Chapter 1	
What is Psychology?	
Sociology Social Psychology	
Psychology	
Biological Psychology (Neuroscience)	
Biology	
Biochemistry	
Chemistry  Physical Chemistry	
Physical Chemistry Physics	
Trysics	
Psychology is a word deriving from Greek roots:	
Psyche – "soul" or "mind"	
Logos – "word"	
Psychology is the systematic study of behavior and	
experience (Mental processes).	
Psychologists engage in the study of psychology in order	
to understand, explain and predict behavior.	
What are the major philosophical issues that are relevant to this study?	
relevant to this study?	
Free Will Versus Determinism	
Are the causes of behavior knowable, and is	
behavior predictable?	
Free will is the belief that behavior is caused by an individual's independent decision-making.	
<u>Determinism</u> is the assumption that everything that	
happens has a cause or determinant in the	
observable world.	
A believer in free will assumes that even with	
complete information regarding causes and	
conditions, predictions regarding human behavior	
can never be fully accurate.	
A determinist assumes that everything that happens has a cause that can be known.	
rias a cause triat carr be known.	
Benjamin Libet's experiment.	
The Mind-Brain Problem	
How is experience related to the ergon existence collect	
How is experience related to the organ system called the brain?	
the brain:	-
<u>Dualism</u> is the belief that the mind is separate from	
the brain but somehow controls the brain and	
through it also the rest of the body.	

Monism is the view that conscious experience is generated by and therefore is inseparable from the brain.	
Data from brain imaging research such as PET (positron emission tomography) suggests that brain activity and mental activity are two aspects of the same thing. Yet this question is far from resolved.	
The Nature-Nurture Issue	
How do differences in behavior relate to differences in heredity and environment?	
Some scientists assume that the larger proportion of differences in potential and behavior are due to the influence of genes.	
Some scientists assume that most differences are a result of aspects of the environment such as culture, expectations, and resources.	
This issue shows up in virtually every field of psychology, and knowledge gained through research seldom provides a simple answer.	
Approaches in Psychology – Structuralism	
William Wundt	
The first psychological laboratory: The work of William Wundt, Leipzig, Germany - 1879	
William Wundt was trained as a physician and did research on the workings of the senses.	
Although other psychology experiments had been done, this was the first laboratory devoted exclusively to the activities of psychological research.	
Wundt's fundamental question was: What are the components of experience, or mind?	
He presented his subjects with a wide variety of stimuli, and asked them to look within themselves, to introspect. He tried to measure the changes in their experiences as the stimuli changes.	
Wundt and his students did experiments in a wide range of areas related to psychology, and they wrote prolifically about their findings.	
Most importantly, Wundt demonstrated that it was possible to perform meaningful experiments in the science of psychology.	

	Edward Titchener	
	Edward Titchener was a student of Wundt who	
	immigrated to the United States in 1892.	
	He developed the approach he called structuralism	
	He developed the approach he called structuralism.	
	In structuralism, the researcher attempts to describe	
	the structures that compose the mind – the	
	sensations, feelings and images.	
	Titchener presented a stimulus to his subjects and	
	asked them to analyze its separate features.	
	After Titchener's death in 1927, his research	
	methods were abandoned.	_
	There was no feasible way to shock the assuracy of	
	There was no feasible way to check the accuracy of his subjects' observations.	
	Tills sabjects observations.	
	As psychology evolved through the 20th century,	
	psychological researchers became more interested in	
	describing and analyzing readily observable	
	behaviors.	
App	proaches in Psychology – Functionalism	
	William James The Drive inter of Developer (1990)	
	William James: The Principles of Psychology (1890)	
	The American psychologist William James was	
	keenly interested in what the mind does, rather than	
	the elements of mind.	
	He rejected the methods of Wundt and Titchener.	
	He wanted to learn how the mind produces	
	behaviors. He called his approach <i>functionalism</i> .	
	benaviors. The danca has approach ranchonansm.	
	Typical questions asked from a functionalist	
	perspective:	
	How does a person recall the answer to a question?	
	How does a person inhibit an undesirable impulse?	
	Can a person attend to more than one task at a time?	
	time:	
	Evolutionary Psychology	
	, , ,	
	An Evolutionary Psychologist tries to explain	
	behavior in terms of the evolutionary history of the	
species, and how specific behaviors are selected		
	through Natural Selection.	
	The enormous impact of Darwin: The origin of	
	species (1859); The descent of man (1871)	
	(	

In his presentation of compelling evidence that humans and other animal species were related, Charles Darwin forced scientists and thoughtful people working in many disciplines to consider the basic features held in common by many or all animals, such as thinking and intelligence. Comparative psychologists, who use this perspective, are specialists who compare different animal species. Comparative psychology Early comparative psychologists devised a number of experiments to try to measure animal intelligence, such as: The delayed response problem The detour problem The pattern recognition problems Some species appeared to be gifted in one set of tasks and highly deficient in another. Eventually the inconsistencies in performance between different tasks across a single species suggested to comparative psychologists that questions about animal intelligence might be meaningless. This issue is similar to some of the problems that we currently are encountering in the controversial area of measuring human intelligence. Human intelligence and IQ testing Francis Galton was one of the first scientists to try to measure human intelligence and determine to what extent heredity influenced variations in human cognitive abilities. He studied the sons of accomplished men and found that the offspring of the talented and famous had a high probability of being accomplished too. He explained this as due chiefly to the influence of heredity. Is this the only possible explanation? Alfred Binet (and Simon) devised the first useful intelligence test 1905, at the behest of the French government, for use in identifying children in the public school system who might be in need of special services. His test was imported to the United States after his death, and was the "template" for the development of many tests of intelligence and other qualities of interest in the field of psychology.

Approaches in Psychology – Behaviorism	
Behaviorism – John B. Watson and B.F. Skinner	
ecall that structuralism was abandoned because it	
was difficult to study the subjective perception of	
experience.	
Behaviorism is a field of psychology that	
concentrates on observable, measurable behaviors	
and not mental processes.	
Behaviorists primarily seek to study the observable	
behaviors associated with what is generally referred to as learning.	
to as learning.	
Behaviorism and Studies of Learning	
The earliest researchers in the field of learning	
expected to find that it operated using simple, basic and predictable laws, comparable to Newton's	
physical laws of the universe.	
priyologi lawo or the grinteree.	
Much as Newton's "majestic clockwork" has given	
way to the more random and unpredictable world of	
modern quantum physics, the specialty of	
behaviorism has revealed some laws of behavior, but a good deal of complication arising from other	
processes (such as the influence of cognition and	
motivation.)	-
Learning and Motivation	
A psychologist who studies and does research in this	
area is interested in how behavior depends on	
outcomes of past behaviors and on current	
motivations.	
Ampropoles in Poughology Cognitive	
Approaches in Psychology – Cognitive	
By the 1950s, researchers such as Ulric Neisser were	
challenging the behaviorists' assumptions, arguing	
that internal cognitive processes could and should	
be studied by psychologists.	
Early cognitive psychologists developed techniques	
for measuring thinking and reasoning processes	
objectively that are still used by researchers today.	
Approaches in Psychology – Psychoanalysis	
Sigmund Freud and Psychoanalysis	
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Sigmund Freud revolutionized psychology by	
proposing the existence of an "unconscious mind"	
rooted in our animal origins.	

He worked with his patients to understand how this hidden part of the mind influenced their mood and behavior by analyzing their dreams, fantasies, and exploring their perceptions of their own early childhood experiences.

Although much of his theory has been recently questioned or rejected as unscientific, modern psychology is still heavily influenced by his ideas about treatment of psychological distress.

## Approaches in Psychology – Humanistic

Humanistic psychology, led by Abraham Maslow and Carl Rogers in the 1960s, was a reaction against both behaviorism and Freud's psychodynamic theory.

Unlike the behaviorists, the humanists felt that internal experience was extremely important for understanding behavior. Unlike Freud, however, the humanists proposed that human nature is inherently good, and that all people want to improve themselves if they can.

Humanistic approaches involved treating clients as peers rather than subordinates, and changing the environment as a way to help improve the individual – ideas that are still very influential in clinical psychology today.

## Women in Psychology

In the early days of psychology, opportunities for women were limited as they were in so many areas at the time.

Mary Calkins was one of the pioneering women in the field. Her graduate education in psychology at Harvard was paid for as part of her teaching salary at Wellesley College.

Although she never received the Ph.D. that she earned from Harvard, she went on to do research, study the function of memory, and serve as the president of the American Psychological Association.

Christine Ladd-Franklin -- psychologist, logician, mathematician, physicist and astronomer Leta Stetter Hollingworth -- Psychology of women and sex differences Margaret Washburn -- First PhD; animal behavior, and motor theory Karen Horney & Anna Freud -- Psychoanalysis

Perspectives in Psychology	
There are many specialties in the broad science of	· <del>· · · · · · · · · · · · · · · · · · </del>
psychology. Psychologists practice within their	
chosen specialty in 3 main areas:	
	-
Teaching and Research	
Service Providers to Individuals	
Service Providers to Organizations	
Tanching and Decearch	
Teaching and Research	
Most teaching psychologists work in colleges and	
universities.	
Most psychologists who teach also engage in	
research and writing.	
Some psychologists are employed in full-time	
research positions.	
Major categories of psychological research	-
iviajor categories or psychological research	
Biological Psychology (or neuroscience)	
A bio-psychologist tries to explain behavior in	
terms of biological factors, such as anatomy,	
electrical and chemical activities in the nervous	
system, and the effects of drugs, hormones,	
genetics and evolutionary pressures.	
Cognitive Psychology	
A cognitive psychologist studies the processes of	
thinking and acquiring knowledge.	
3 1 3 3	
Social Psychology	-
A social psychologist studies how an individual	
influences and is influenced by other people	
Developmental Psychology	
A developmental psychologist studies the	
behavioral capacities typical of different ages	
and how behavior changes with age.	
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Service Providers to Individuals	
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There are many types of <u>psychotherapists</u> , professionals with training in psychology who	-
specialize in helping people with psychological	
problems, actually are trained in a variety of	
disciplines.	
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Clinical psychologists have advanced degrees in	
psychology, with a specialty in understanding	
and helping people with mental and emotional problems.	
problems.  They receive training in intellectual and	
psychological testing intended to aid in diagnosis	
and treatment.	

<u>Psychiatrists</u> are trained as medical doctors. In addition to learning the principles of psychology, they are educated in how to use prescription drugs to treat psychological distress. Psychiatric nurses receive standard nursing education plus additional training in the care of emotionally troubled individuals. They usually work in medical clinics and hospitals. Psychiatric and clinical social workers combine training in traditional social work with specialized knowledge of how to treat emotionally disturbed people and advocate for their well being within the larger community. Psychoanalysts are psychotherapists who use mental health treatment strategies that are based on the theories and methods pioneered by Sigmund Freud. Freud believed that an unconscious component of the human mind affects our functioning in day-to-day life. Counseling psychologists have an advanced degree in psychology and help people with educational, vocational, marriage, health, and other important life decisions. They receive training in therapy and some types of psychological testing. Forensic psychologists provide advice and consultation to those who work in the criminal justice system Service Providers to Organizations Industrial/Organizational Psychologists study people's behavior in the workplace using a combination of social, cognitive, and motivational psychology principles, and often employing psychological tests. An ergonomist, or human factors specialist, attempts to facilitate the use of machinery and appliances so that the average user can operate them as efficiently and as safely as possible. A school psychologist specializes in the psychological condition of the students, usually at the kindergarten through secondary school levels. School psychologists draw upon a combination of developmental, learning and motivational principles, and often use educational and psychological tests to assist with educational

planning for individual students.