

uni/bivariate distribution  
**across** categories (hue)

### hist(x [hue])

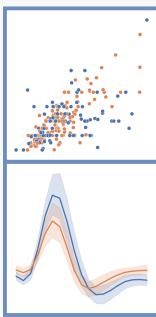
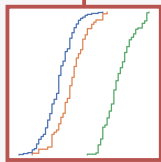
- element = 'step'
- multiple = 'stack'
- multiple = 'dodge'
- kde = True

### hist(x y [hue])

- binwidth
- bins = int | list
- discrete = True  
(for when x are ints)
- cbar = True (colorbar)
- stat = 'probability'  
(normalize each cat to sum 1)

### ecdf(x [y hue])

(zero-config empirical cumulative dist plot)

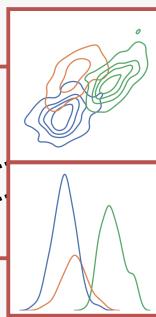


### kde(x y [hue])

- thresh = 0..1
- levels = int | list

### kde(x [hue])

- bw\_adjust = 0..1
- cut = 0 | int .....  
(truncate extremes)
- fill = True



### scatter(x y [hue, size, style])

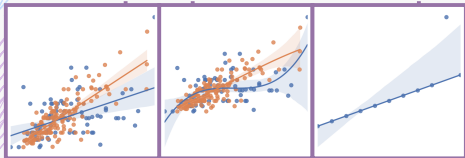
- edgecolor
- (highlight each point with)

### line(x y [hue size style])

- estimator = np.mean | fn | None | \*
- ci = 0..100 (plot confidence level)
- ci = 'sd' (plot std deviation)

### reg(x y)

- lm(x y [hue]) (fig level plot)
- logistic = True (for when y are 0/1)
- robust = True (discard outliers)
- lowess = True (non-polynomial fit)
- {scatter,line}\_kws
- order = int (polynomial of order n)



distribution **of each**  
categories (x or y)

### violin(x y [hue])

- bw = 0..1
- cut = int
- split = True (2 hue cats)
- inner = 'quartile' | 'point'  
'box' | None

### boxen(x y [hue])

(multiple quartiles / boxes, see k\_depth)

### box(x y [hue])

(multiple quartiles / boxes, see k\_depth)

### swarm(x y [hue])

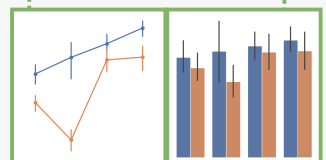
### strip(x y [hue])

- dodge = False

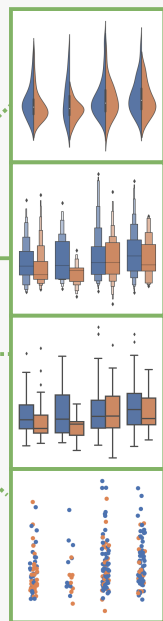
### bar(x [y hue])

### point(x [y hue])

- style = \* (but not a col)



**single statistical estimation** of each categories (x or y)



## seaborn cheat sheet

made with love by  
**Martin Di Paola**  
for seaborn v0.11.1  
<https://book-of-gehn.github.io>

### relationship

between two or more variables

### regression

model between two variables