

Welcome to STAT 2

Wednesday, 4 September 2019

What did you do this summer?

Also: your name, year, major.

Lab Format

- My assigned duty is to **answer your questions**
 - About the worksheet
 - About any readings
 - About the concepts in general
- Since you do not have homework, these labs are going to be pivotal to your understanding this semester



Lab Format

Here is what we're assigned to do

1. We walk up the hill to Evans
2. Drink some water
3. Do our worksheets and support one another's learning



Policies

- I will do my 100% to respect you; please do the same for each other and for myself
- You're not supposed to leave lab early; please talk to me if you intend on doing so
- You can miss up to 4 labs without an excuse
- Please make sure I record your attendance



Attendance

- Every lab section, we will take attendance
 - This is 20% of your grade (sounds like an OK deal to me)
 - Today's attendance will be different, please send me an email containing... wait for the next slide...

Attendance

- Send an email to espejo@berkeley.edu containing either Option A or Option B.
- Let the subject line be STAT 2 - LAB 107/108 attendance.
- Option A
 - Your full name (and preferred name if you use one)
 - Your year
 - Your major (and if you'd like, why you chose it)
 - Any fears/excitements you have over taking this class (I will keep this between you and me)
 - Anything else you'd like me to know
- Option B
 - Your full name

For real, why statistics?

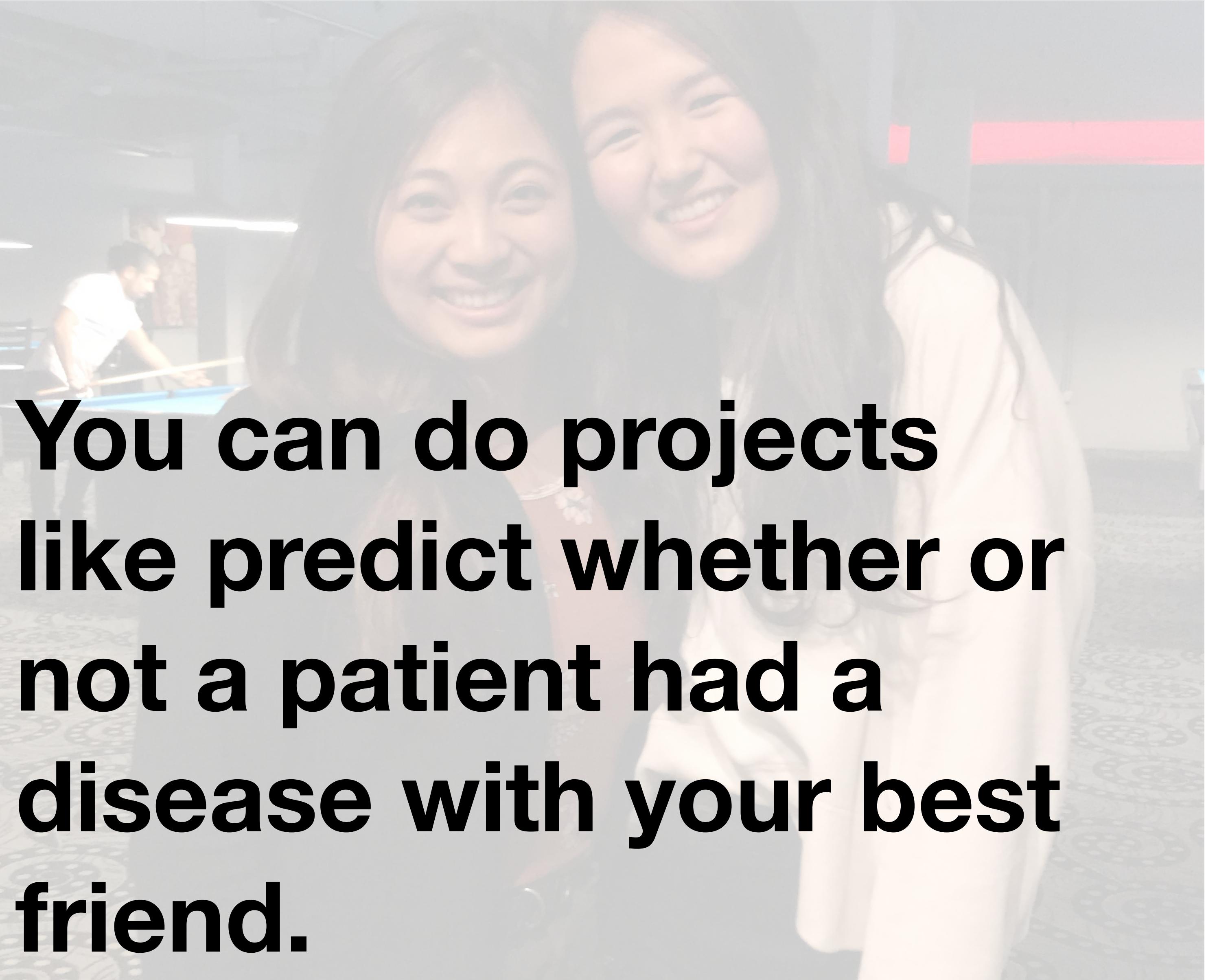




**Statistics is used by a
lot of different people.
You get to be friends
with all of them.**







You can do projects
like predict whether or
not a patient had a
disease with your best
friend.





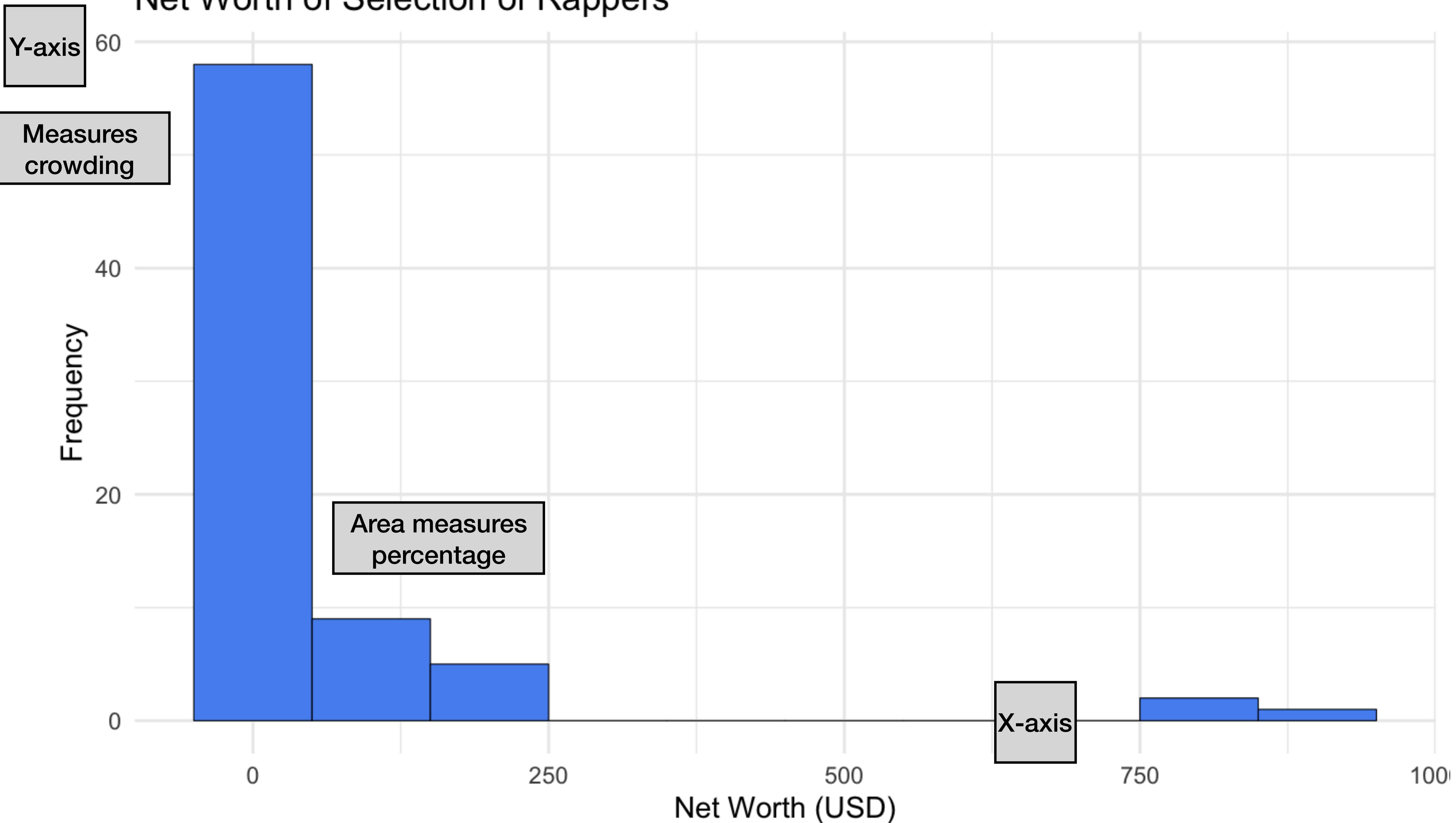


And you get kick ass
lady mentors at
awesome summer
internships.

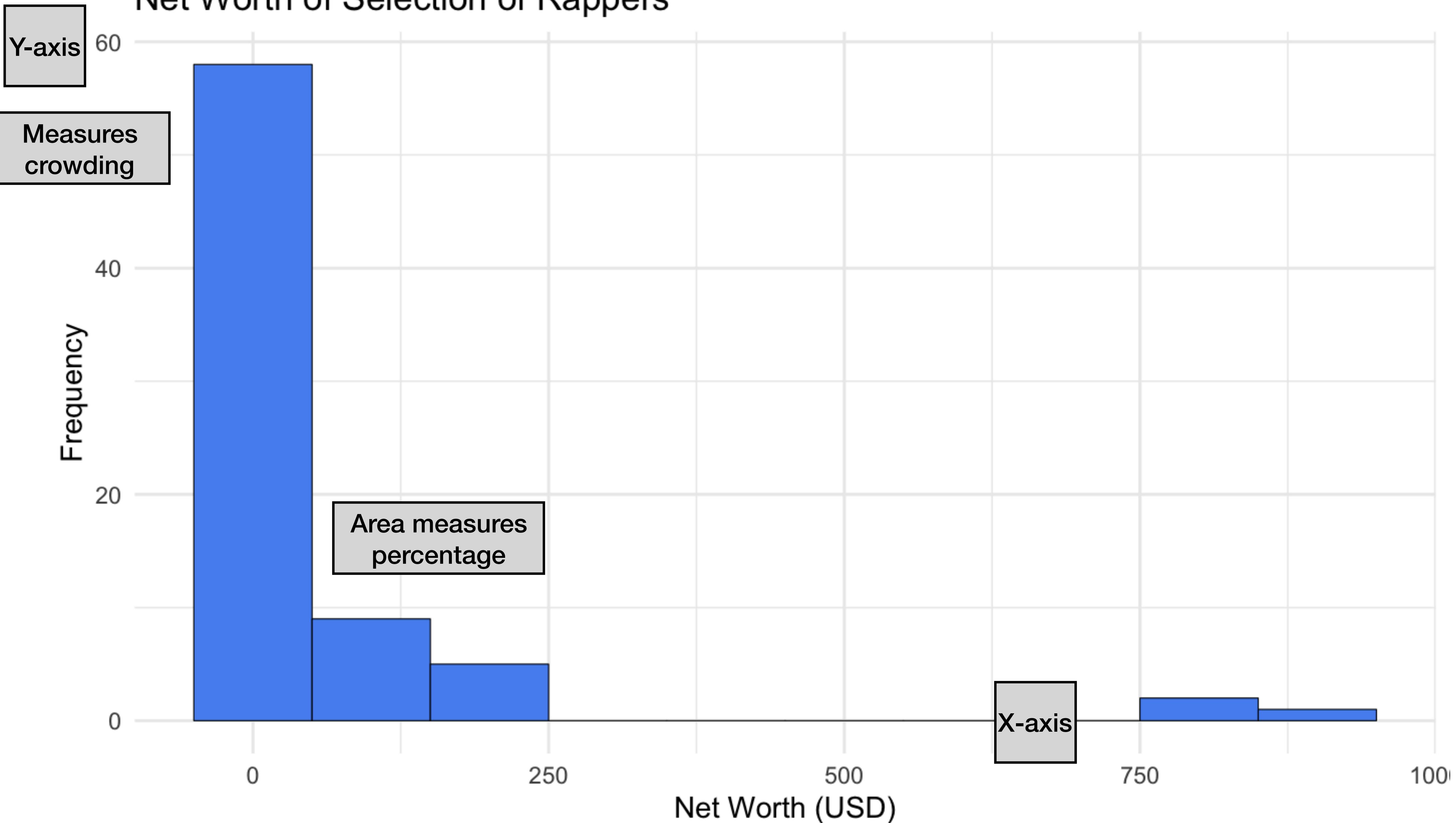


Histograms

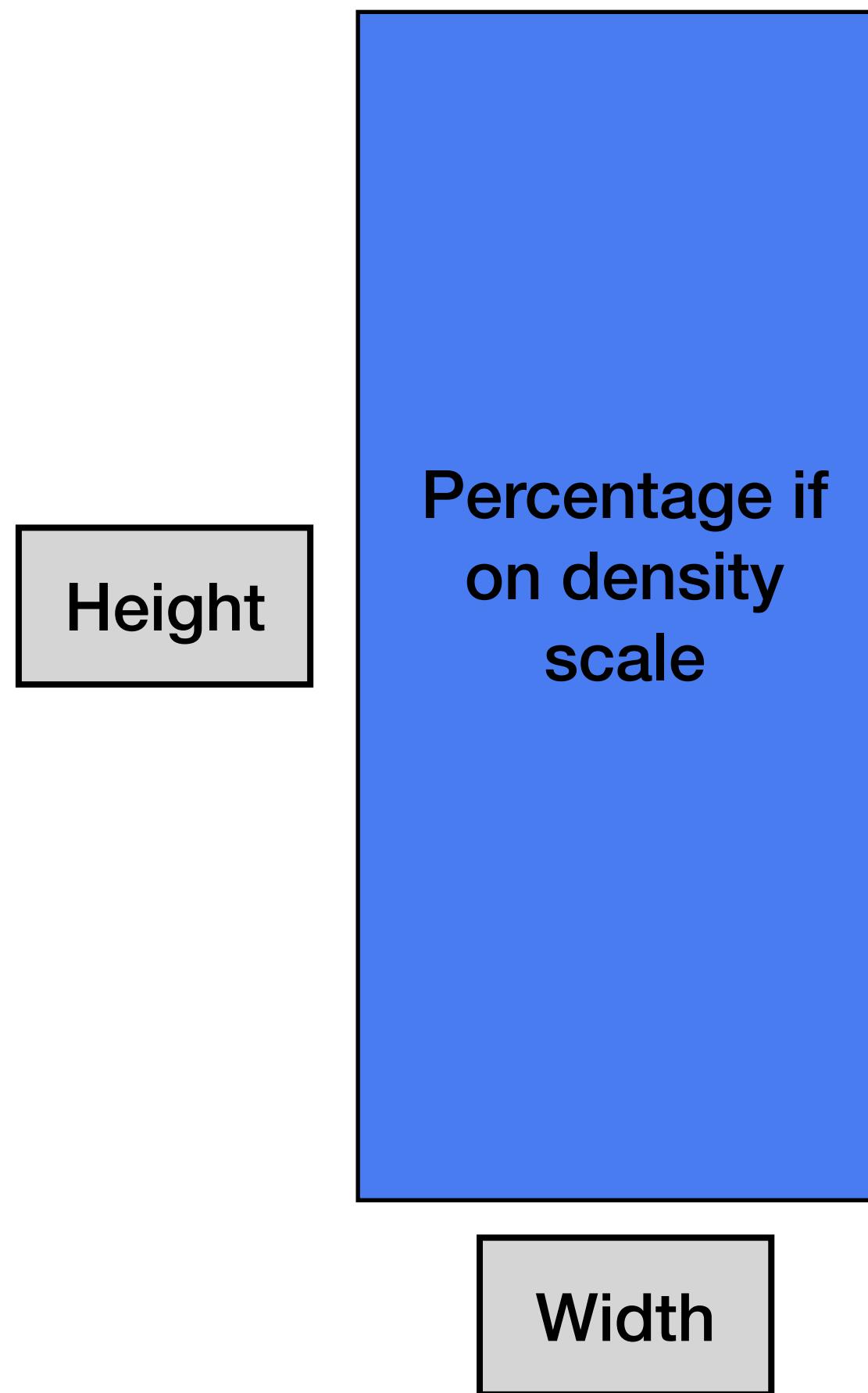
Net Worth of Selection of Rappers



Net Worth of Selection of Rappers



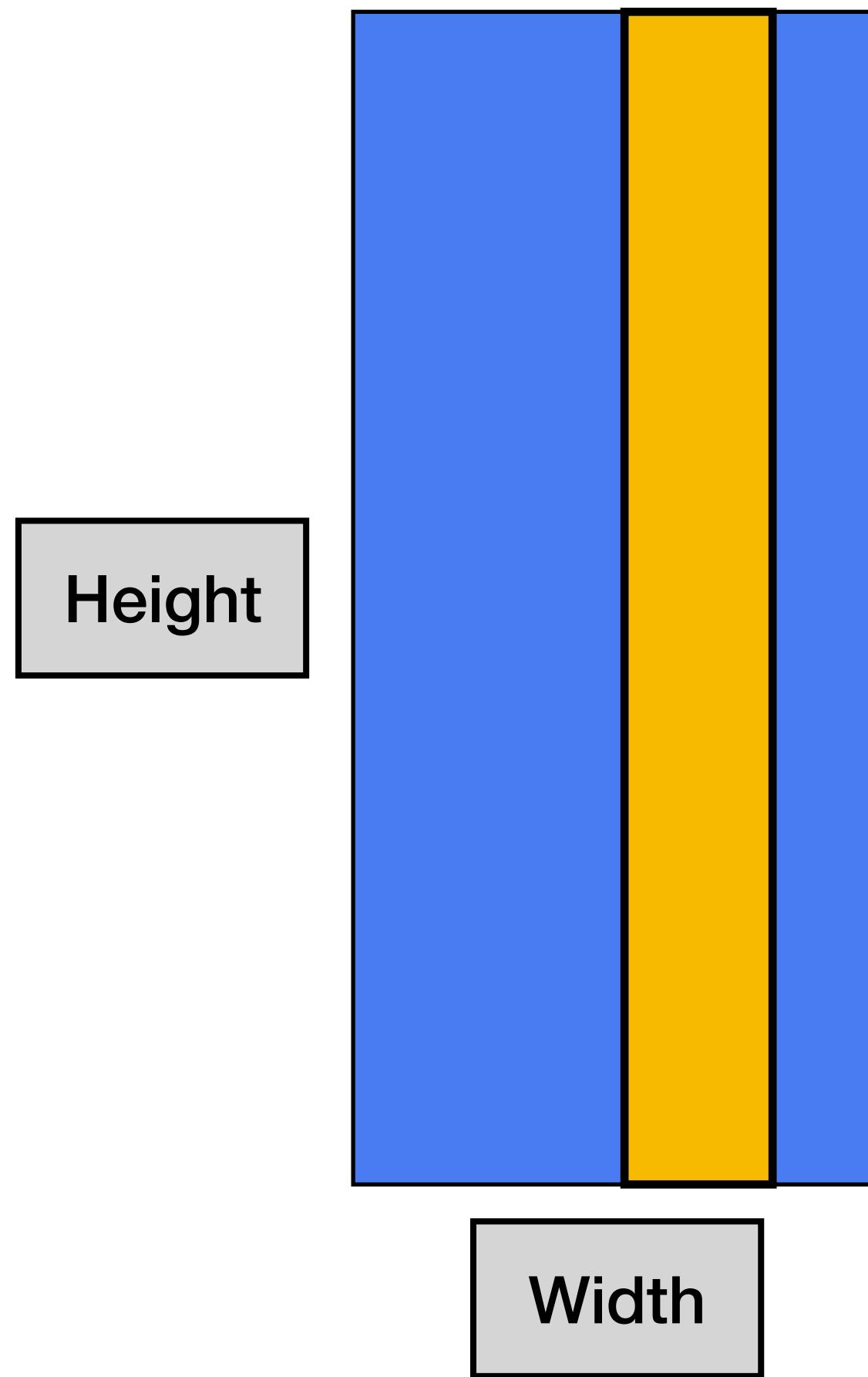
Lab 1 - Main Idea



- Histograms describe percentages using rectangles
- The **height** of a rectangle in a histogram corresponds to “crowding”
- The **width** of a rectangle in a histogram corresponds to a range of values
- If on a density scale, then
 - **Percentage = Height x Width**

Lab 1 - Hint

- To get the area of the yellow bar within the blue bar



- Option 1
 - Calculate the width of the yellow bar
 - Multiply it by the height
- Option 2
 - Figure out what fraction of the blue bar is the yellow bar (what percent of the blue bar is yellow)
 - Multiply that fraction by the full area