



PSYCHOLOGY

WELCOME TO PSYC 110

brotip #309

change your ex's name
in your phone to help
yourself get over them.
it's kind of hard to sext
"aunt mildred".

brotips|tumblr

PSYC 110 (General Psychology)

Module 4:

Developmental Psychology

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THE PLAN

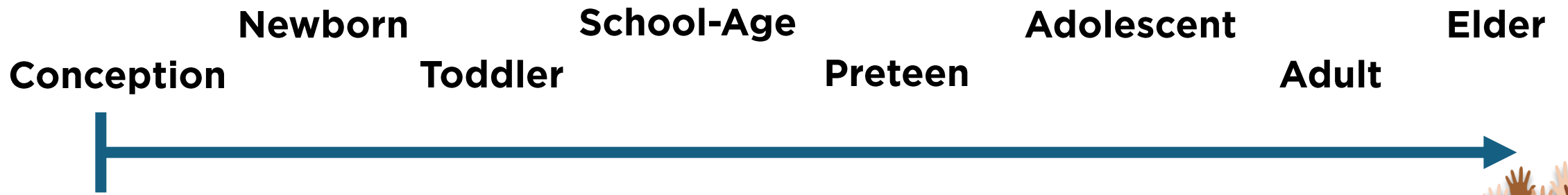
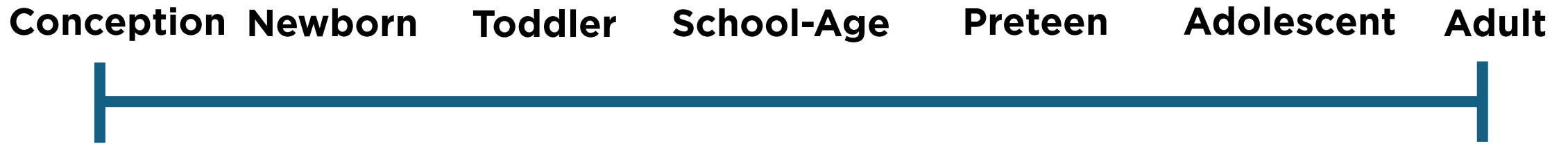
**WHAT IS DEVELOPMENTAL
PSYCHOLOGY?**

PRENATAL DEVELOPMENT

DEVELOPMENT IN INFANCY

CHILDHOOD DEVELOPMENT

When does development start, and end?

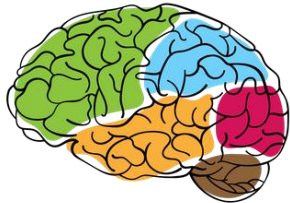


Physiological

Visible growth



Brain structure changes



Motor control



Social

Parental attachment



Peers and networking

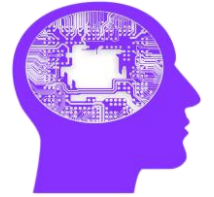


Social convention



Cognitive

Information processing



Language learning



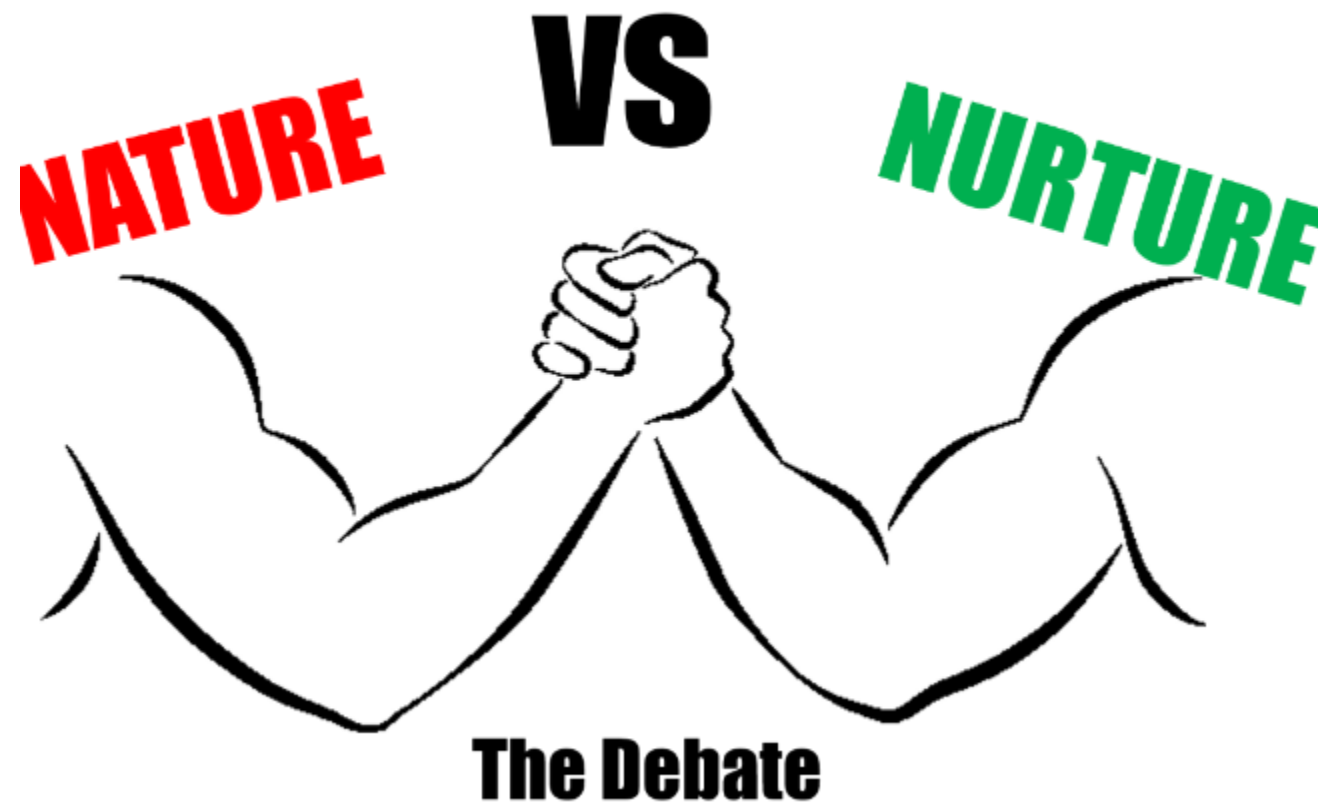
Emotion regulation



+ MORE

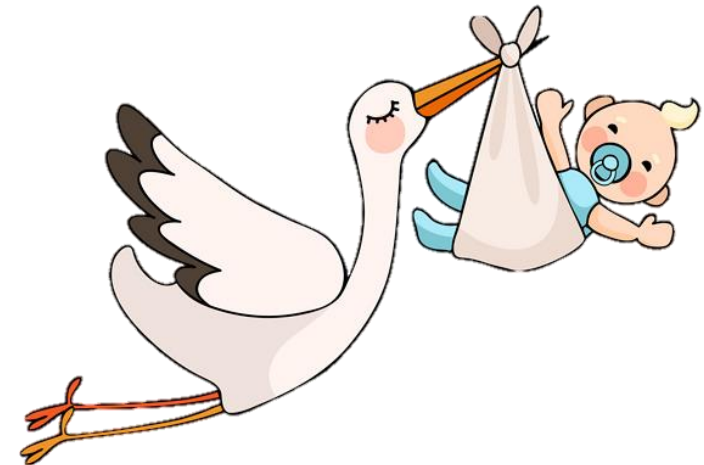


Keep this in mind through this module: Which is more influential?



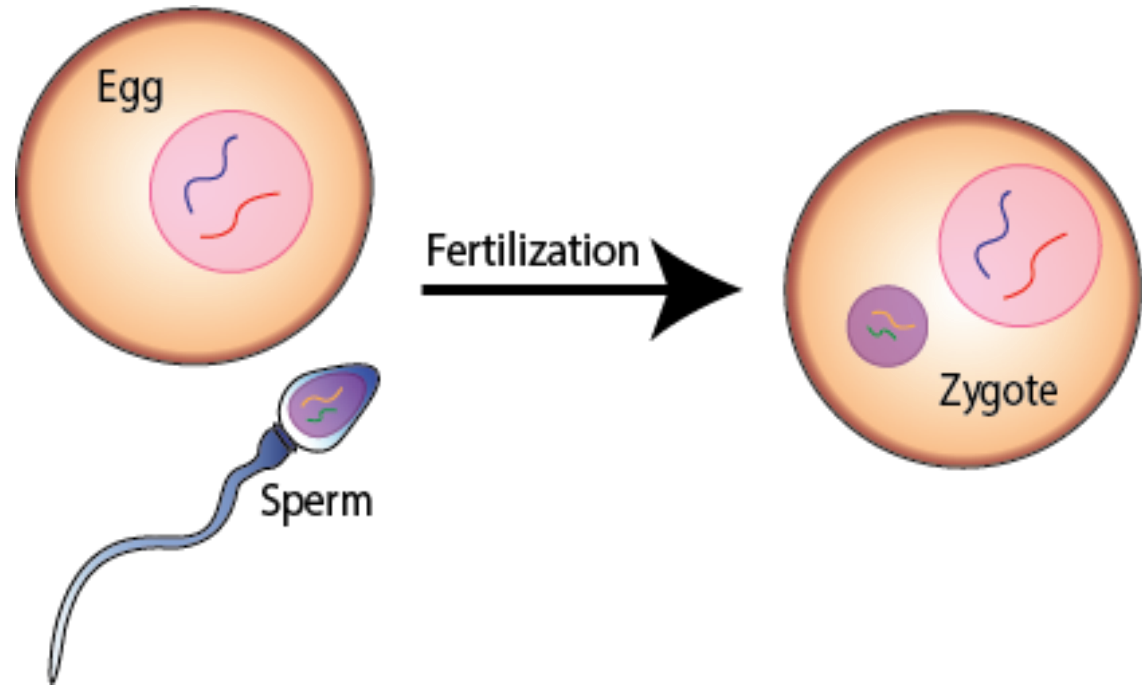


PRENATAL DEVELOPMENT

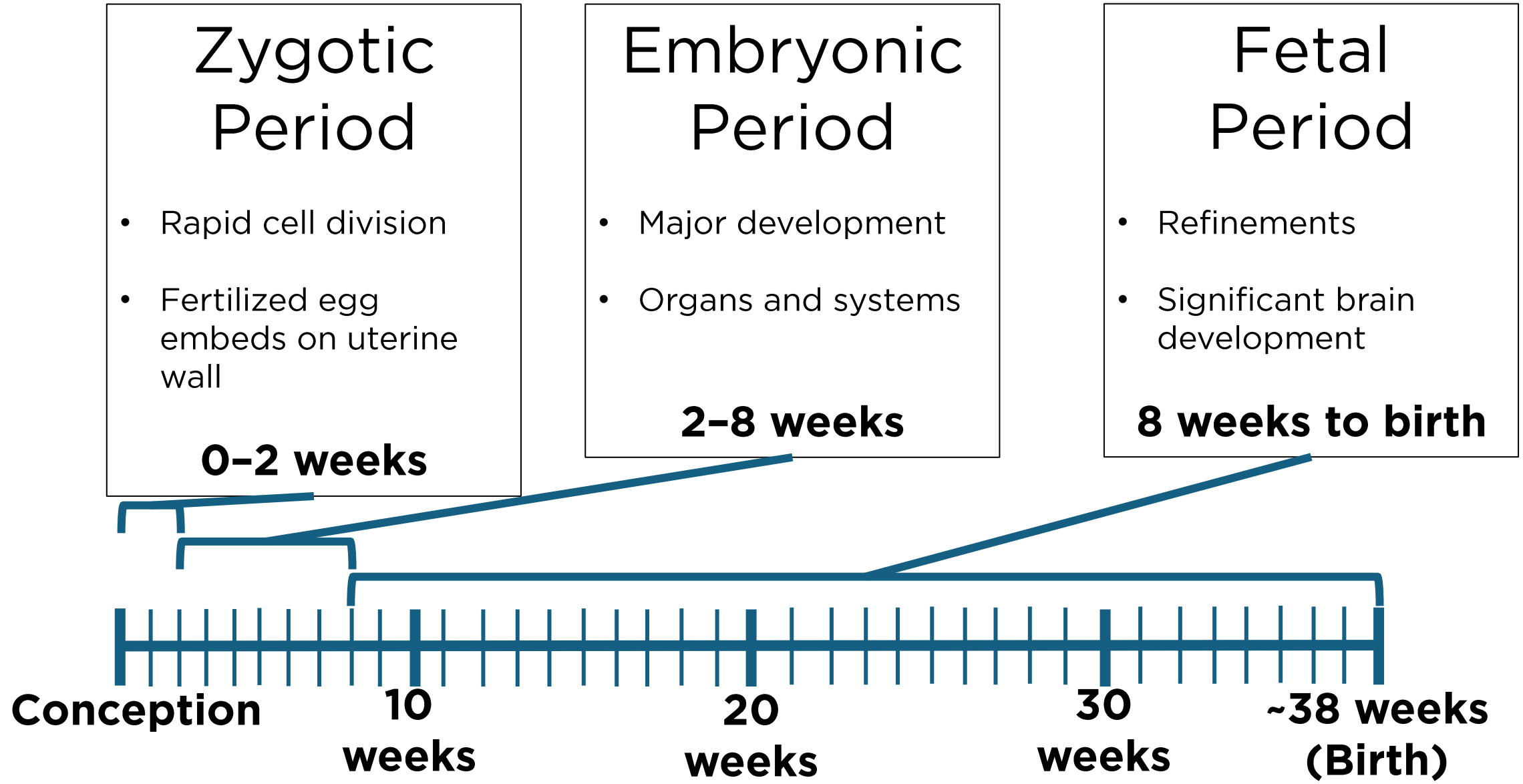


Mom, where do babies come from?

$$\text{Gamete} + \text{Gamete} = \text{Zygote}$$

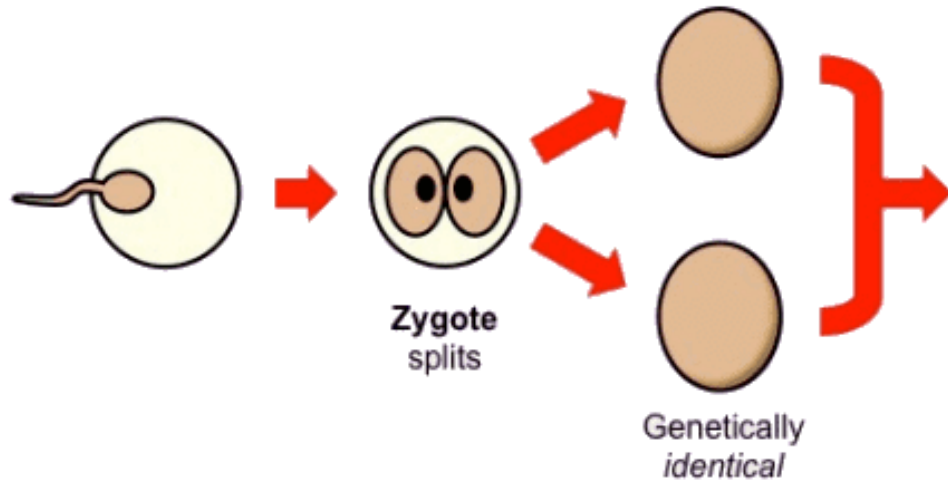


Prenatal development has three major stages



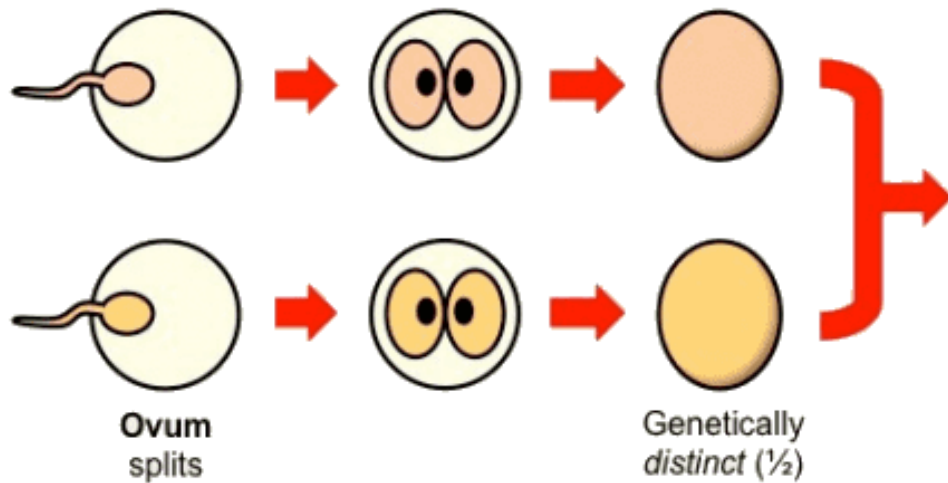
Prenatal development can vary: Twins!

MONOZYGOTIC



IDENTICAL

DIZYGOTIC



FRATERNAL

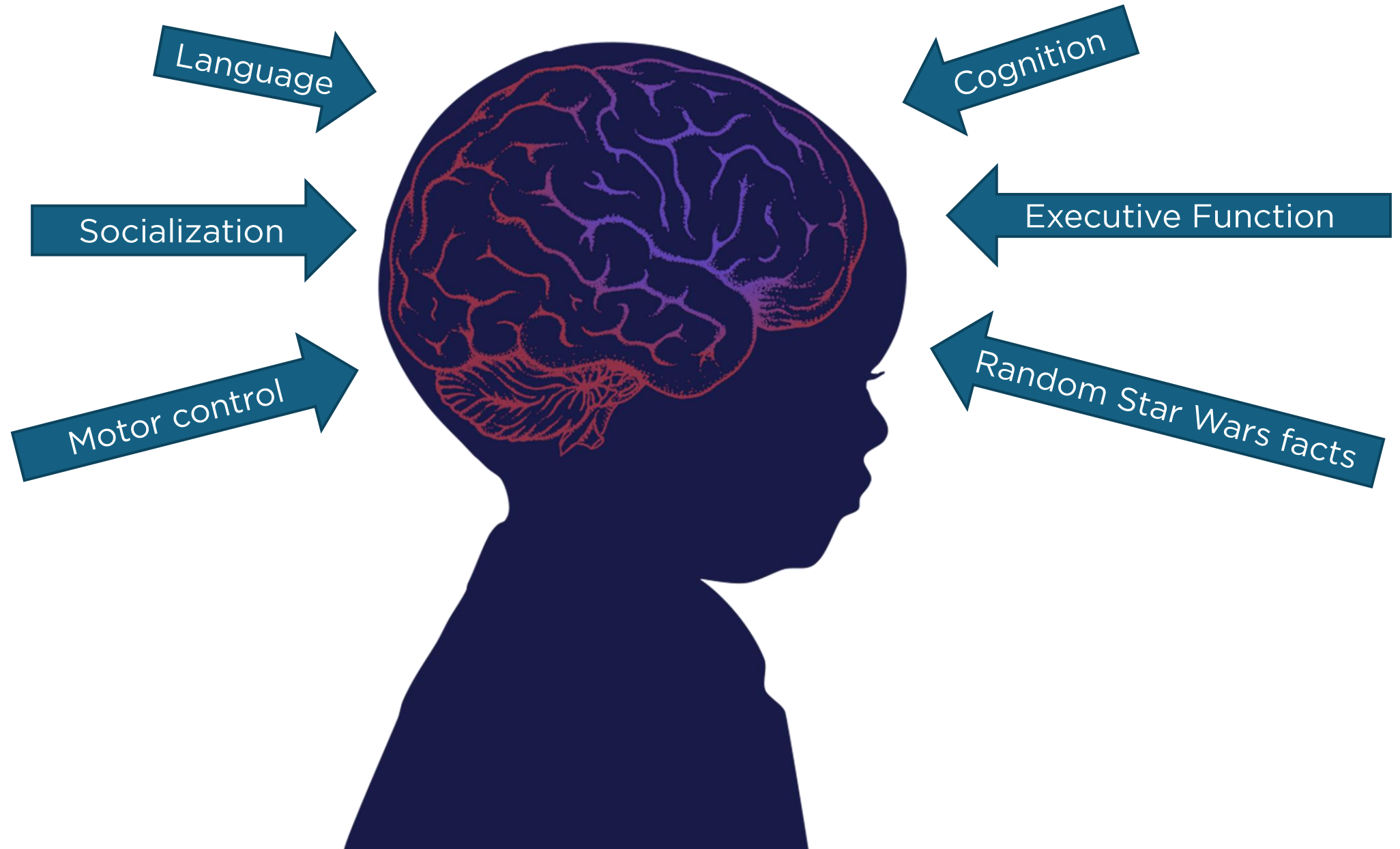


INFANCY + CHILDHOOD DEVELOPMENT





A baby brain is ready to learn at birth





Birth to Adolescence

Dialectical

- Based on incorporating new and conflicting information

Constructivist

- Children build their own understanding of the world

Piaget divided cognitive development into stages

Sensorimotor						Preoperational	Concrete Operational	Formal Operational
1	2	3	4	5	6			
0 - 2 years						2 - 7 years	7 - 12 years	12+ years

A large blue arrow pointing to the right, positioned at the end of the table.

Sensorimotor



Learning through actions

1	2	3	4	5	6
0 - 1 month	1 - 4 months	4 - 8 months	8 - 12 months	12 - 18 months	18 - 24 months
Reflexes	Primary Circular Actions (own body)	Secondary Circular Actions (external; objects, people)	Object Permanence Sequences of actions	Tertiary Circular Actions (interactions between objects) “Little Scientists”	Mental Representation (acting on memory)

Preoperational (2 - 7 years)



- Symbolic thinking
 - Communication of thoughts and feelings
- Animism
 - Ascribing feeling/intention to inanimate objects (e.g., stuffed animals)
- Egocentrism
 - Difficulty understanding others' perspectives

Preoperational (2 - 7 years)

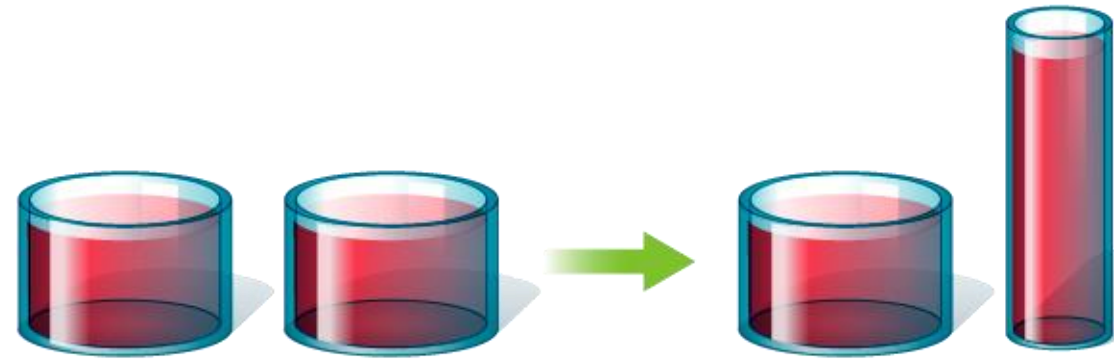


- Preconceptual thinking
 - 2 to 4 years
 - Little to no understanding of logic
- Intuitive thinking
 - 4 to 7 years
 - Logic only based on own perceptions and experiences

Concrete Operational (7 - 12 years)



- Understands conservation



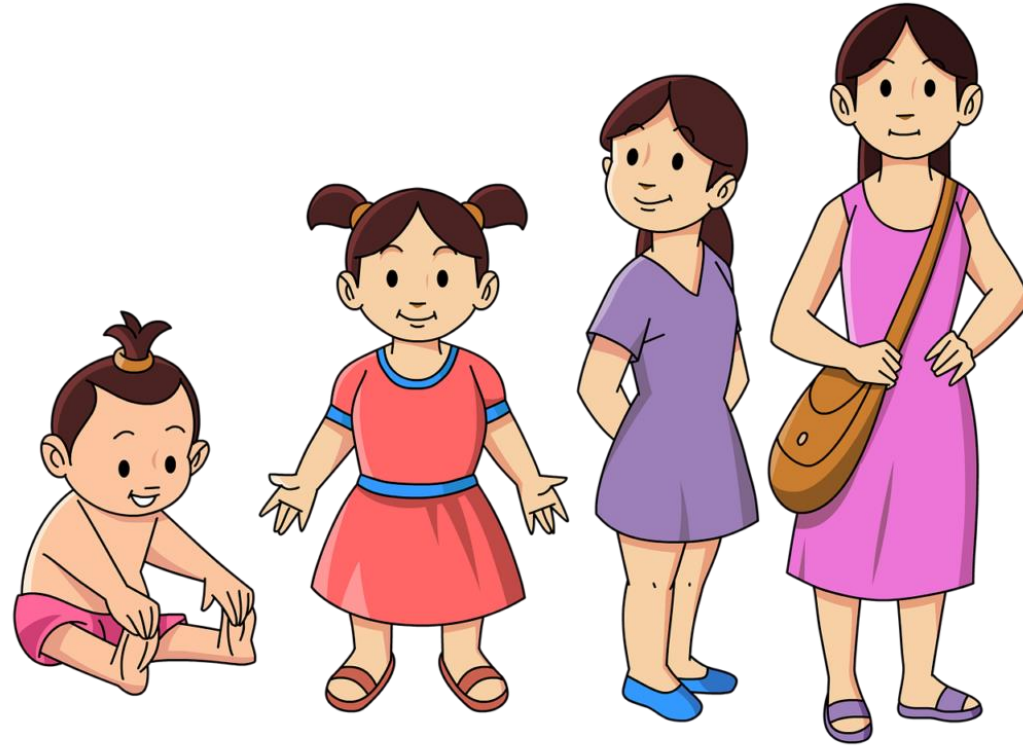
- Can make sense of the present but hypotheticals are difficult

Formal Operational (12+ years)



- Thinking like an adult...kinda
- Abstract reasoning
 - Hypotheticals
 - Outside-the-box thinking

Piaget divided cognitive development into stages



All Piaget stages and their components *must* be completed in full

Time spent in each period can vary

Can learn skills from other stages before leaving current one
(e.g., prodigies)

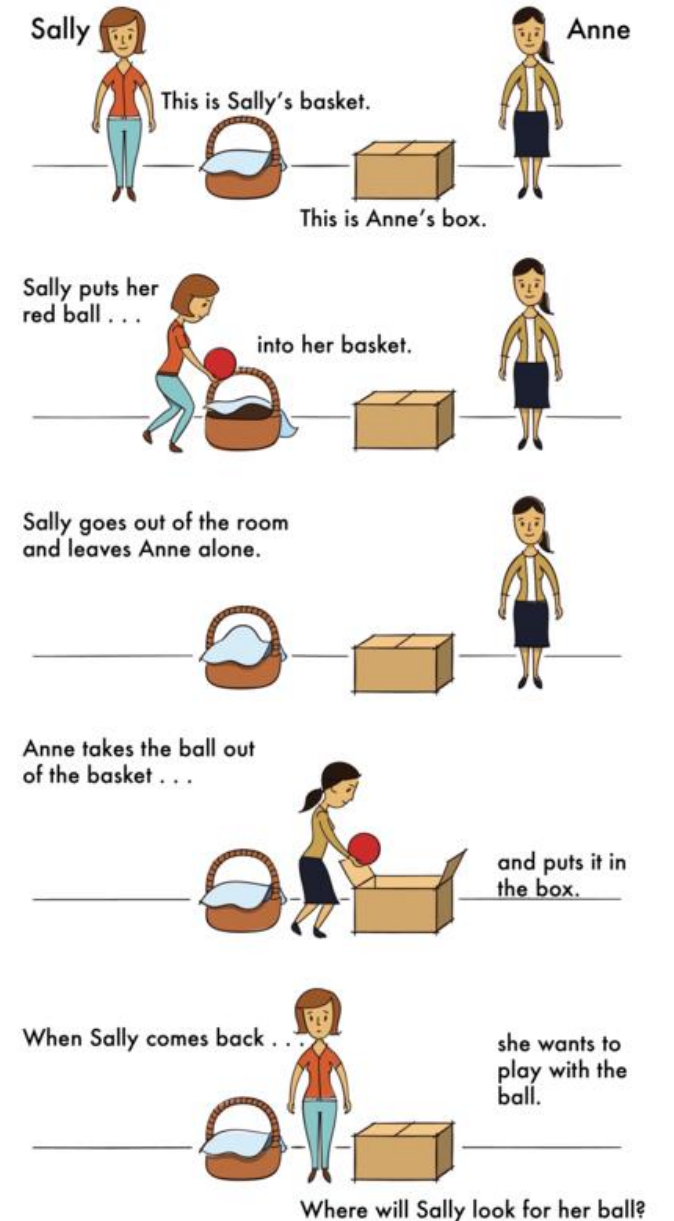
Theory of Mind (ToM):

Understanding that others can think and experience the world, just like you

People can know things that you don't, and vice versa

Clinicians often test ToM using the [Sally-Anne Test](#)

Non- or under-development by age 3 is an indicator of Autism Spectrum Disorder (ASD)



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

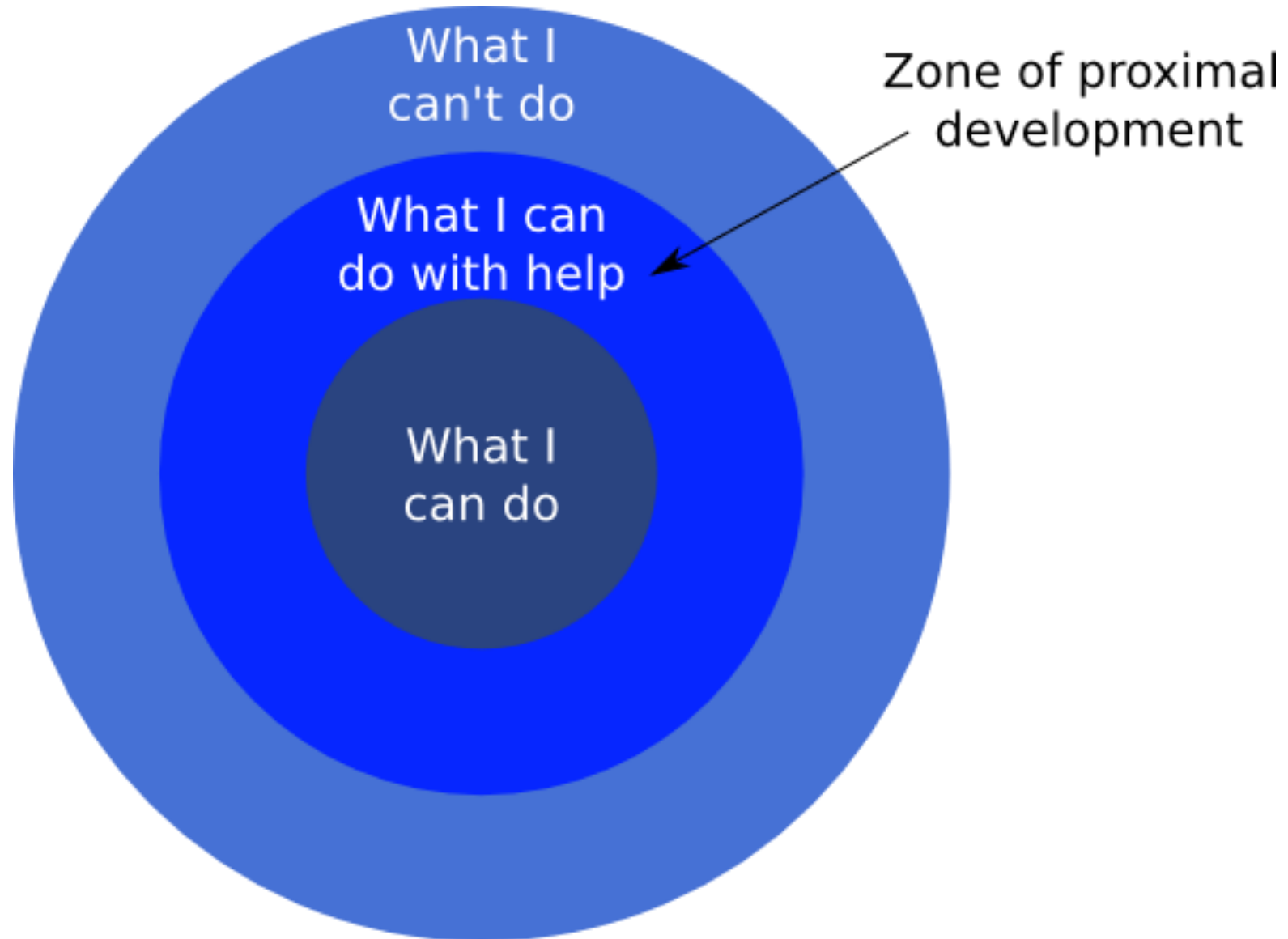
Scaffolding

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



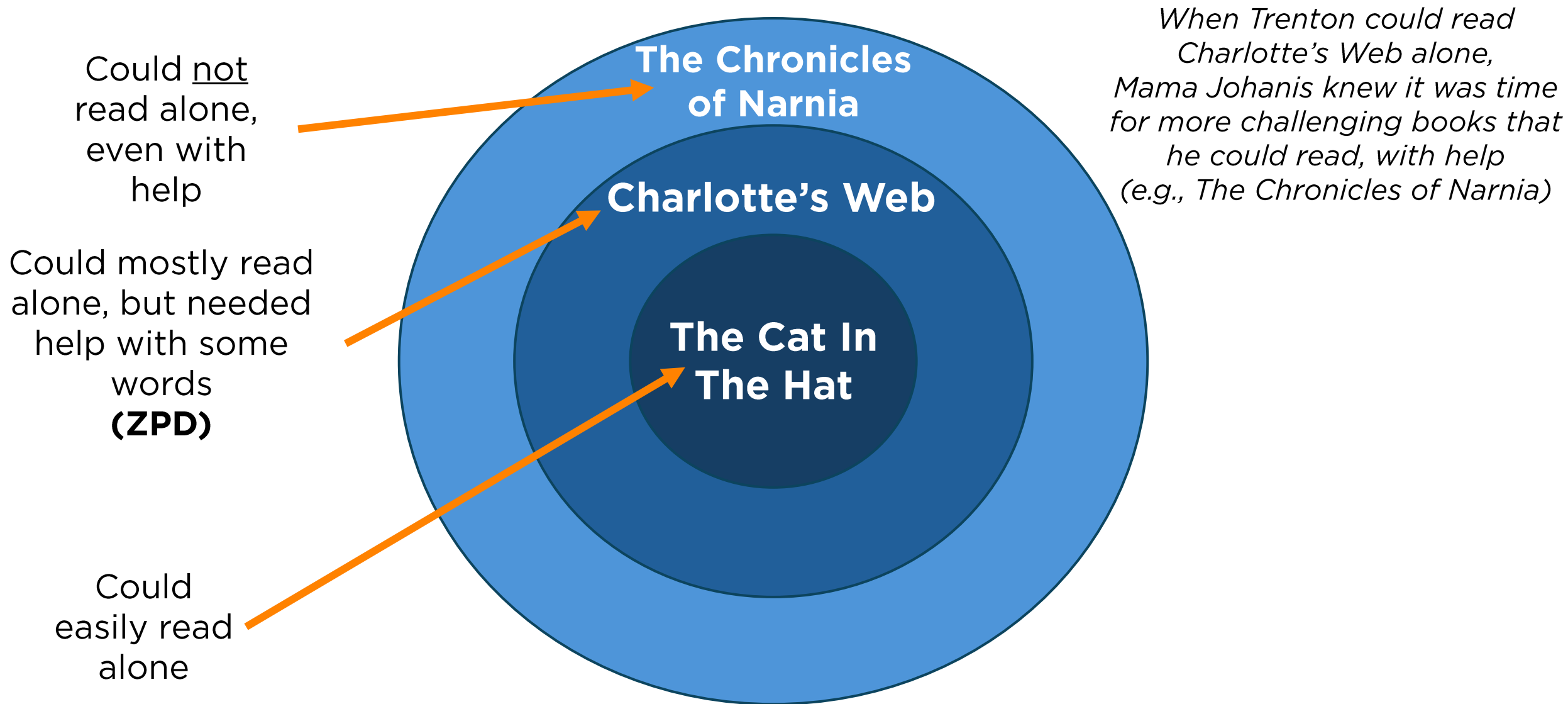


Children best develop skills when adults provide the right amount of help





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



Trenton, circa 2001



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



Fine Motor
Friends



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



Genie



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



point
solutions

THE PLAN

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How did we do?



A champion is defined by
the adversity he overcomes.

Anderson Silva

quotefancy

For y'all:

Friday Quiz 4 is **Feb 21 <3**

Reflection Journal 4 due **Feb 23**

InQuizitive due **Feb 23**