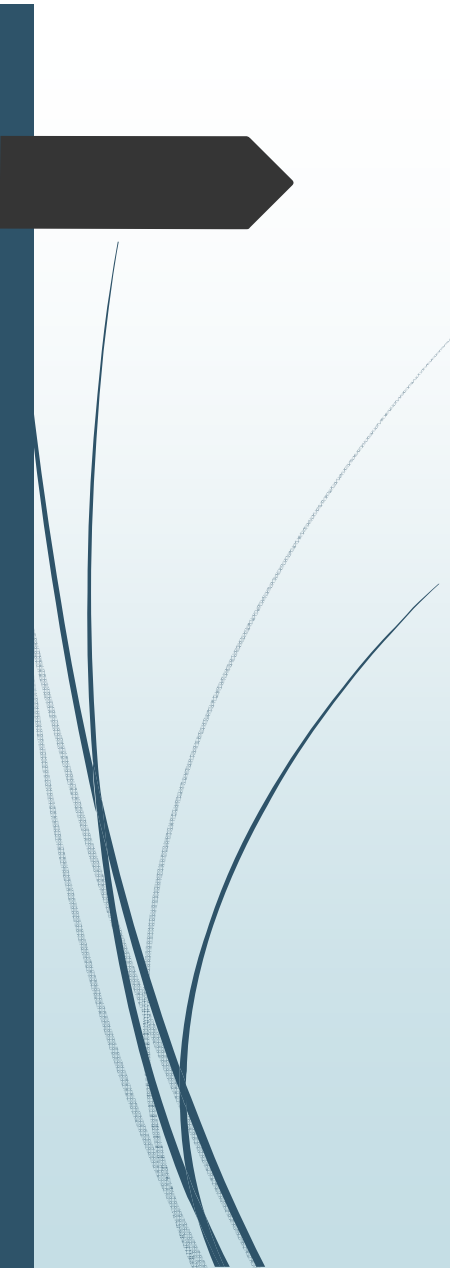




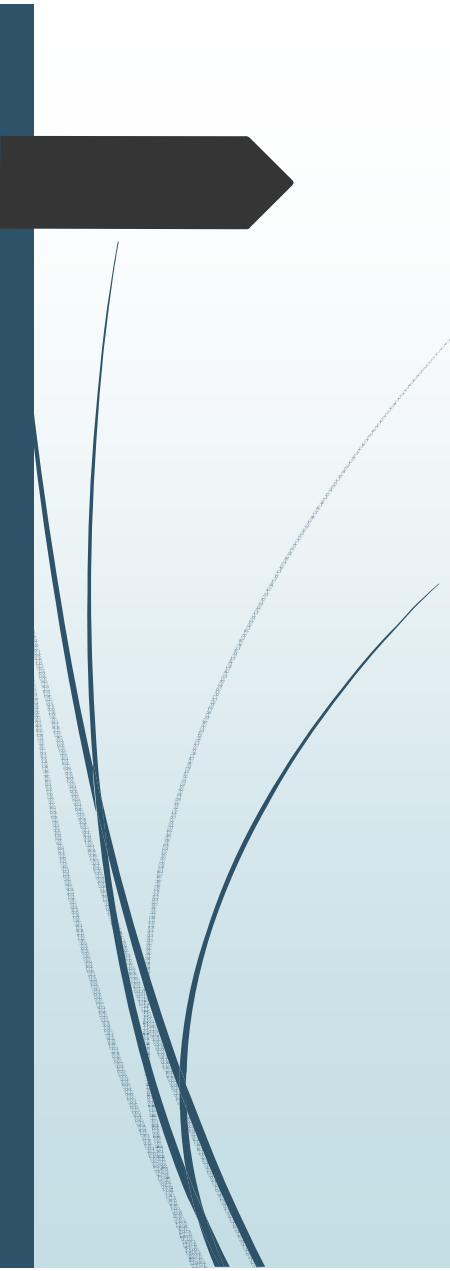
Data Science: What, where, when, why, how?

Monthien Satimanon



Why?

- The goal of data science is to improve decision making by basing decisions on insights extracted from large data sets.
- Kelleher, John D.. Data Science (MIT Press Essential Knowledge series) . The MIT Press. Kindle Edition.



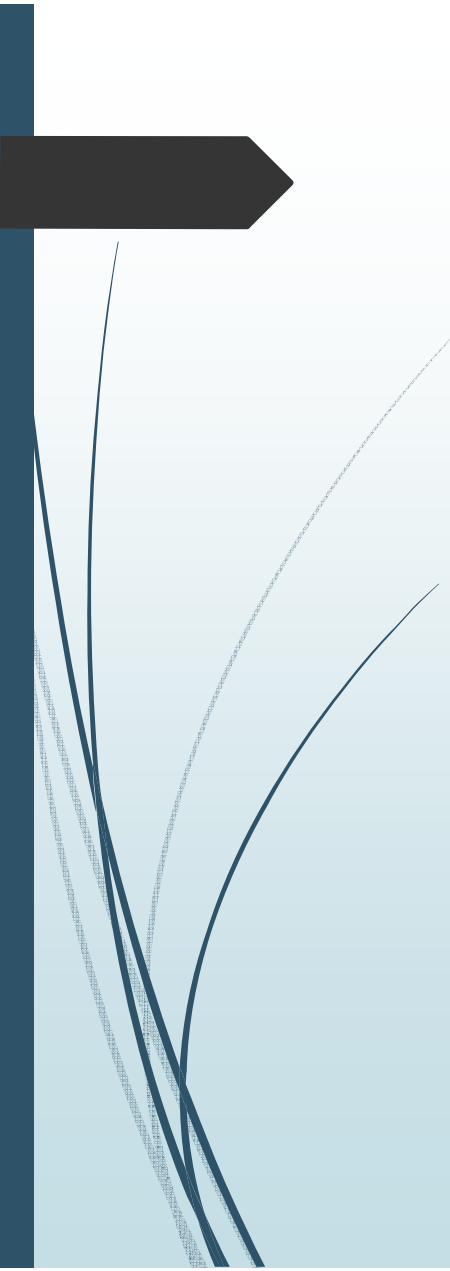
What?

- Data science encompasses a set of principles, problem definitions, algorithms, and processes for extracting nonobvious and useful patterns from large data sets. Many of the elements of data science have been developed in related fields such as machine learning and data mining.
- Kelleher, John D.. Data Science (MIT Press Essential Knowledge series) (p. 1). The MIT Press. Kindle Edition.



Where and When

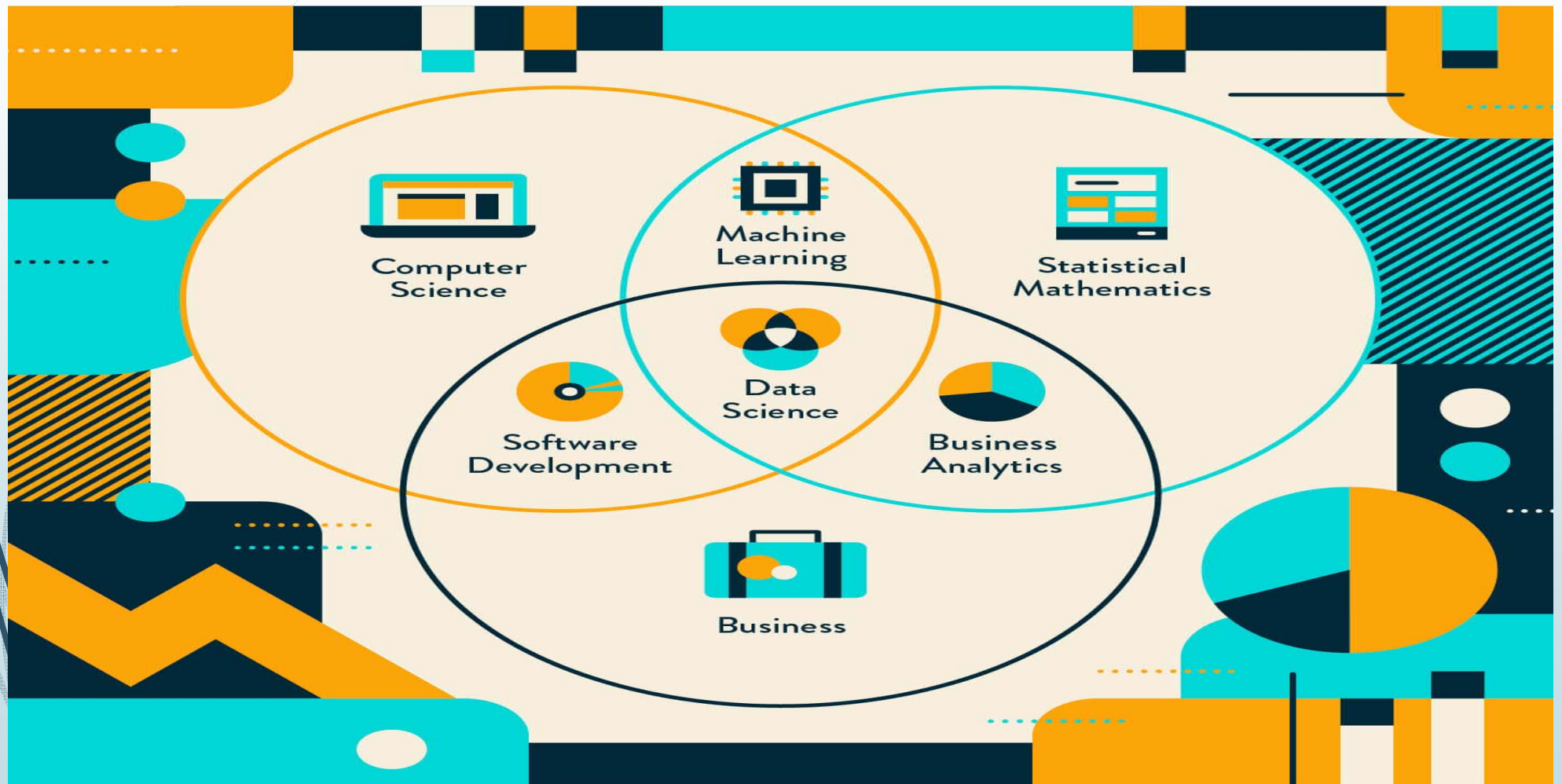
- Big Data is an all-inclusive term that refers to extremely large, very fast, highly diverse, and complex data that cannot be managed with traditional data management tools. Ideally, Big Data includes all kinds of data, and helps deliver the right information, to the right person, in the right quantity, at the right time, to help make the right decisions.
- Maheshwari, Anil. Big Data Made Accessible: 2019 edition . Kindle Edition.



How?

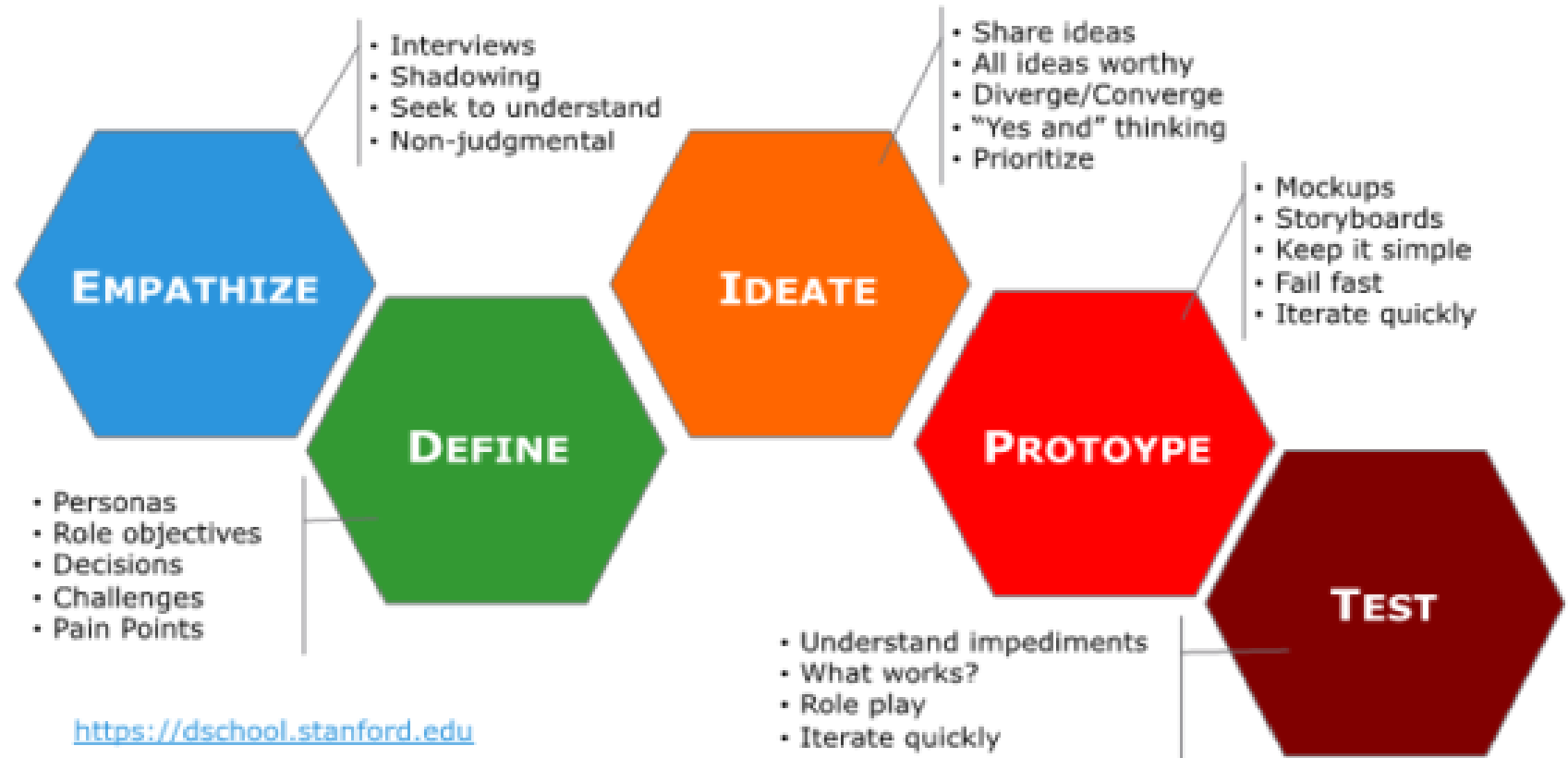
- There are four key steps in a data science study. First, the data must be processed and prepared for analysis. Next, suitable algorithms are shortlisted based on our study's requirements. Following which, parameters of the algorithms have to be tuned to optimize results. These finally culminate in the building of models that are then compared to select the best one.
- Ng, Annalyn. Numsense! Data Science for the Layman: No Math Added (p. 1). leanpub.com. Kindle Edition.

Venn Diagram



Design Thinking

Stanford d.school Design Thinking Process

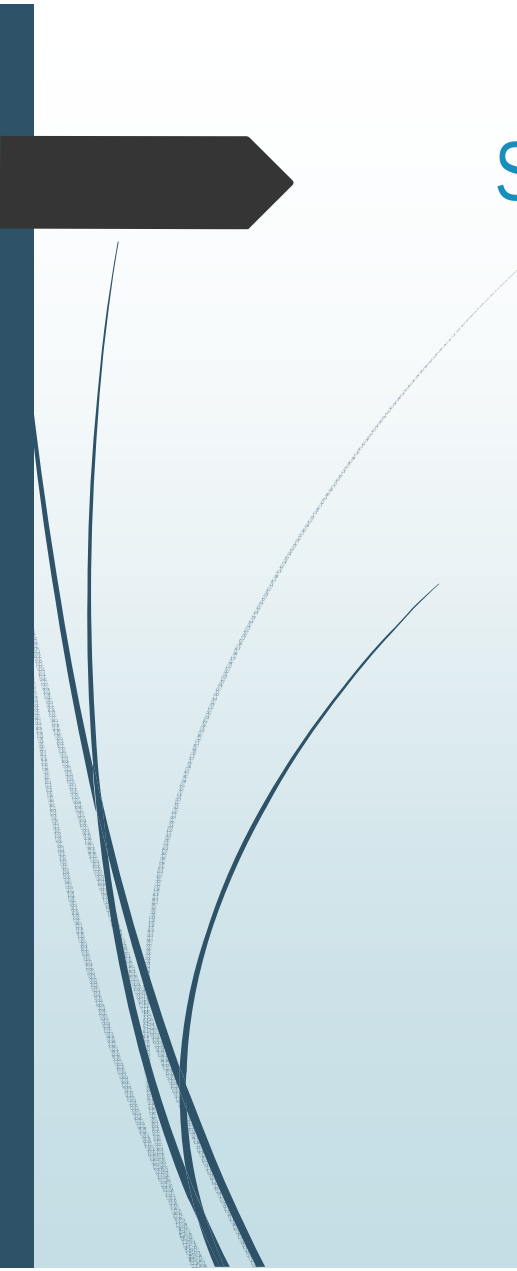


OKRs

What is OKR?

Back in the 1970s, Intel was among the most respected and admired companies in Silicon Valley. During that time Intel's CEO, Andy Grove, was the man who managed to drive organizational change. Andy Grove did that via a goal setting process called OKRs or objectives and key results. Where the objective is the direction, toward which the organization needs to be in the medium term. And the key results are milestones, things that allow the company to get there. Those key results need to be easily trackable, understandable and shared across the company.



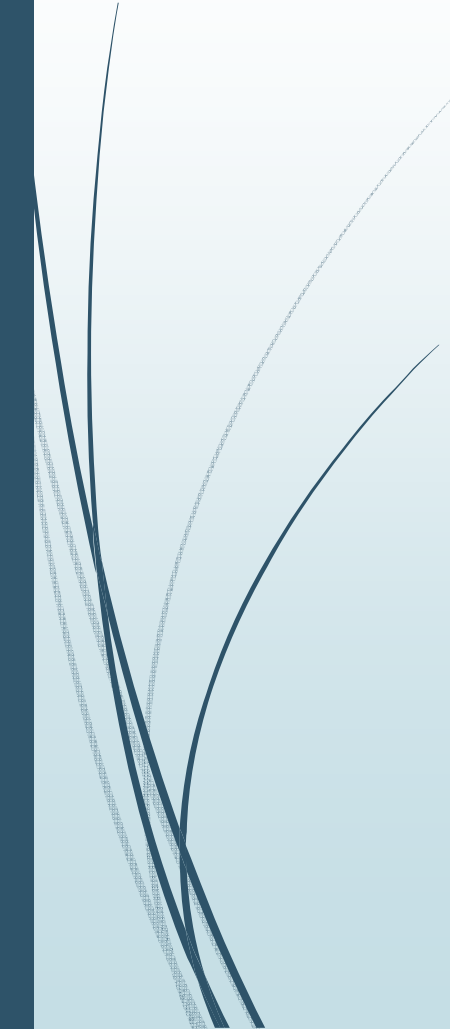


Skills for 21st century: Data Science

TIREE



T: Data Science: Data and Coding Skills

- 
- Data Literacy
 - Python
 - R
 - SQL
 - Stata
 - SAS
 - ETC.



I: Integrity

INTEGRITY IS
choosing
COURAGE OVER COMFORT;
CHOOSING WHAT IS RIGHT
over what is
FUN, FAST, OR EASY;
AND CHOOSING TO
PRACTICE OUR VALUES
rather than simply
PROFESSING THEM.

<https://chiubaka.com/philosophy/going-rogue-living-with-integrity/>



R: Resiliency

- Grit
- <https://www.todayonline.com/singapore/national-study-emotional-resilience-mental-health-youths-begin-april>
- mindset



E:

- Active Listening
- Shut your :
- <https://www.interaction-design.org/literature/article/stage-1-in-the-design-thinking-process-empathise-with-your-users>

E:

Low Emotional Intelligence

Aggressive
Demanding
Egotistical
Bossy
Confrontational



Easily Distracted
Glib
Selfish
Poor Listener
Impulsive



Resistant to Change
Passive
Un-Responsive
Slow
Stubborn



Critical
Picky
Fussy
Hard to Please
Perfectionistic



High Emotional Intelligence

Assertive
Ambitious
Driving
Strong-Willed
Decisive

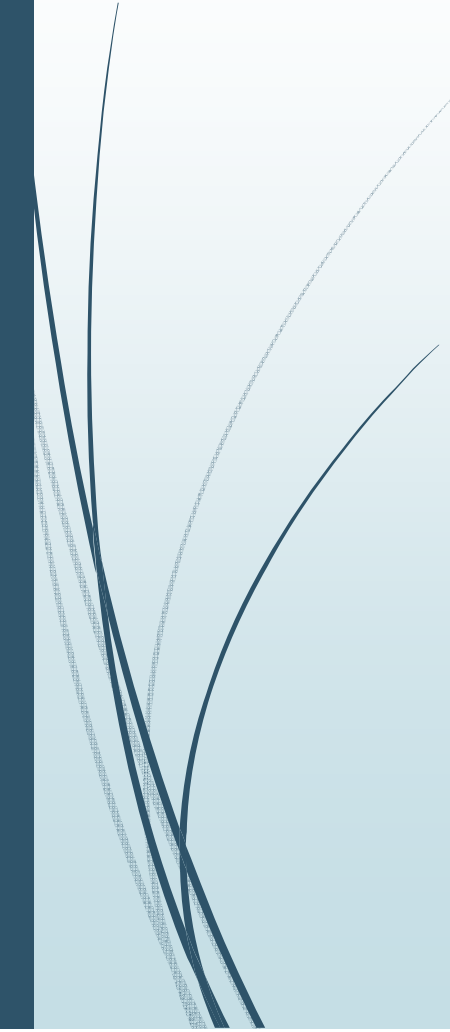
Warm
Enthusiastic
Sociable
Charming
Persuasive

Patient
Stable
Predictable
Consistent
Good Listener

Detailed
Careful
Meticulous
Systematic
Neat



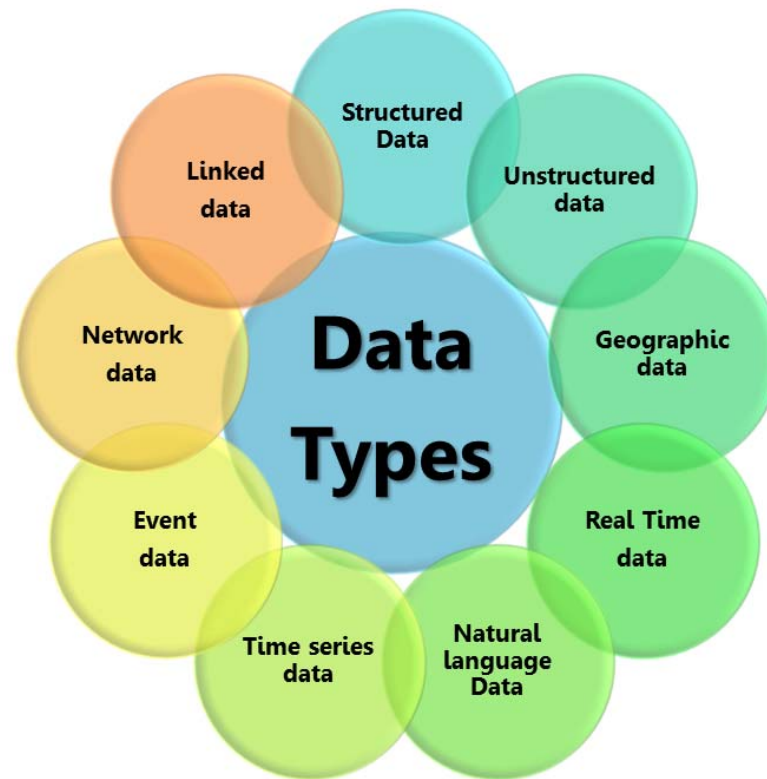
Data Literacy



➤ Fact

➤ Truth

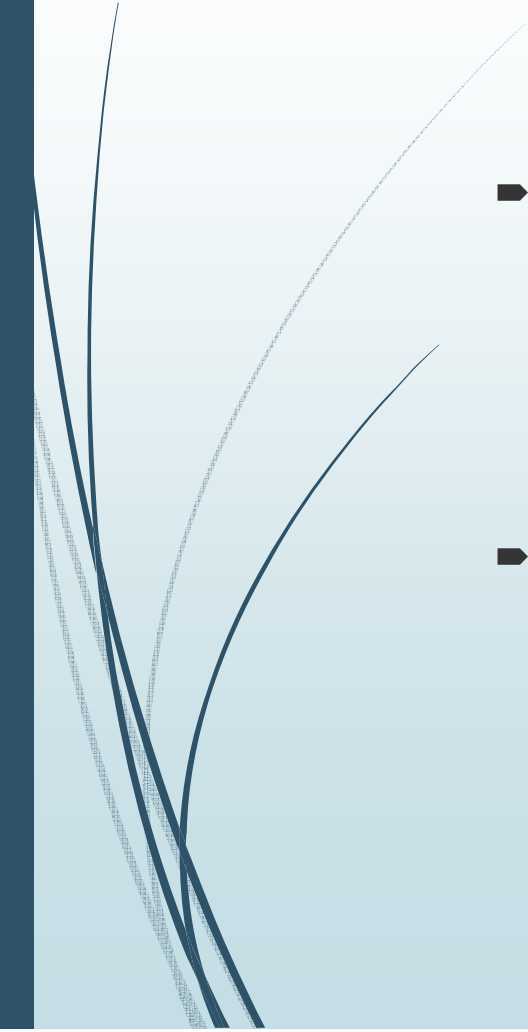
Data Types



<http://blog.agroknow.com/?p=4690>



Economics or Business Issues:



- Micro or Macro

- Please team up

How to set up your team?

**If you want to go fast, go alone.
If you want to go far, go together.**

— African Proverb



PositivelyRunning.com