

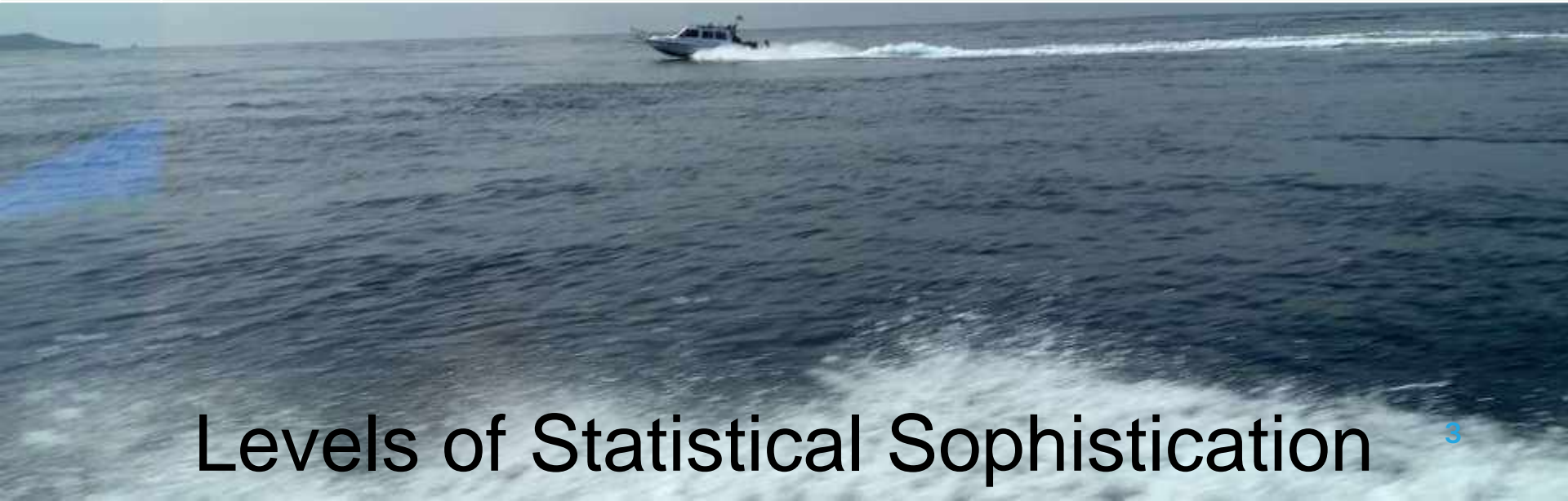
Regression Analysis



Do You able to Answer?

- Is there a relationship between salt intake and blood pressure?
- Is there a relationship between cigarette smoking and life expectancy?

Category	Description
I	those who understand statistical presentations
II	those who understand, select, and apply statistical procedures
III	applied statisticians who help others use statistics
IV	mathematical statisticians who are skilful in complicating & confusing others



Levels of Statistical Sophistication

Basic Concepts

REGRESSION

Regression analysis is a statistical technique used to describe relationships among variables

The simplest case to examine is one in which a variable Y , referred to as the **dependent** or **target variable**, may be related to one variable X , called an **independent** or **explanatory** variable, or simply a **regressor**

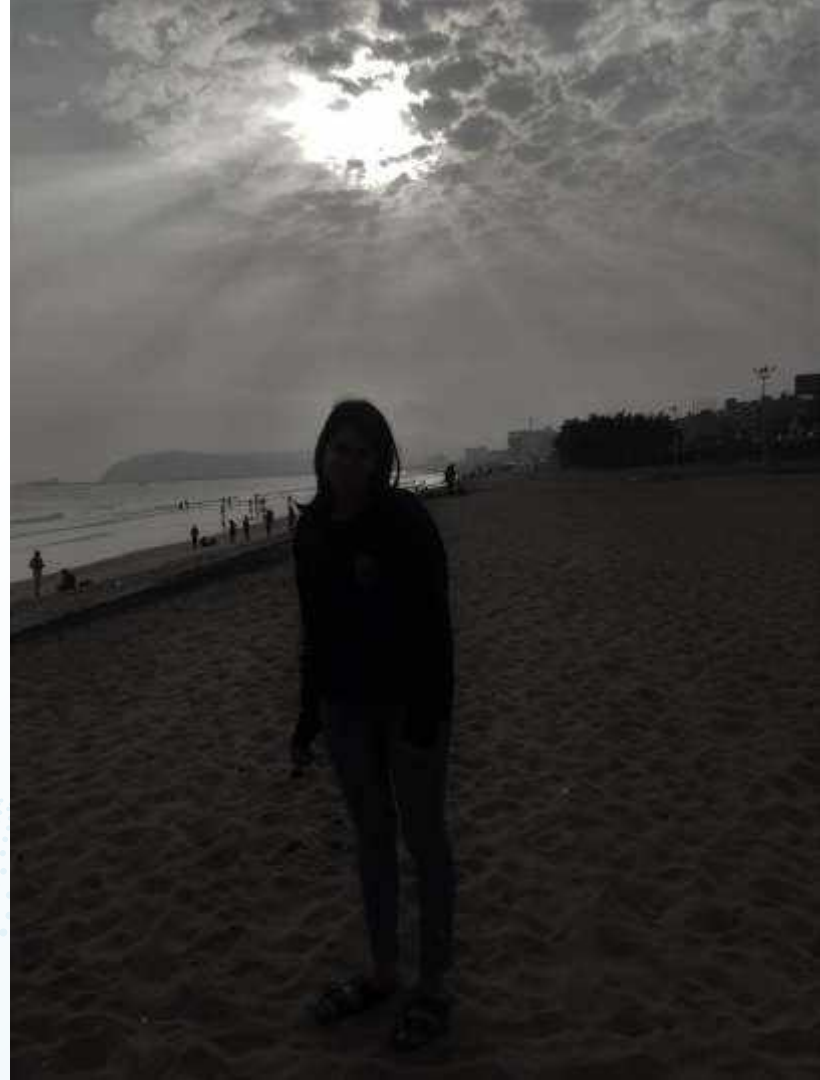
$$Y = \beta_1 + \beta_2 X$$

where β_1 is an intercept term and β_2 is a slope coefficient



Outline

- Basic Concepts
- Situations where Models are Used
- How to Use EXCEL
- Types of Regression

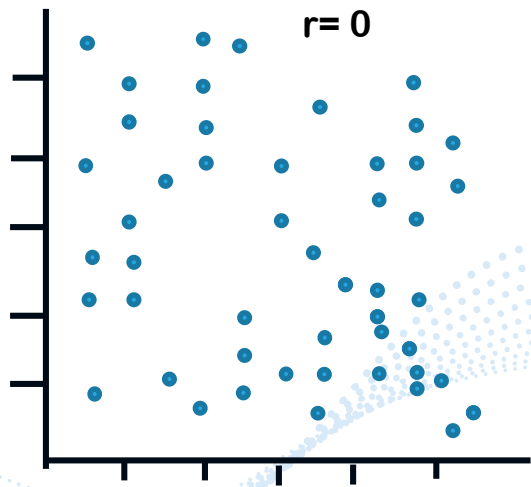


Basic Concepts

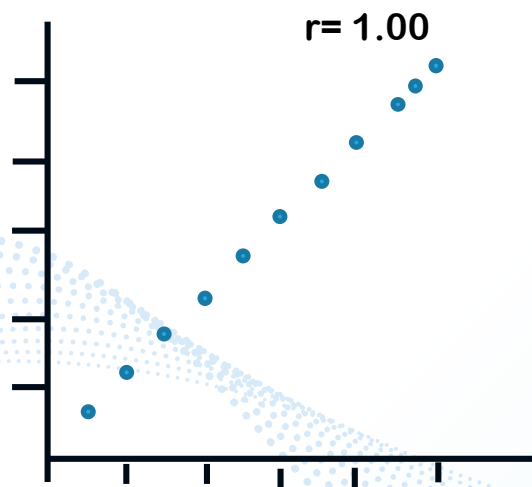
- **Variables: Response Vs Explanatory**
- Functional relationship
- **Objective: Predict the Response**

- **Variables: Same**
- Establish and quantify Relationship strength and direction
- **Objective: Association**



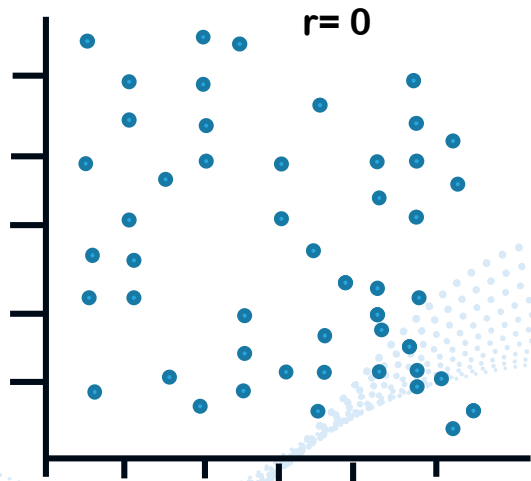


A

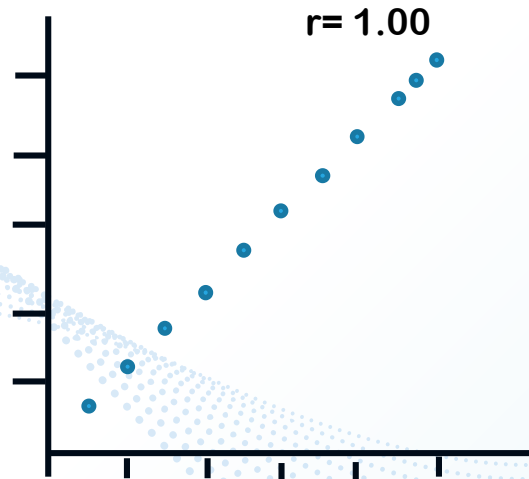


B



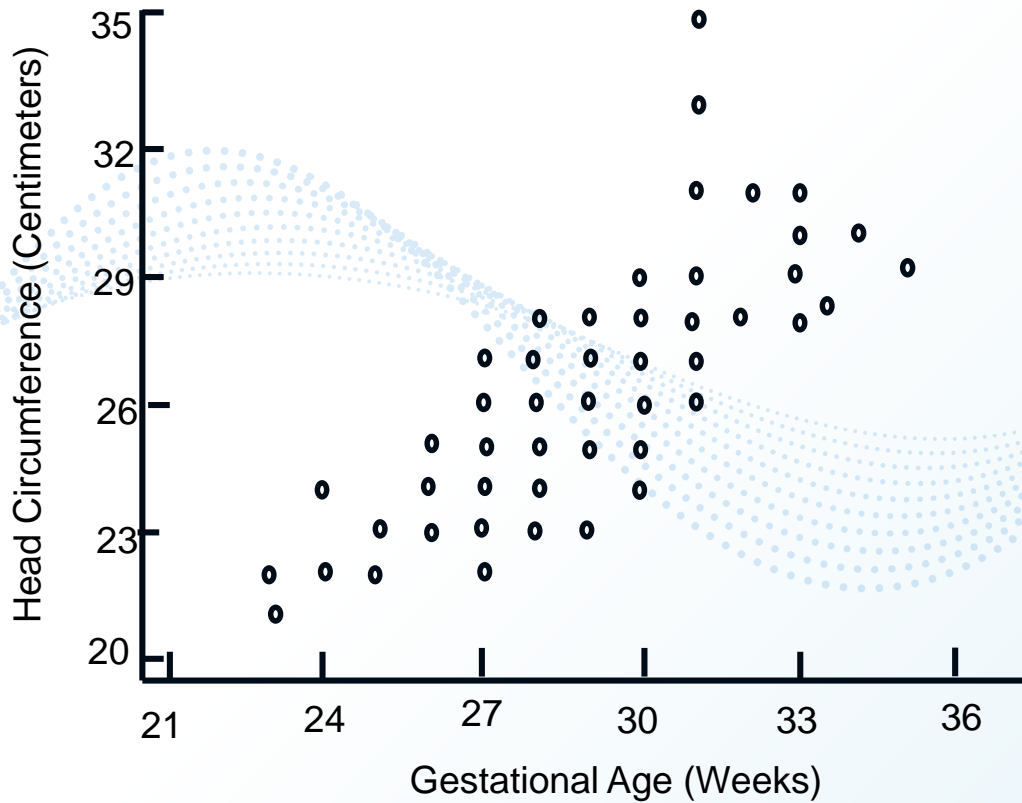


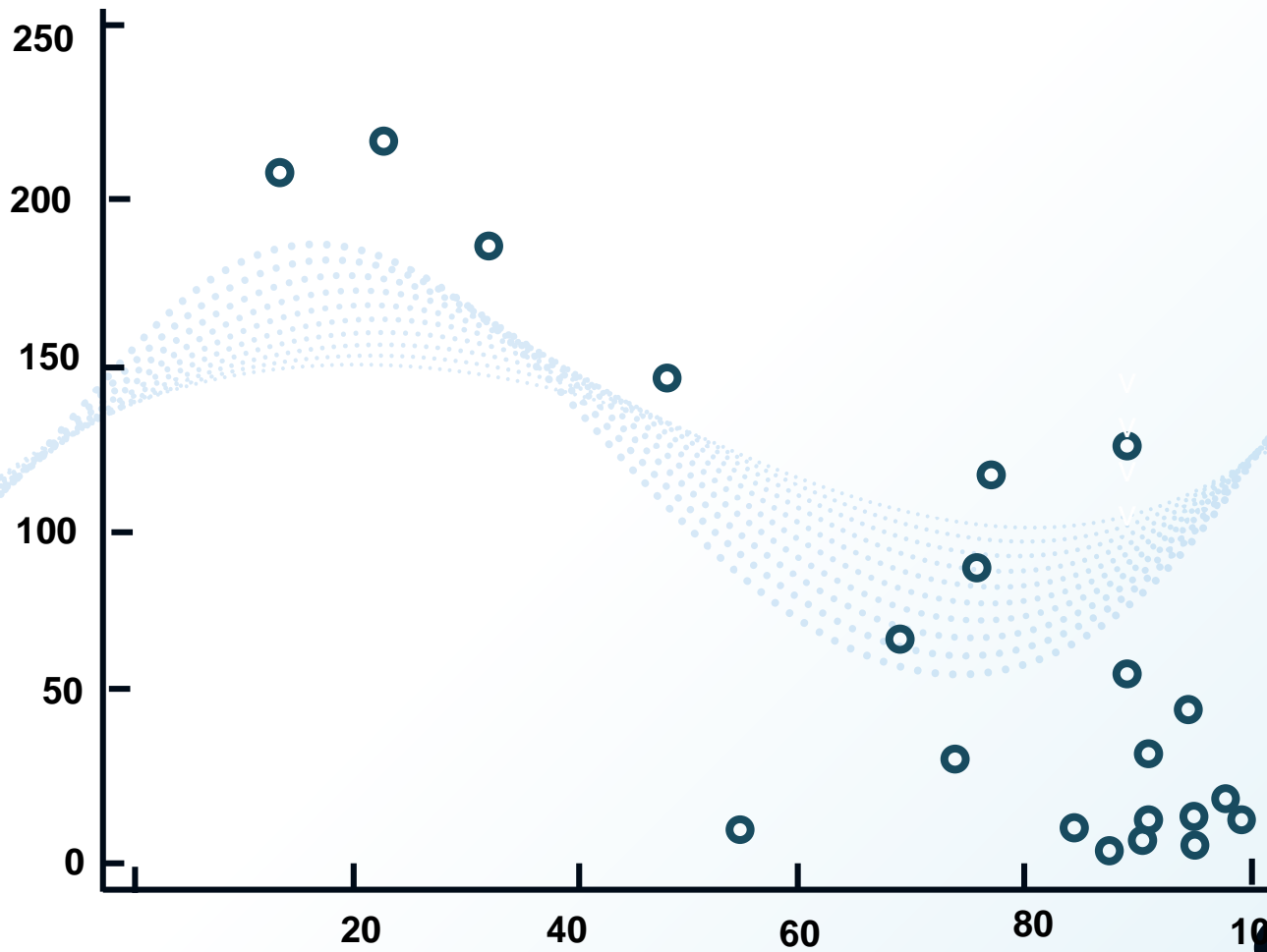
A



B

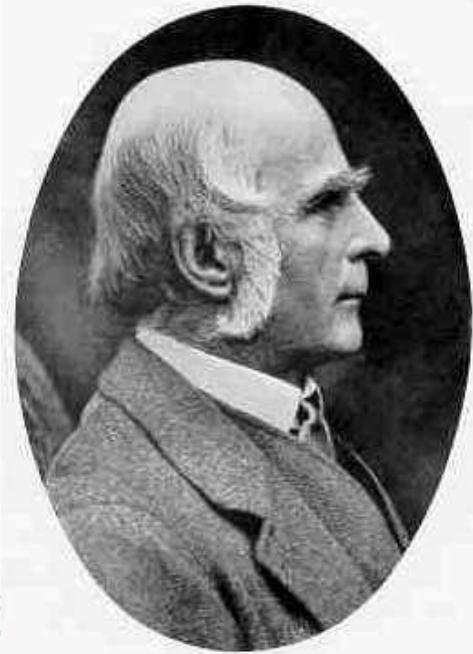






Correlation

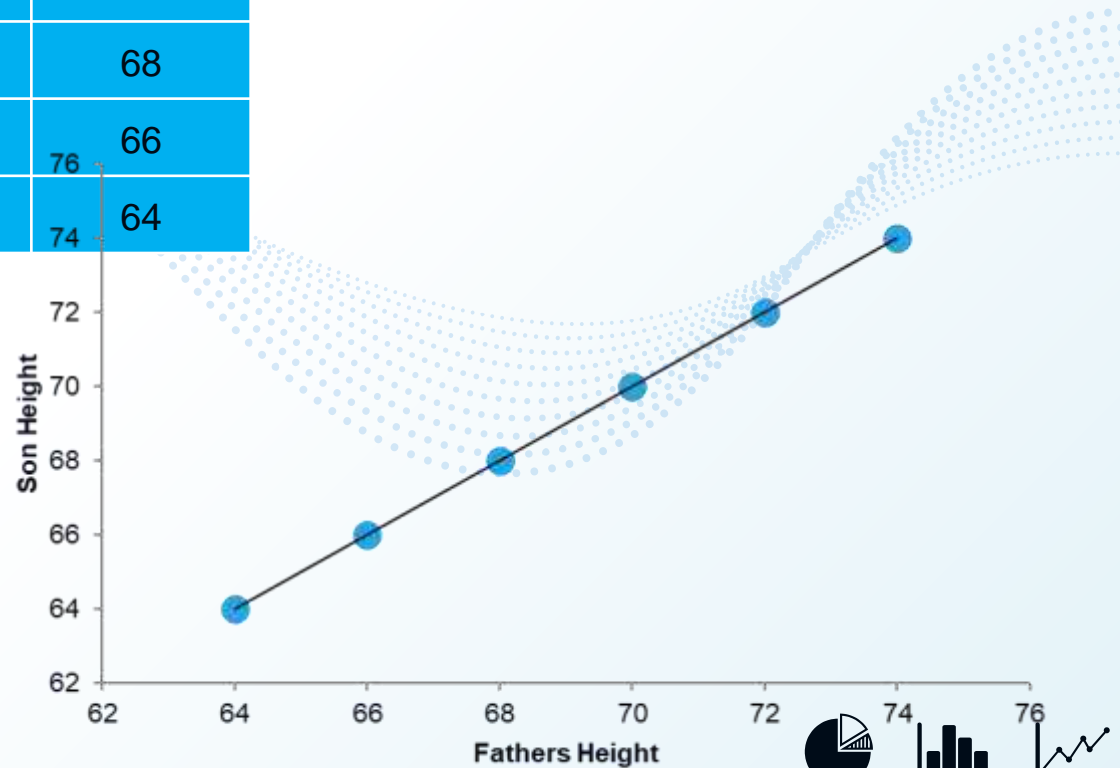
Statistical technique that describes the degree of relationship between two variables



Sir Francis Galton



Father	Height(in)	Son	Height(in)
Mr Patil	74	Patil Jr	74
Mr Jogdand	72	Jogdand Jr	72
Mr Nanaware	70	Nanaware Jr	70
Mr Raikar	68	Raikar Jr	68
Mr Navle	66	Navle Jr	66
Mr Despande	64	Deshpande Jr	64



1. Transition Headline

Let's start with the first set of slides



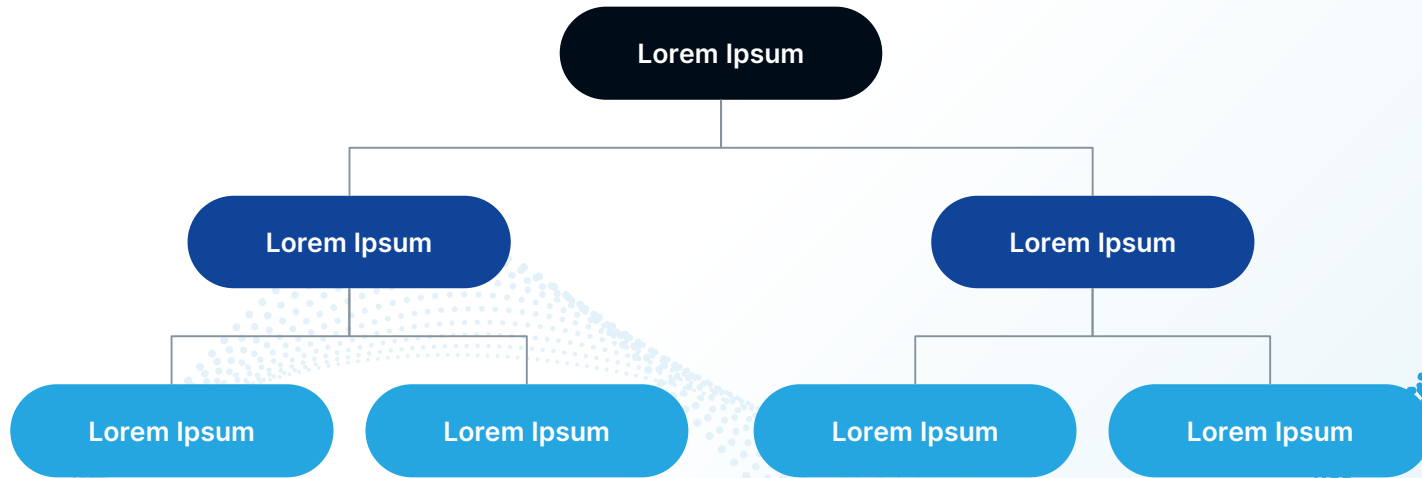
Quotations are commonly printed as a means of inspiration and to invoke philosophical thoughts from the reader.

Big concept

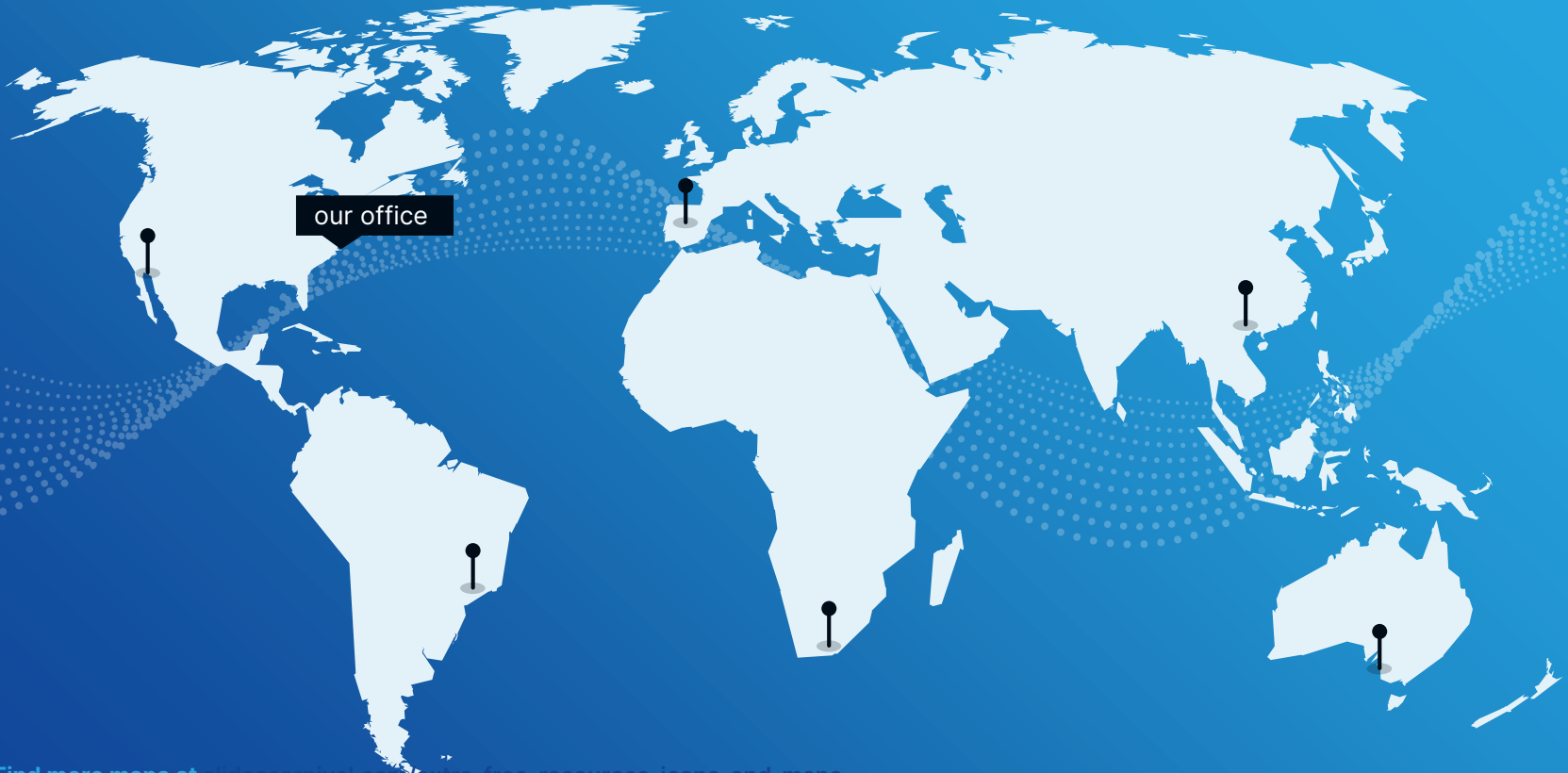
Bring the attention of your audience over a key concept using icons or illustrations



Use diagrams to explain your ideas



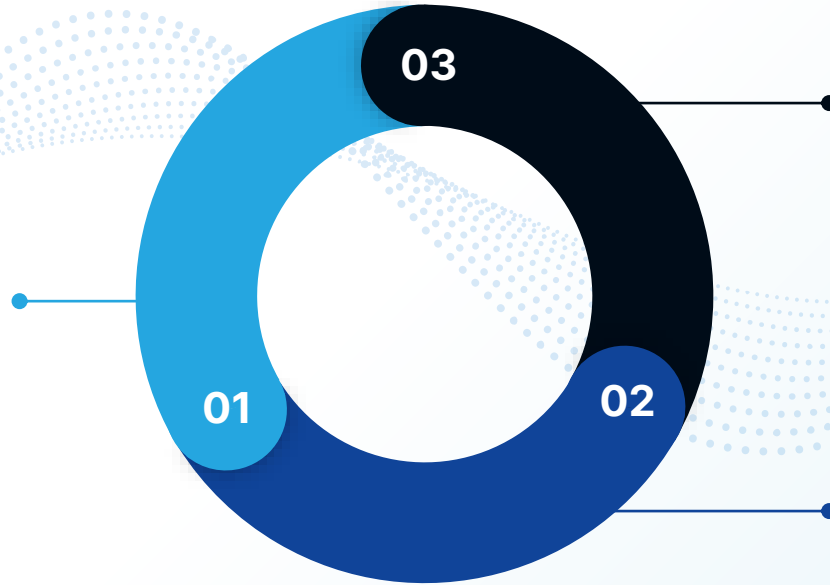
Maps



Our process is easy

Vestibulum congue tempus

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor. Donec facilisis lacus eget mauris.



Vestibulum congue tempus

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor. Donec facilisis lacus eget mauris.

Vestibulum congue tempus

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor. Donec facilisis lacus eget mauris.



Thanks!

Any questions?

You can find me at

- @username
- user@mail.me





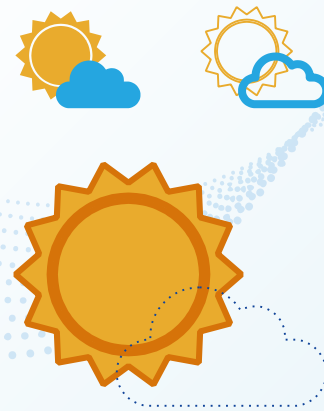
SlidesCarnival icons are editable shapes.

This means that you can:

- Resize them without losing quality.
- Change fill color and opacity.
- Change line color, width and style.

Isn't that nice? :)

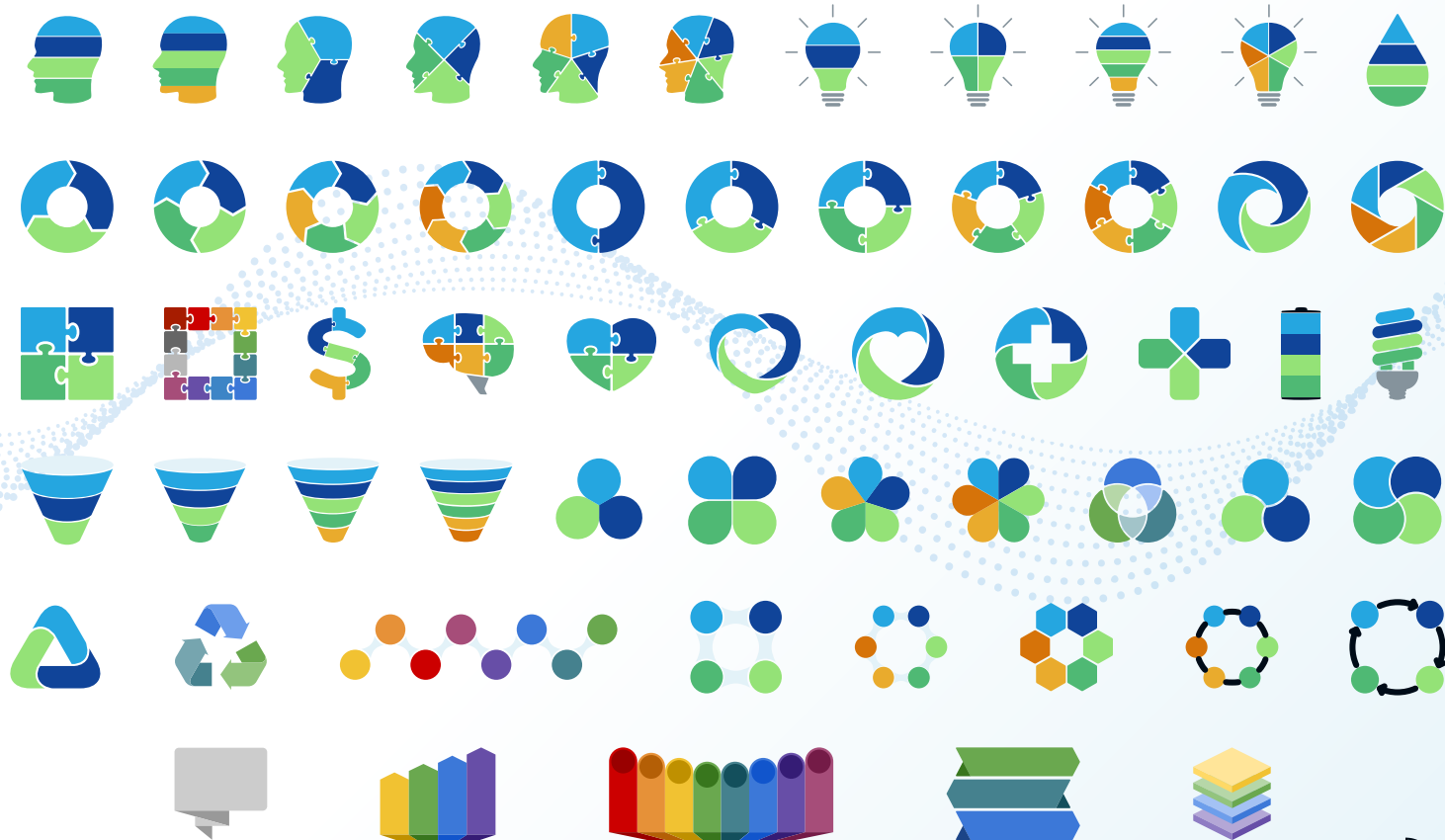
Examples:



Find more icons at slidescarnival.com/extra-free-resources-icons-and-maps



Diagrams and infographics





You can also use any emoji as an icon!
And of course it resizes without losing quality.

How? Follow Google instructions

<https://twitter.com/googledocs/status/730087240156643328>





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visuals