

# Using sketch

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```
knitr::opts_chunk$set(echo = TRUE)
knitr::knit_engines$set(sketch = sketch::eng_sketch)
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.2      v readr      2.1.4
v forcats    1.0.0      v stringr    1.5.0
v ggplot2    3.4.3      v tibble     3.2.1
v lubridate  1.9.2      v tidyr      1.3.0
v purrr      1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
library(sketch)
```

Attaching package: 'sketch'

The following object is masked from 'package:dplyr':

src

The following object is masked from 'package:base':

local

```
#devtools::install_github("seankross/p5")
library(p5)
```

Attaching package: 'p5'

The following object is masked from 'package:dplyr':

between

The following object is masked from 'package:tidyr':

fill

The following object is masked from 'package:stats':

line

The following object is masked from 'package:graphics':

rect

## Introduction

Trying to replicate this: <https://kcf-jackson.github.io/sketch-website/docs/>

```
print("'sketch' has its own knitr engine from version 1.0.5!")
```

```
sketch::insert_sketch(
  file = "./Using_sketch/main.R", id = "sketch_1",
  width = 500, height = 400
)
```

```
sketch::insert_sketch(
  file = "./Using_sketch/dots.R", id = "sketch_2", deparsers = default_2_deparsers(),
  width = 800, height = 600
)
```

```
sketch::insert_sketch(  
  file = "./Using_sketch/animated_dots.R", id = "sketch_2",  
  deparsers = default_2_deparsers(),  
  width = 800, height = 600  
)
```

```
p5::p5() |>  
  createCanvas(800, 600) |>  
  background("#F4F8FC") |>  
  fill("yellow") |>  
  ellipse(~mouseX, ~mouseY, 30, 30)
```



```

stripes <- tibble(
  x = rep(0, 7),
  y = cumsum(c(0, rep(30, 6))),
  w = rep(300, 7),
  h = rep(15, 7)
)
stripes

```

```

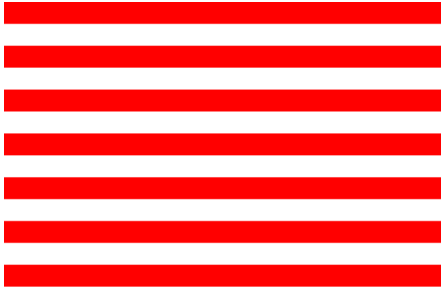
# A tibble: 7 x 4
      x     y     w     h
  <dbl> <dbl> <dbl> <dbl>
1     0     0   300    15
2     0    30   300    15
3     0    60   300    15
4     0    90   300    15
5     0   120   300    15
6     0   150   300    15
7     0   180   300    15

```

```

stripes %>%
  p5() %>%
  createCanvas(300, 200) %>%
  fill("#FF0000") %>%
  noStroke() %>%
  rect()

```



```
#!/ load_script(src = "https://cdnjs.cloudflare.com/ajax/libs/p5.js/0.9.0/p5.js")
setup <- function() {
  createCanvas(400, 300)
}

draw <- function() {
  background(0, 0, 33)    # RGB colors

  for (i in 1:3) {
    dia <- sin(frameCount * 0.025) * 30 * i
    fill(255, 70 * i, 0)   # RGB colors
    circle(100 * i, 150, dia) # (x, y, diameter)
  }
}
```