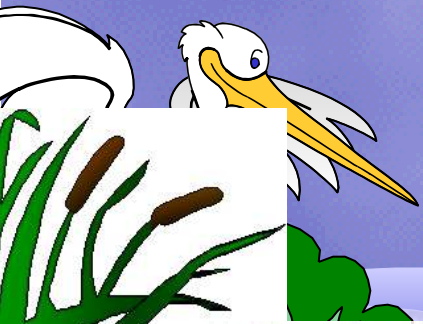


**Introducing**

**ecology**



# Ecology Ecology

the study of the relationships between  
biotic and abiotic factors in  
environments

**eco** (G) root home, abode

**log, -o, y** (G) suffix study of

**ecotourism**

**climatology**

# Ecosystem

includes all **abiotic** and **biotic** factors in one particular environment

**Biotic Factors**

the living parts of an ecosystem

**Abiotic Factors**

the nonliving parts of an ecosystem

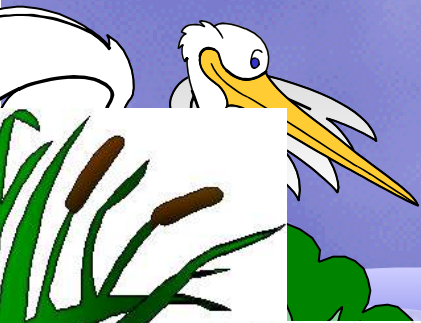


# **B**iotic Factors

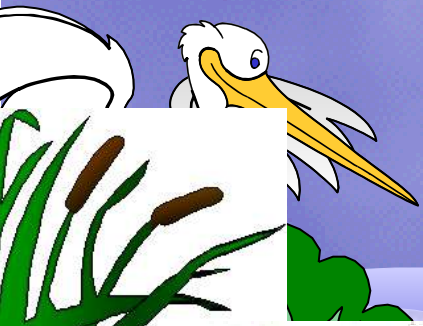
include plants, animals, fungi,  
microorganisms

**bio(s), bio(t)** (G) root life

**biofeedback**



# Examples of Biotic Factors

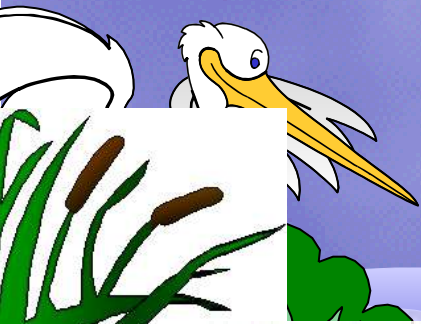


# **A**Abiotic Factors

**include air, water, soil, temperature, wind,  
source of energy (usually sun)**

**a, an(G) prefix not, without**

**a**musia

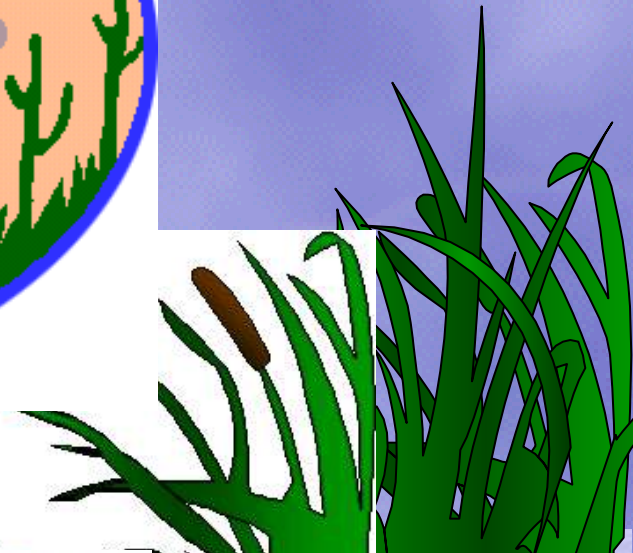
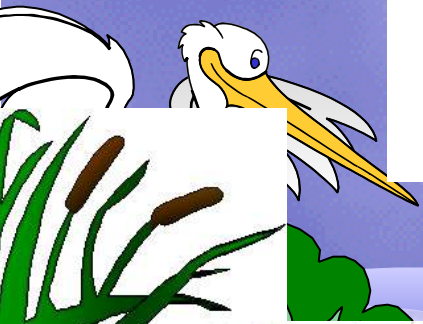
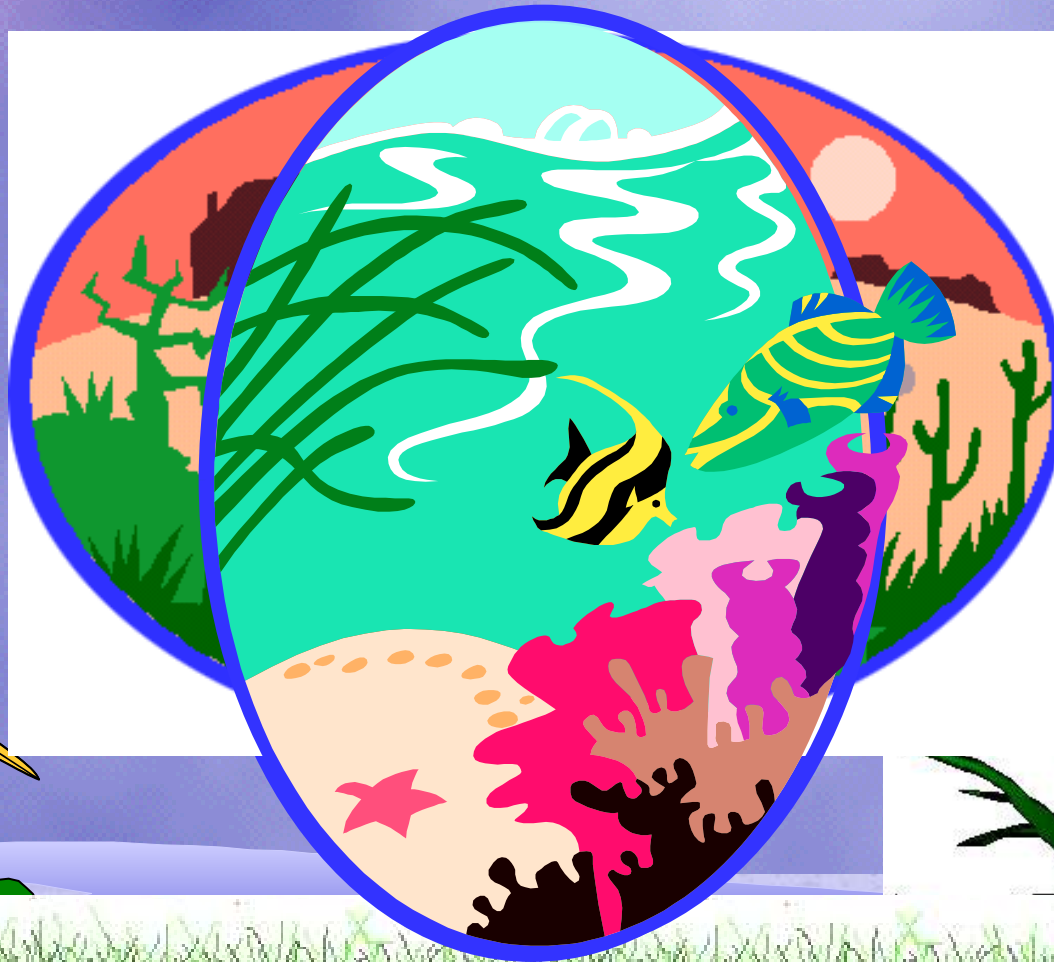


# Examples of Abiotic Factors



# Examples of Ecosystems

## Coral Reef in Belize





# Ecosystems

do not necessarily have clear boundaries due to  
**biotic and abiotic changes**

can change daily as things move from one  
ecosystem to another

**Biotic**

migration, seed  
dispersal

**Abiotic**

flood, erosion,  
drought

# Biotic Factors

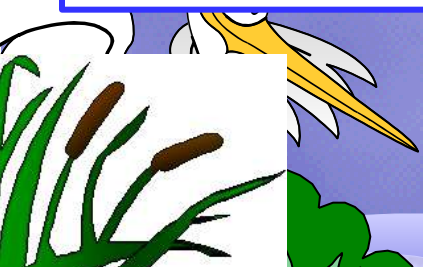
**interact with each other in complex ways**

**such as**

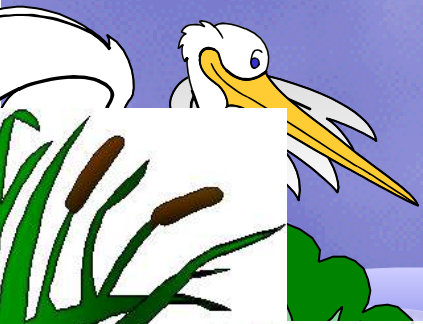
**parasitism  
mutualism  
competition**

**also interact with abiotic factors in the ecosystem**

**dependent upon water, minerals, temperature, light**

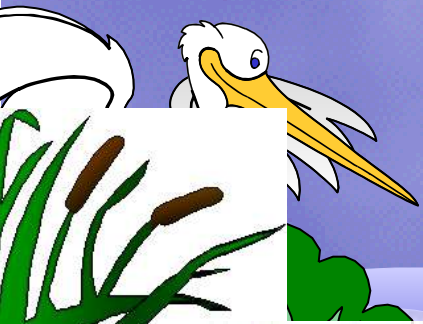


# Biomes



# Biome

a major regional or global biotic community, a **super ecosystem**, defined chiefly by the dominant forms of plant life and the prevailing climate



# Major Biomes of the World

**desert**

**grassland**

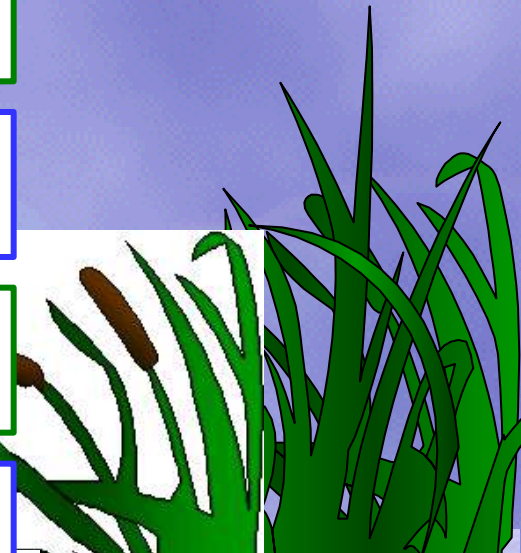
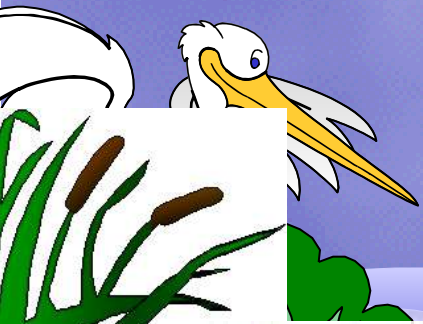
**tropical rain forest**

**deciduous forest**

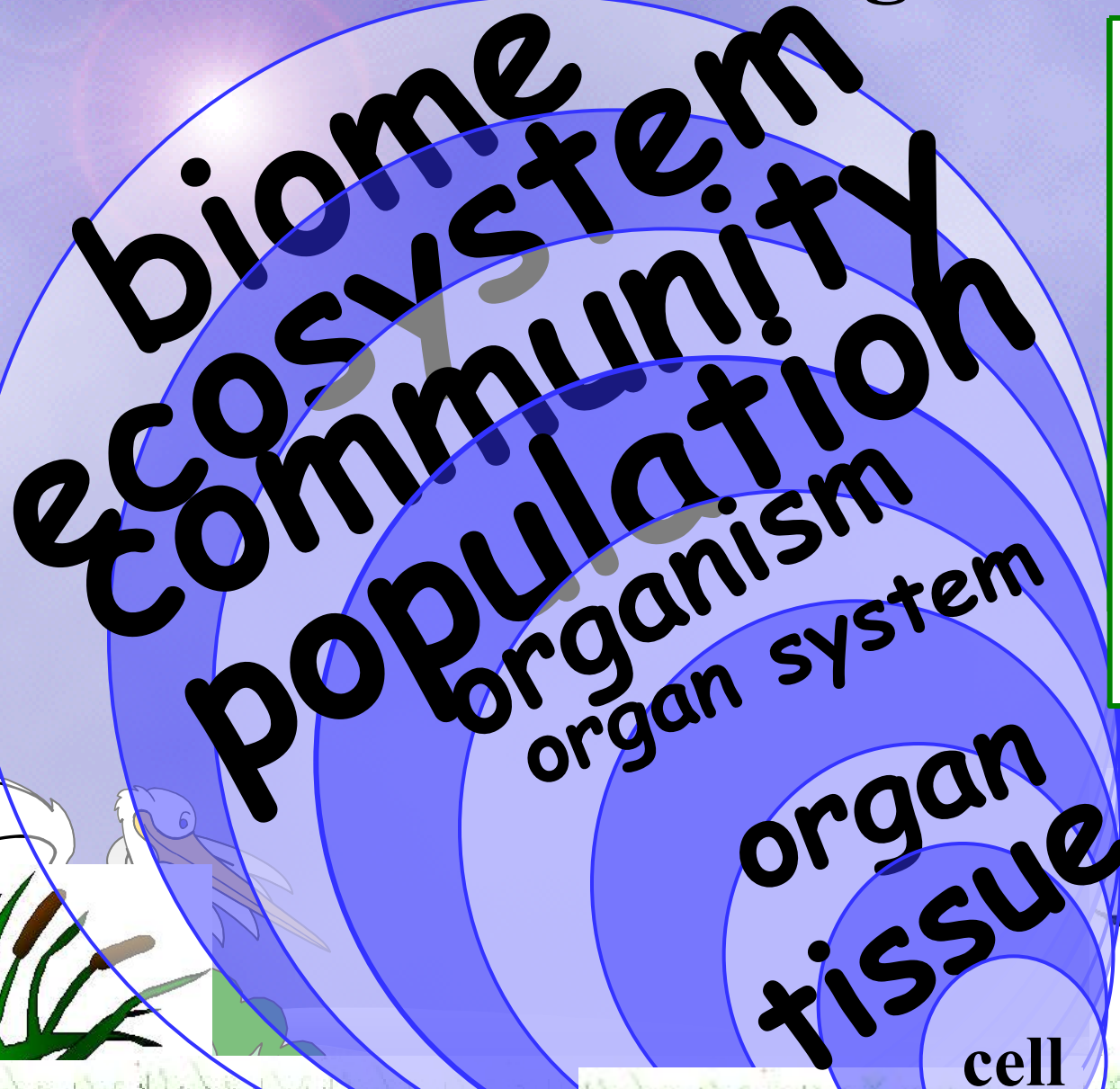
**coniferous forest**

**tundra**

**ocean**



# Levels of Organization



large region  
with typical  
plants and  
animals that  
includes several  
ecosystems



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