

WELCOME TO PSYC 110

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most people don't listen to understand you, they listen so they can reply to what you say. listen to understand.

PSYC 110 (General Psychology)

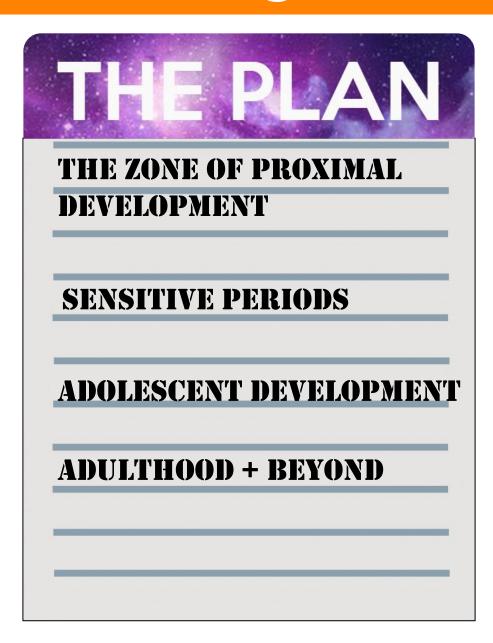
Module 4:

Development

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What should we get out of today?





Vygotsky's theory considered external influences

According to Vygotsky, adults have a critical influence on child's cognitive development

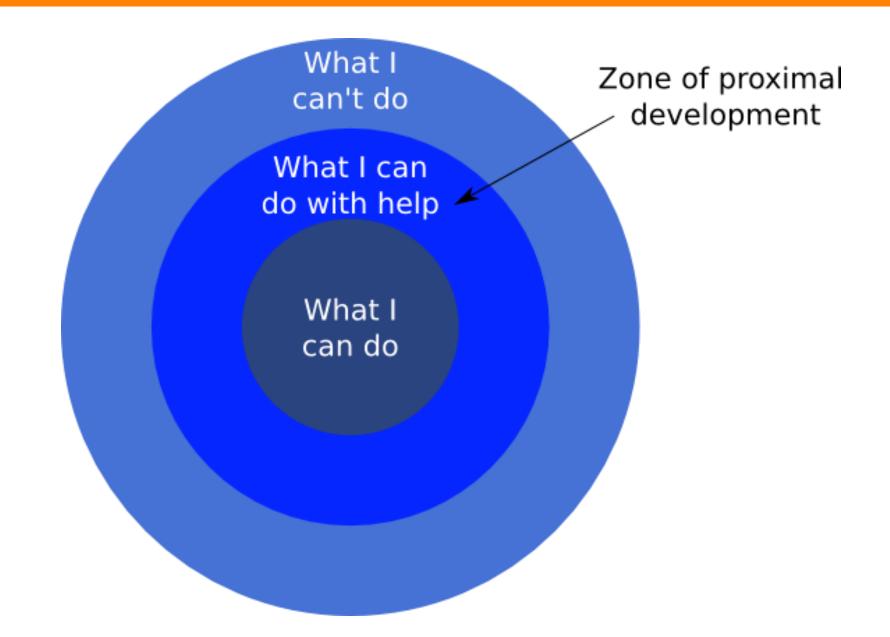
Scaffolding

 Providing a framework for child to be successful with a skill just above their level of competency



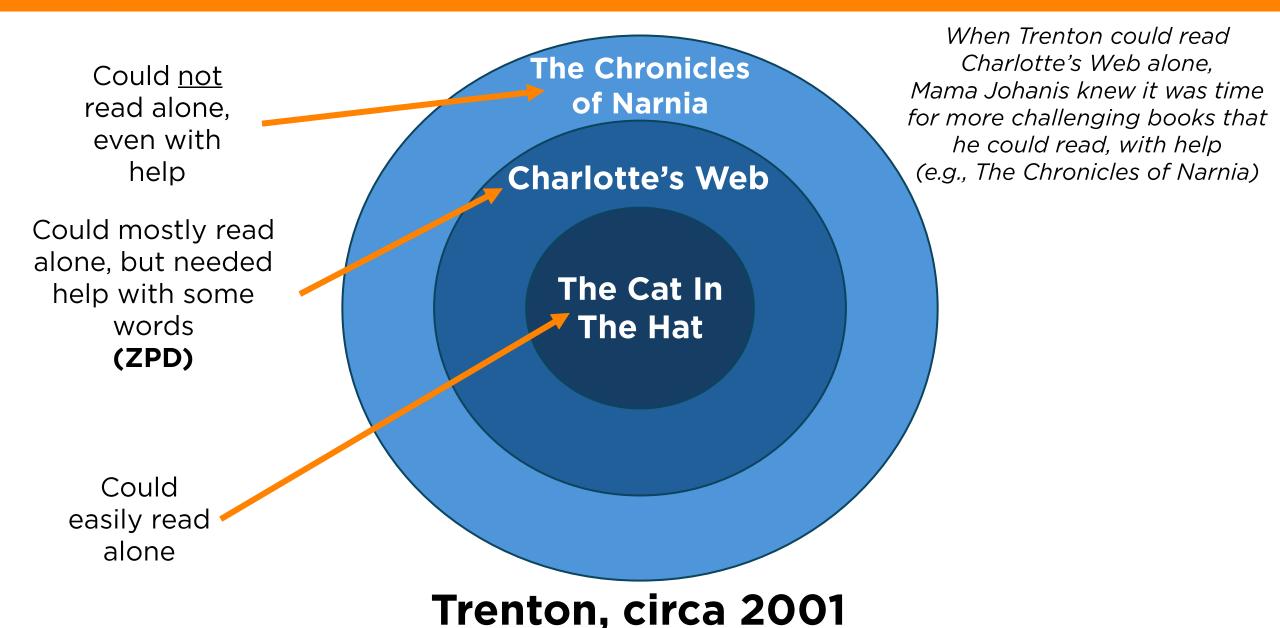


Children best develop skills when adults provide the right amount of help





The Zone of Proximal Development (ZPD) is the opportunity for growth





Neuroplasticity is highest in childhood



Neuroplasticity Ability of the brain to form new connections—learning

Sensitive Periods

Specific times in the lifespan where specific external influences are required for specific aspects of cognitive and neural development



Stimulation is critical during sensitive periods









We naturally help infants develop language

Infant-Directed Speech

"Motherese"

Exaggerated intonation and segmentation

Helps infants learn language understanding and speaking

Appears to be an innate behavior—performed naturally by most people



Lack of input during a sensitive period can have life-long consequences

<u>Genie</u>



Kept in a locked room from 20 months old

Discovered at age 13

No language

- Failed to receive stimulation during critical period (infancy and childhood)
- Never could learn to speak even after she was freed

Exhibited other cognitive and social deficits















Adolescence is the Formal Operational stage





Adolescence is the Formal Operational stage



Cognitive

- Abstract thinking
- Complex reasoning
- Executive function
 - Future planning
 - Impulse control
 - Making decisions

Neurological

- Frontal lobe
 - Prefrontal Cortex
- Pruning
- Dopamine





Adolescents exhibit high dopamine-seeking behavior

Remember:

Passing one of Piaget's stages doesn't always mean mastery!

Adolescents tend to have poor impulse control and lack consideration of consequences

Very vulnerable to social pressure

Thumbs up if you want to engage in some risky behaviour!





Adolescents exhibit high dopamine-seeking behavior





"When you're young, everything feels like the end of the world..."

Adolescent Egocentrism

What it feels like









"When you're young, everything feels like the end of the world..."

Adolescent Egocentrism



Personal Fable

- I am unique
- I am invincible

Imaginary Audience

- Everyone pays attention to me
- Everyone cares about what I do



"...it's not—it's just the beginning."

Erikson's Theory of Identity Formation





"...it's not—it's just the beginning."

Erikson's Theory of Identity Formation

Low Exploration

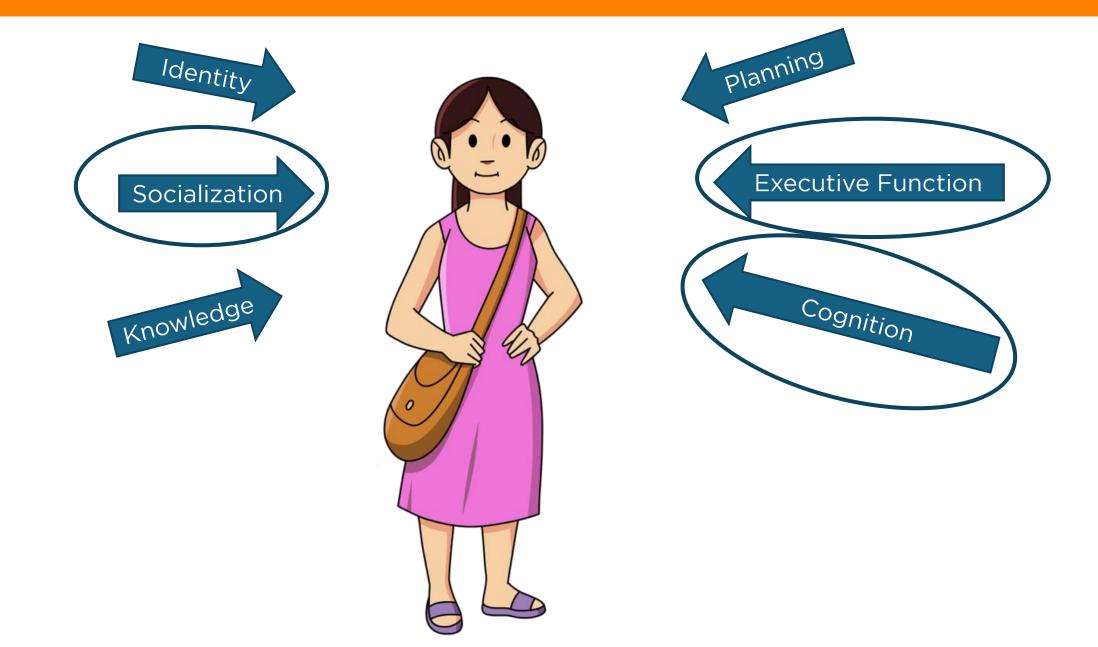
High Exploration

Low Commitment

High Commitment



Adolescent development is complex and critical









ADULTHOOD + BEYOND







Our brains <u>never</u> stop developing!

Learning gets <u>more difficult</u> as we get older, but never stops completely

Neuroplasticity decreases with age

Stimulation becomes most important

 Brain prioritizes pruning if connections aren't being used

Adults use cognitive strategies (experience) to make up for cognitive decline





Neurodegeneration is a natural process

Why do we lose cognitive function later in life?

Thanks to technology, the human life has been extended substantially

- Average expectancy in 1922: ~59 years
- Average life expectancy in 2025: ~78 years

Could Dementia be a consequence?

Brain is evolutionarily designed to be efficient

- We prune unused connections
- How long has it been since you used the Quadratic Formula?
 Can you recall it from memory?







As long as we are alive, we develop

Nature vs. Nurture

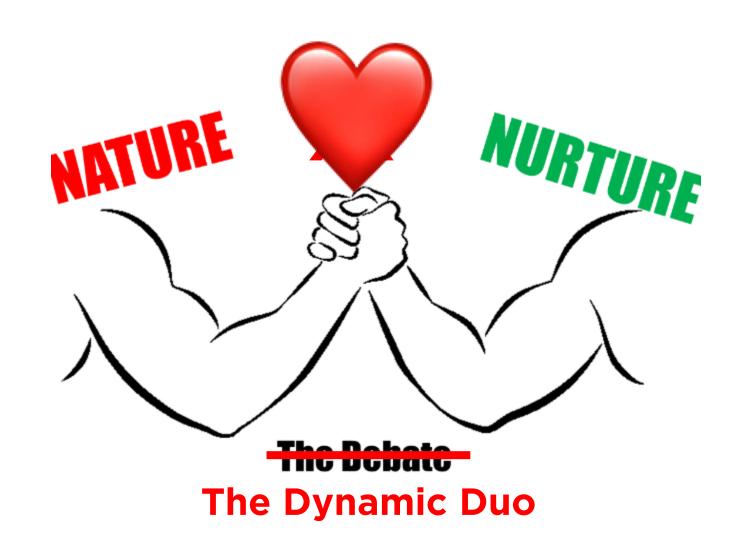
Nature = our *potential* for growth

Nurture = external input that influences how growth occurs





Did you keep this in mind?

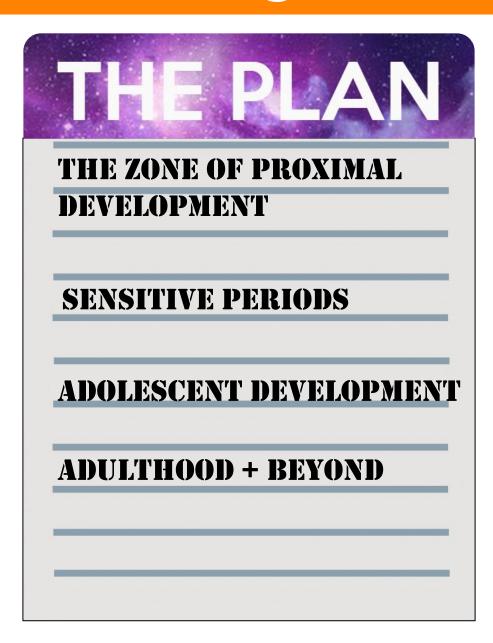






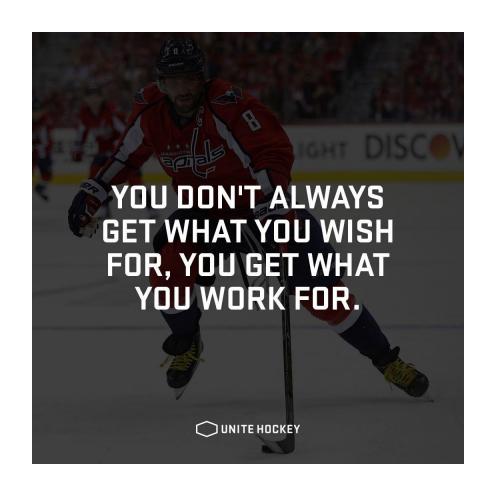


What should we get out of today?





How did we do?



For y'all:

Friday Quiz 4 is Feb 21

Reflection Journal 4 due Feb 23

InQuizitive due Feb 23