

### Genetic and Evolution

Theory of evolution

mid 1800's, how the mind works, nonmaterial mind

Charles Darwin

natural selection and fitness

Natural selection is a theory developed through Darwin's observations of the fitness of species characteristics to its environment

mind = produce of the nervous system

evolution is a slow process

fitness = organisms that are going to survive

natural selection ability for a species to adapt to their environment, find food and water, and mate in order to stay alive long enough to pass on genetic traits favorable to that setting

### First Brain Cell

first brain cell: 700 mya

cell moving towards heat or light

starts getting collection of brain cells to work together and produce basic brain function

first brain cell: 250 mya

first primate brain: 7 mya

### Evolutionary Adaptation

survival adaptation	reproductive adaptation	intra-sexual competition	inter-sexual selection
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### Evolutionary Adaptation (cont)

obtain food for yourself	passing on genes to the next generations	passing on genes with a greater frequency due to their association with greater mating success	in this process if member of one sex are attracted to certain qualities in greater numbers, simply because their possessor mate more often
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physical traits	some genes less useful, but are needed for reproduction	males competing with other males to win female over	female can select the winner
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camo	make an animal more desirable to the opposite sex	pressure on males	which one has the better genes/traits
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example: peacock lowers their rate of survival but attract female

not always a physical deal

example: satin bird



By kateleschyshyn

[cheatography.com/kateleschyshyn/](http://cheatography.com/kateleschyshyn/)

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