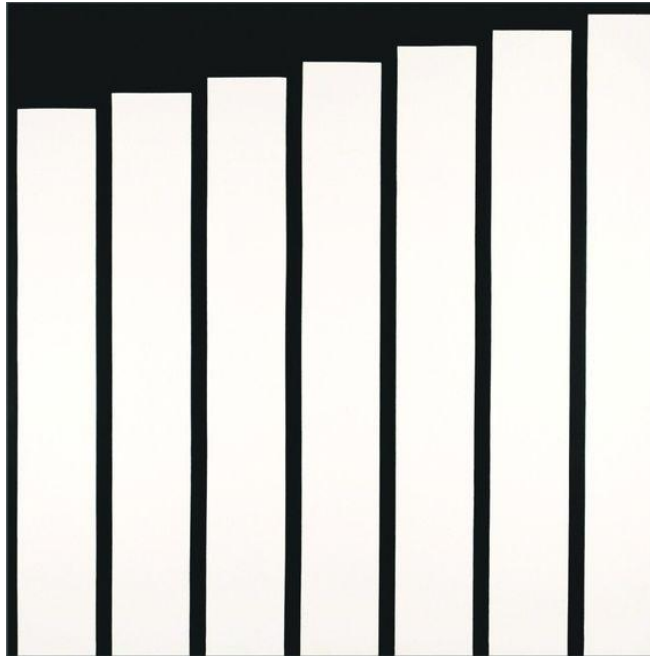
Clojure Art



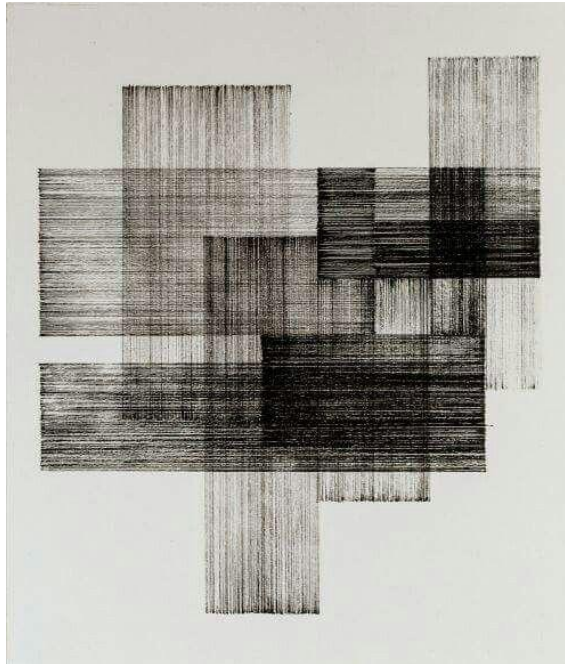
Kindergarten for adults!

Drawing Art - Examples of what we will be drawing

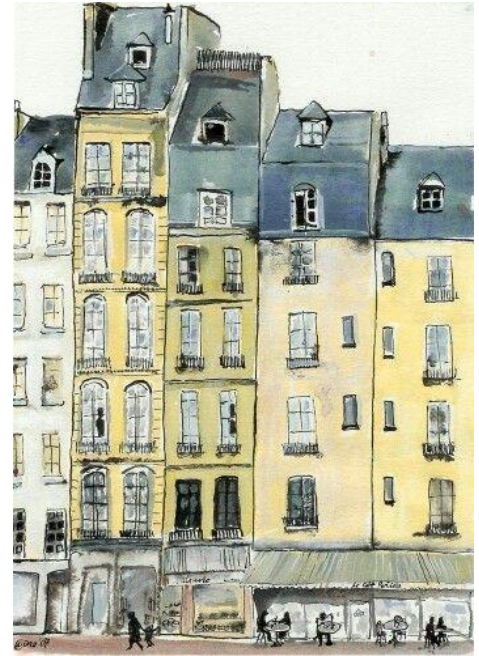
More art here: <https://www.pinterest.com/ccalato/clojurebridge/>



Verticals by Carmen Herrera

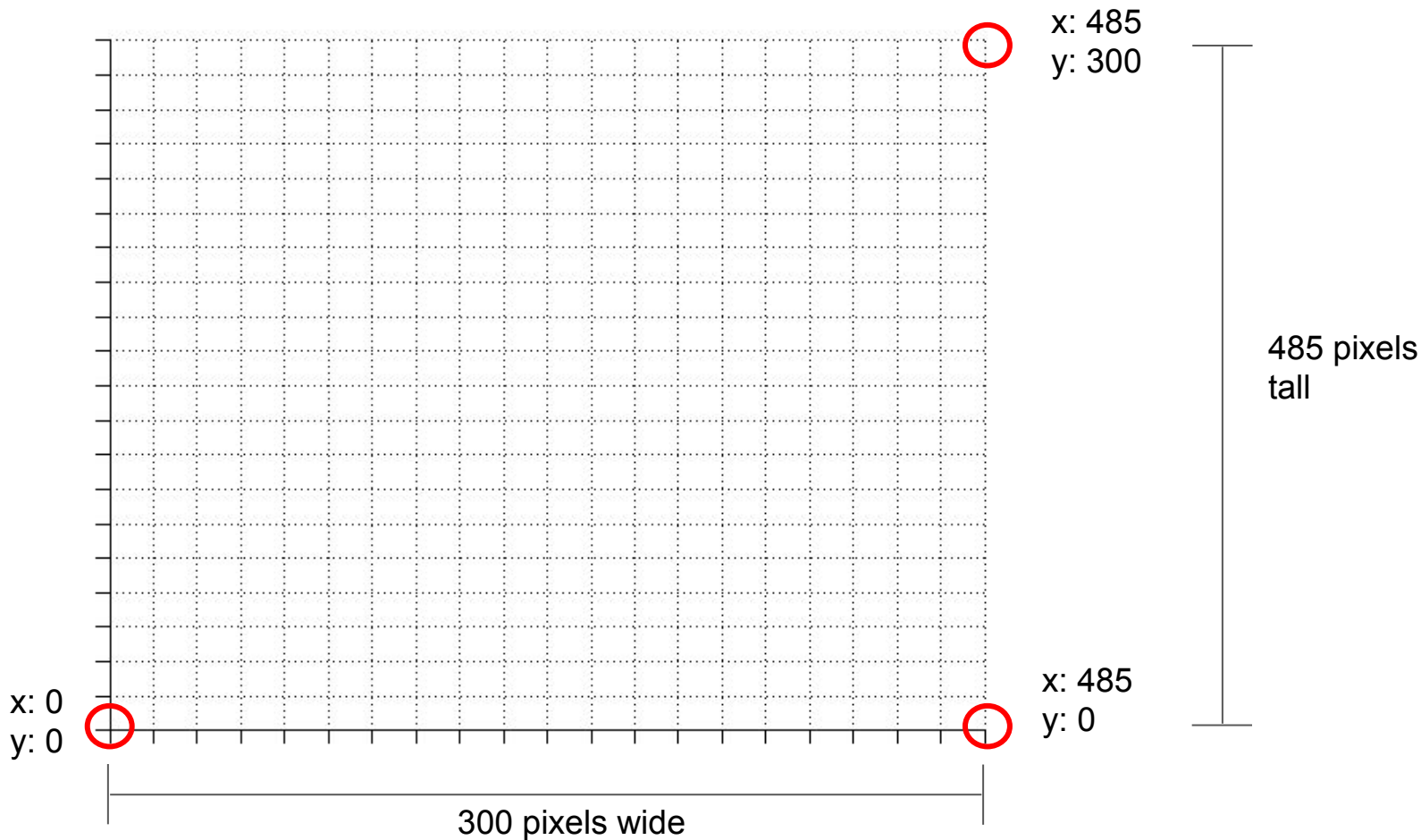


Tassia Bianchini



A Bit of Paris by (can't read the signature)

Some basics on the default 'canvas'



Let's modify some core source code!

- Open up src/clojurebridge_turtle/core.clj
- Find this function:

```
(defn create-turtle-panel []  
  (when-not @panel-exists?  
    (q/defsketch clojurebridge-turtle  
      :title "Walk your turtles!"           ;; Set the title of the sketch  
      :setup setup                          ;; Specify the setup fn  
      :draw draw                            ;; Specify the draw fn  
      :on-close #(reset! panel-exists? false) ;; Called when window is closed  
      :features [:keep-on-top]              ;; Keep the window on top  
      :size [485 300]))                    ;; You struggle to beat the golden ratio
```

Size of the canvas

x=485, y=300

Note: If you get stuck, code samples here:

https://github.com/clojurebridge-nyc/syllabus-nyc-2017/tree/master/slides/beginner/day2/code_samples

Modify it to look like this:

;; Add these 2 lines

```
(def CANVAS-WIDTH 485)  
(def CANVAS-HEIGHT 300)
```



```
(defn create-turtle-panel []  
  (when-not @panel-exists?  
    (q/defsketch clojurebridge-turtle  
      :title "Walk your turtles!"           ;; Set the title of the sketch  
      :setup setup                          ;; Specify the setup fn  
      :draw draw                            ;; Specify the draw fn  
      :on-close #(reset! panel-exists? false) ;; Called when window is closed  
      :features [:keep-on-top]              ;; Keep the window on top  
      :size [CANVAS-WIDTH CANVAS-HEIGHT])) ;; You struggle to beat the golden
```

ratio



Usage

```
;; set the turtle location to the bottom left corner  
(set-location 0 0)
```

```
;; set the turtle location to the middle of the canvas  
(set-location 242 150)
```

```
;; also sets the turtle location to the middle of the canvas  
(set-location  
  (/ CANVAS-WIDTH 2)  
  (/ CANVAS-HEIGHT 2))
```

```
;; sets a specific turtle (:trinity) to x=10, y=20  
(set-location :trinity 10 20)
```

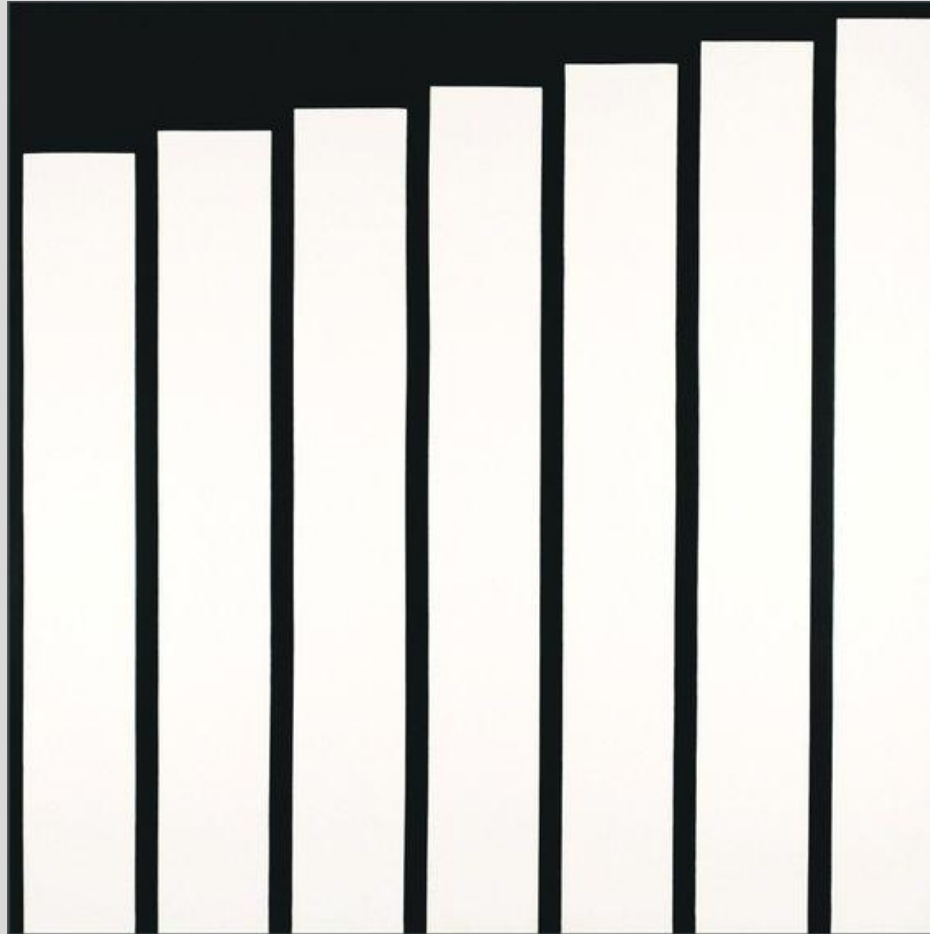
Art part 1:

Task:

- Draw this piece of art using Turtles

Things to consider:

- Simplify!
- Start small
- Build on each step



Verticals by Carmen Herrera

Discussion: Building blocks of art

Shapes:

- Lines
- Squares
- Triangles
- Circles

Technical challenges:

- How to fill them in?
- How to tilt them?
- What order to draw them in?

Code review Part 1

1-3 volunteers:

- Show off your work!
- How did you accomplish it?
- What was difficult?
- What was easy?
- How easy is it to change it?
- What could be improved?

NO EGOS!!!!