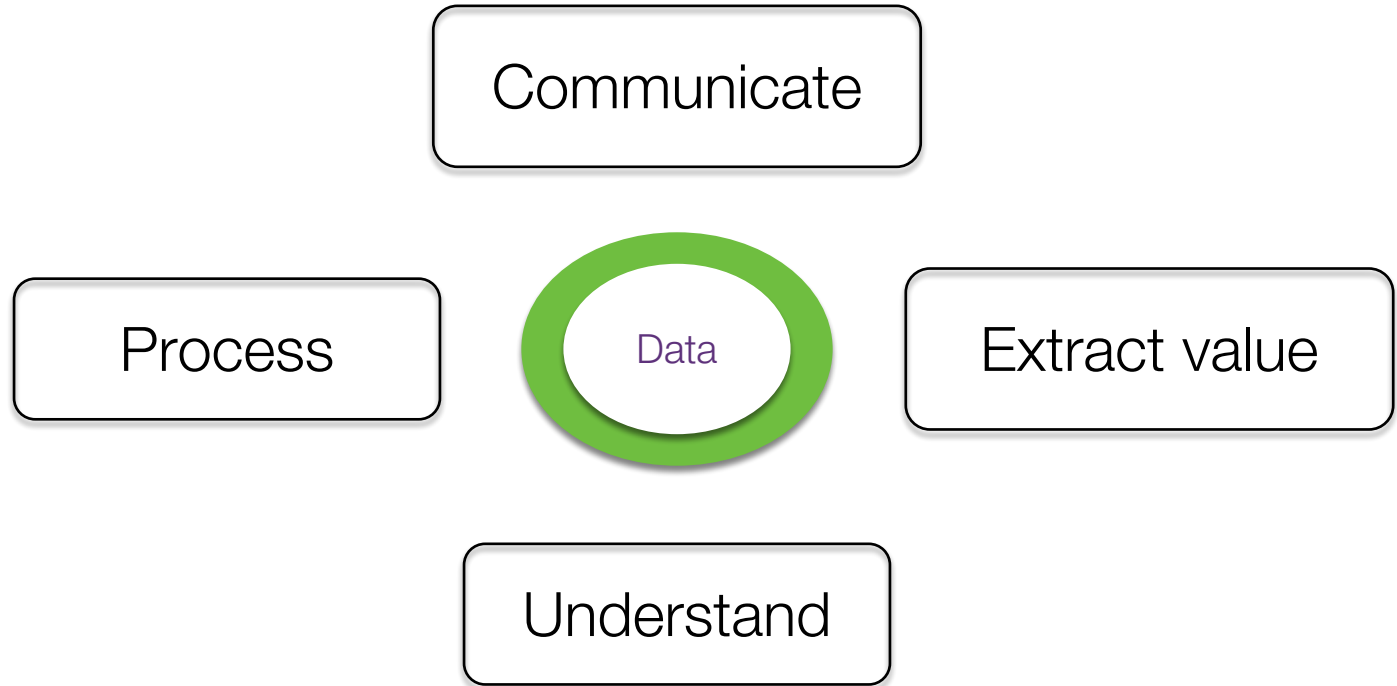


Why data analytics

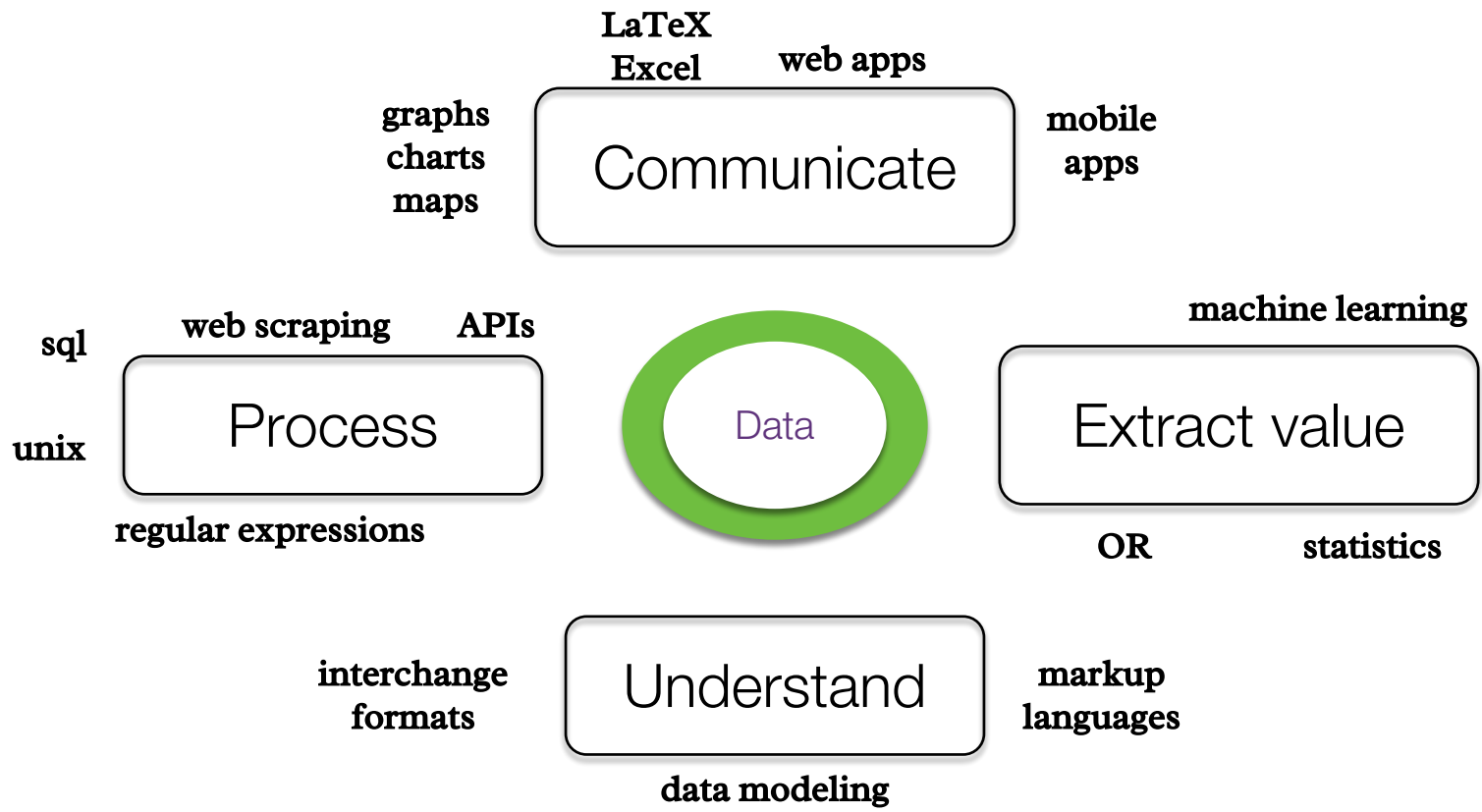
Centrality of data

The ability to take data - to be able to **understand** it, to **process** it, to **extract value** from it, to **visualize** it, to **communicate** it is going to be a hugely important skill in the next decades, not only at the professional level but even at the educational level for elementary school kids, for high school kids, for college kids. Because now we really do have essentially **free and ubiquitous data**. So the complimentary scarce factor is the ability to understand that data and extract value from it.

–Hal Varian (*chief economist, Google*)



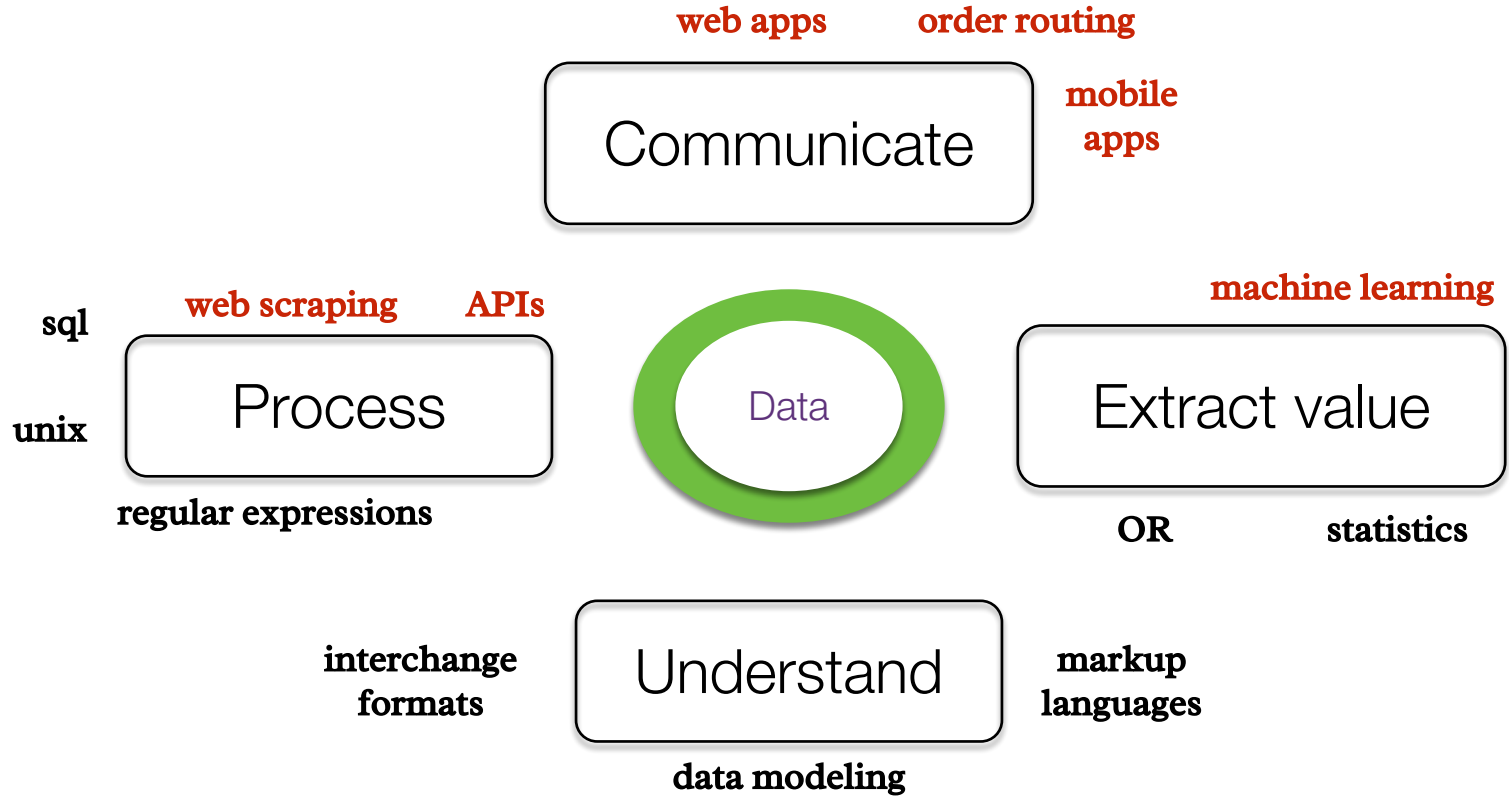
Programming is the interface between data and
everything else



Data can be dead or alive

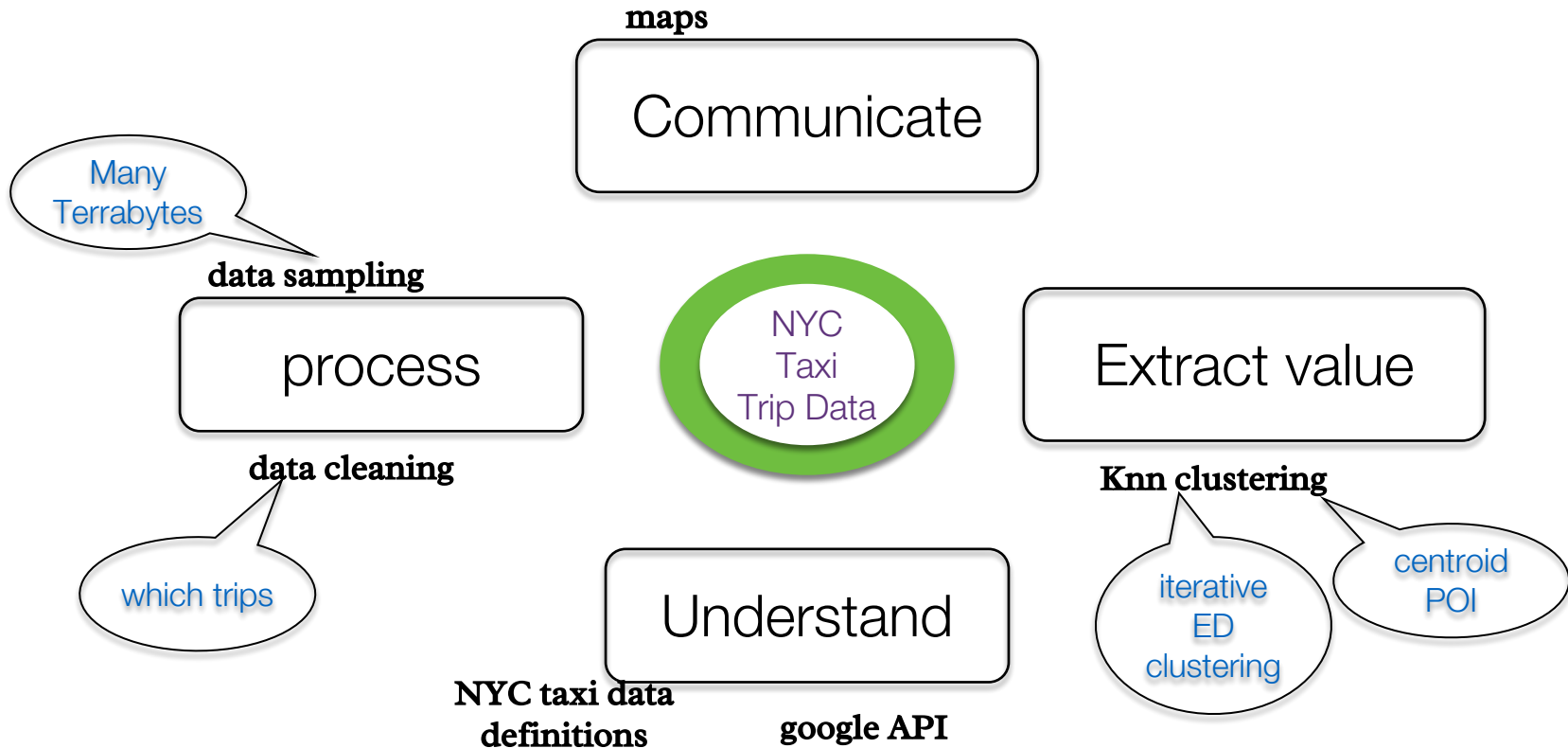
High frequency market makers

- track news stories
- do sentiment analysis
- learn/re-learn cross correlations
- update markets in real time



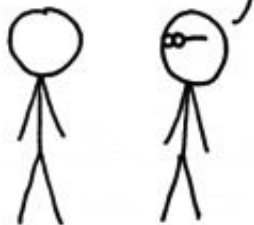
Bankers Travel Patterns

Where does a banker live?
Where does he/she go after work?



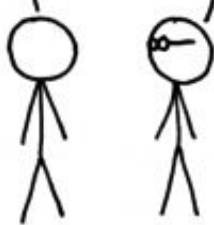
what you can bring to the
table

WE HAVE THIS AWESOME DATA
ON {INSERT MOUTH-WATERING
DESCRIPTION OF DATA}! WE
CLEANED IT UP AND WE'RE
RUNNING {SOPHISTICATED
ANALYSIS} ON IT. WE SEE
{STORY ABOUT FASCINATING
PATTERNS}. ISN'T THAT COOL?!



BOOYAH! THAT SOUNDS
LIKE SO MUCH FUN!
WHY ARE YOU DOING IT?

WE'RE NOT SURE YET, BUT
IMAGINE THE POSSIBILITIES!
THIS *HAS* TO BE VALUABLE!



FACEPALM



What you should expect

1. Lots of assignments
2. A data analysis project
3. A bunch of pop quizzes
4. Be prepared to present your results to everyone at the end of the semester

What I expect

1. Timely submission of assignments
 - -25% for submission in the week after the due date
 - -100% after that
2. Be in class on time
3. That you don't hesitate to ask questions (in class, of the TAs, during office hours, by email, on the discussion forums)

Think big! Have fun!