2022/1/28 Lac O 3
Data Viz MD Ch 2
Def: Grammar of Graphics
If is a theoretical definition of a graphic

A statical graphic is a mapping of data variables to aesthetic attributes of geometric objects.
Ex: Tor date et

| $A$ | $B$ | $C$ | $D$ |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 1 | $h_{0}$ |
| 2 | 4 | $y^{\prime 2} \alpha<3$ | $h o t$ |
| 3 | 3 | 0 | cold |
| 4 | 1 | 3 | cold |

To do:
(1) Draw a scatterpof woth A mapral to $x$-axis position, \& $B$ mppel to $y$-axis position
(2) Sare as (1) bat uth $C$ mappil to
(3) Save as (1) \& (1), but with $D$ mapral to colo $r$.
Ansuers


(3)


Moral: We are cisuatierz 4 vaniables on a $2 D$ page
Code: To create vir \#(i) using the ggplota $R$ package (Fion dif viz. gronour of sraphics

$$
\begin{aligned}
& \text { library (ggrot 2) } \\
& \text { 99plst (data }=\text { Toy, }
\end{aligned}
$$



Nole: What's in red bue is in red in gramnom of grastics detiaition.

