

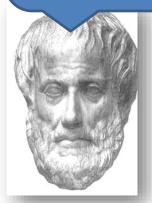
## From speculation to science:

## The Birth of Modern Psychology

Aristotle (4<sup>th</sup> century BCE) asked questions to understand the relationship between body and psyche.

His way of answering those questions was to **observe**... and **make guesses**.

I'm the first known writer in the field of psychology!! Holla!!



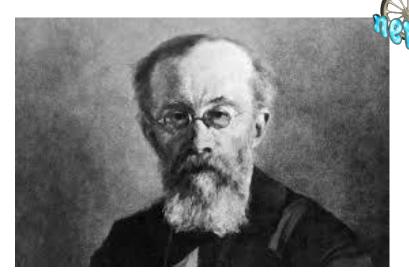


- Wilhelm Wundt (1832-1920) added two key elements to help make psychology a science:
  - 1. carefully measured observations
  - 2. experiments

Psychological Science is Born

COMPANIE OF

Structuralism



Wundt (1832-1920) Teacher



on your new bundle of joy

Titchener (1867-1927)
Student

Wundt and Titchener studied the elements of the mind by conducting experiments at Leipzig, Germany, in 1879.

Know this date / location!

## Structuralism



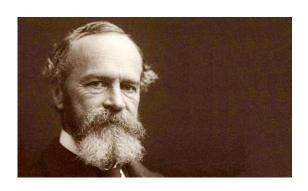
"Now! *That* should clear up a few things around here!"

- Primarily interested in discovering what the elements of human consciousness are.
- ■Identify the elements of consciousness through introspection.
- ■3 types of elements make up consciousness:
  - Sensations
  - •Images
  - Affect

Goal of structuralists is to analyze the properties and varieties of the 3 elements.

 Lost credibility when it couldn't support some of its own basic assumptions.

# Psychological Science is Born Functionalism



William James Teacher



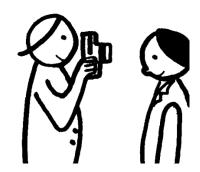
Mary Calkins Student

- American William James established the school of functionalism, which opposed structuralism.
  - Mary Calkins was denied a PhD from Harvard despite meeting all of the requirements. She went on to become the first female President of the APA (American Psychological Association).

## Functionalism

- Functionalists sought to explain the mental processes in a more systematic and accurate manner.
- Functionalists shifted concern to "How does the mind work or function" and "Why does it work that way?"
- Strongly influenced by Darwin's approach in biology.
- Instead of focusing on the individual parts of the mind, this approach focused on the workings of the mind to find the purpose of consciousness and behavior.

### STRUCTURALISM



Structuralists seemed to want to get a snap shot of the mind (via introspection), and then inventory all the things in the picture

## STATIC

#### **FUNCTIONALISM**

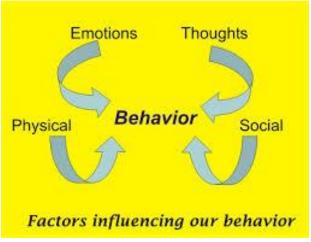


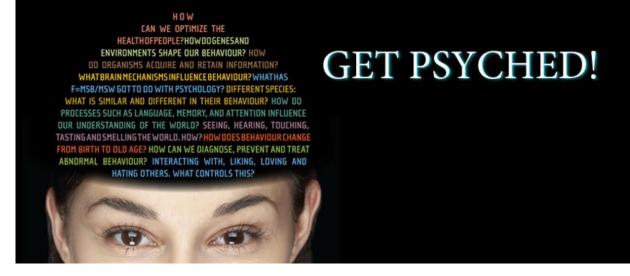
Functionalists wanted to get a fuller picture to see how all of the parts worked together, and what they accomplished as a result of the activity.

## DYNAMIC

# What does psychology look like today?

We define psychology today as the scientific study of behavior (what we do) and mental processes (inner thoughts and feelings).





# Introducing Psychology: Psychology's Four Goals

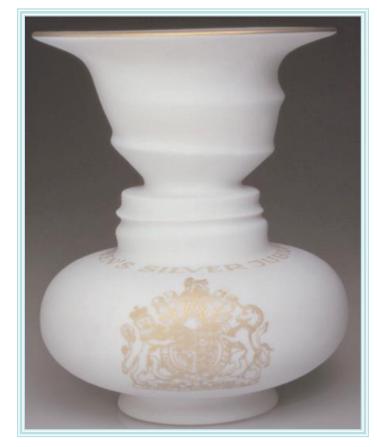
- 1. Description: Tells "what" occurred
- 2. Explanation: tells "why" a behavior or mental process occurred
- 3. Prediction: identifies conditions under which a future behavior or mental process is likely to occur.
- 4. Change: applies psychological knowledge to prevent unwanted behavior or to bring about desired goals.

## The scientific approach

Objective: Explain what psychology IS NOT, and demonstrate how psychology follows the scientific method.

# Why Do Psychologists and Other Scientists Need Multiple Perspectives?

Multiple perspectives allow psychologists to better understand and research complex behavior and mental processes.





# What Is Psychology - and What Is It Not?

- Psychology The scientific study of behavior and mental processes
- Psychology focuses on critical thinking and is scientific.
- Psychology is not
  - Mere speculation about human nature
  - A body of folk wisdom about people that "everybody knows" to be true. (Common sense)

# Why do we have to learn this stuff?

Psychology is first and foremost a science.



Thus it is based in research.

# Overconfidence Error 1:

### **Performance**

- We are much too certain in our judgments.
- We overestimate our performance, our rate of work, our skills, and our degree of self-control.

Test for this: "how long do you think it takes you to..." (e.g. "just finish this one thing I'm doing on the computer before I get to work")?

And your unscrambling speed?

HEGOUN ERSEGA

# Overconfidence Error 2:

### Accuracy

- We overestimate the accuracy of our knowledge. People are much more certain than they are accurate.
- Overconfidence is a problem in eyewitness testimony.
- Overconfidence is also a problem on tests. If you feel confident that you know a concept, try explaining it to someone else.



# What Is Psychology - and What Is It Not?

 Psychology disputes unfounded claims from pseudopsychology

## Pseudopsychology -

Erroneous assertions of practices set forth as being scientific psychology

# <u>Pseudopsychologies</u>

- · Examples of pseudopsychologies include:
  - Astrology: system that tries to relate personality to the movement of the stars
  - Mediums: individuals who serve as a channel of communication between the earthly world and spirits.
  - Palmistry: idea that reading a person's character from the lines on their palms
  - Psychokinesis: notion that humans can move objects through mental concentration
  - Follicology: notion that personality characteristics are related to hair color