

# Cochineal



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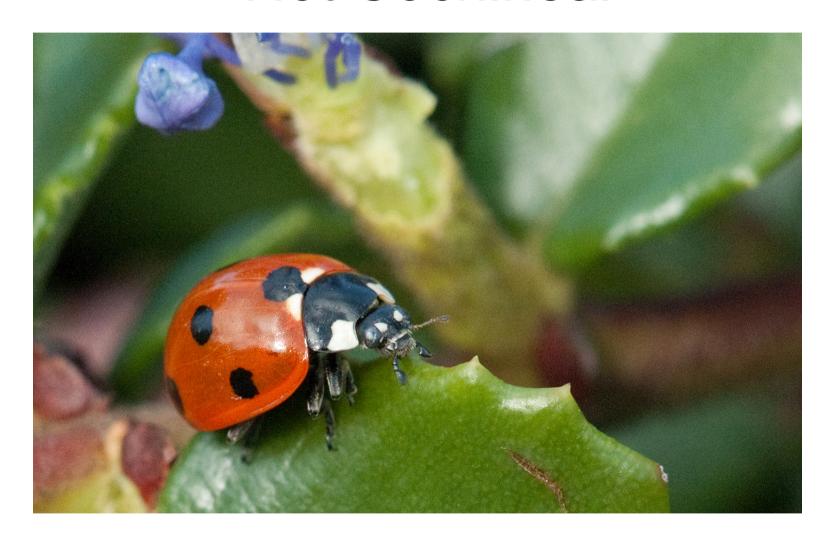




#### Cochineal



order Hemiptera (a bug) related to aphids



order Coleoptera (a beetle) eats aphids

# Cousins?





# Cousins?





# 300-350 million years





#### Cicada



#### Cicada

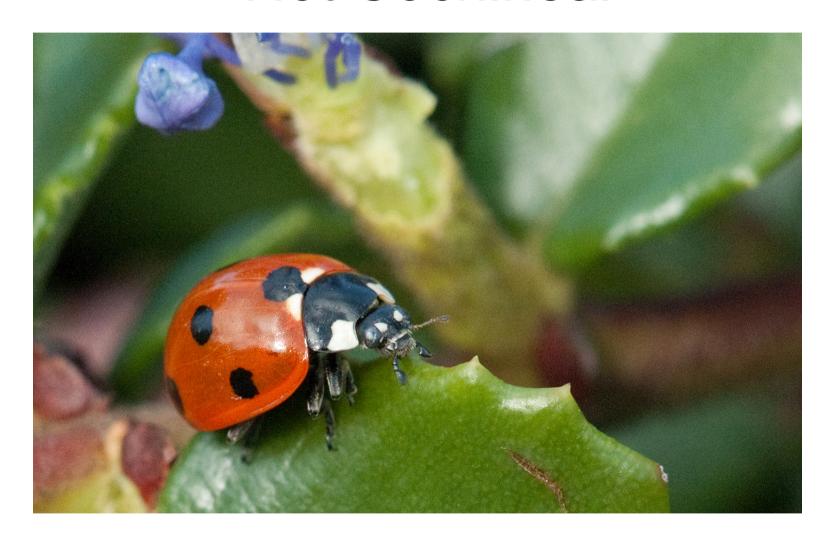


Cicada (winged adult)



# Cicada (nymph)





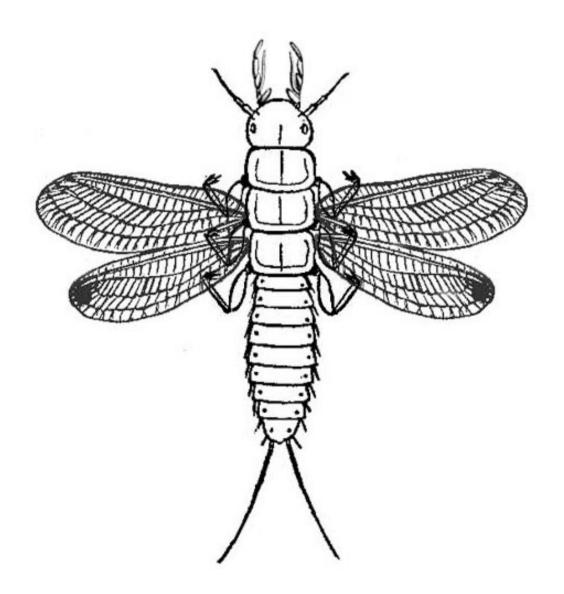
order Coleoptera (a beetle) eats aphids



order Coleoptera (a beetle) eats aphids



order Coleoptera (a beetle) eats aphids





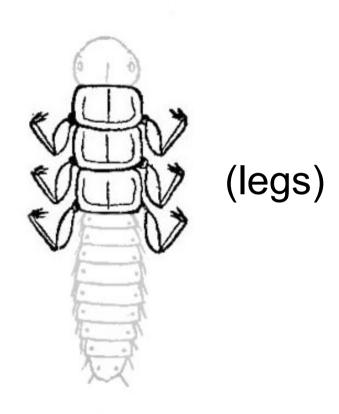
(a play in three acts)

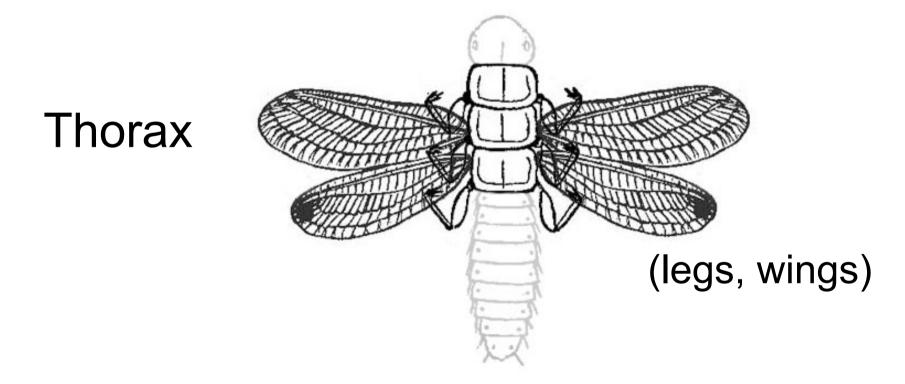
Thorax

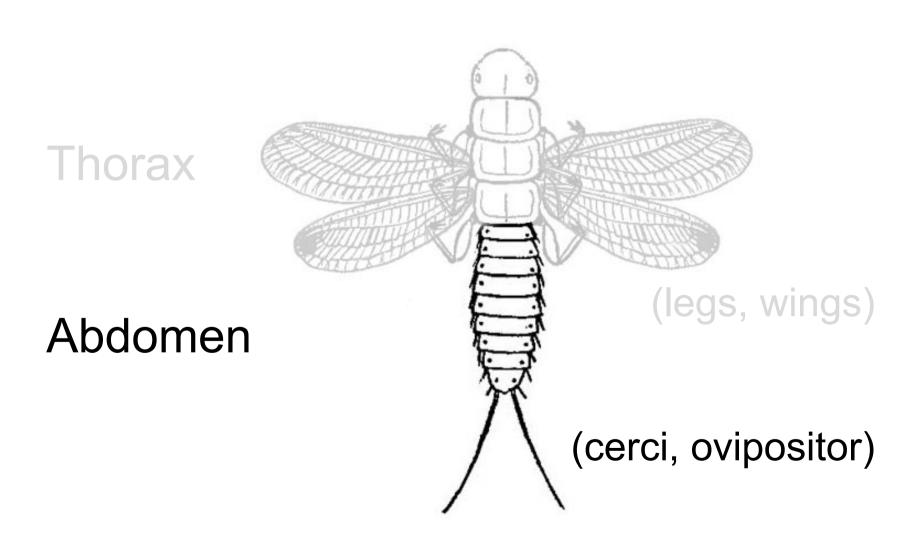


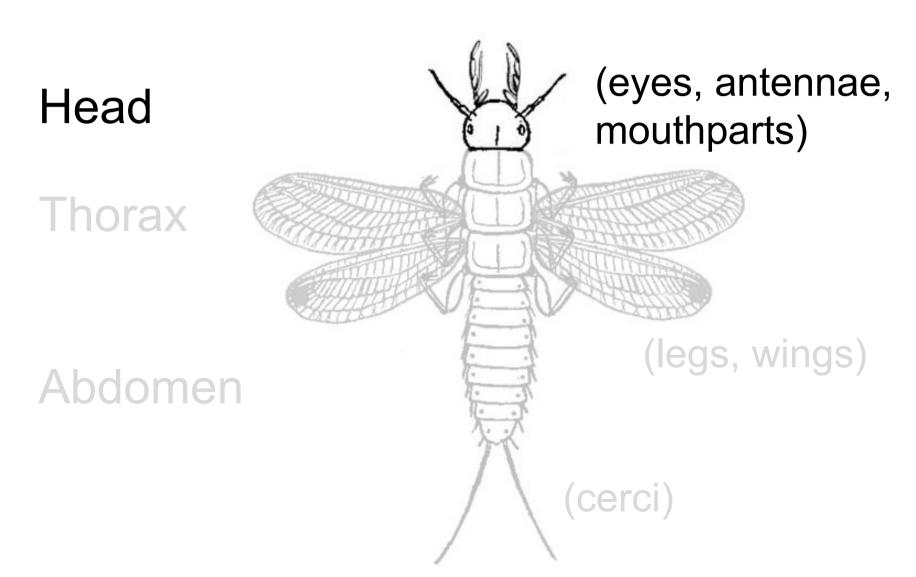
(a play in three acts)

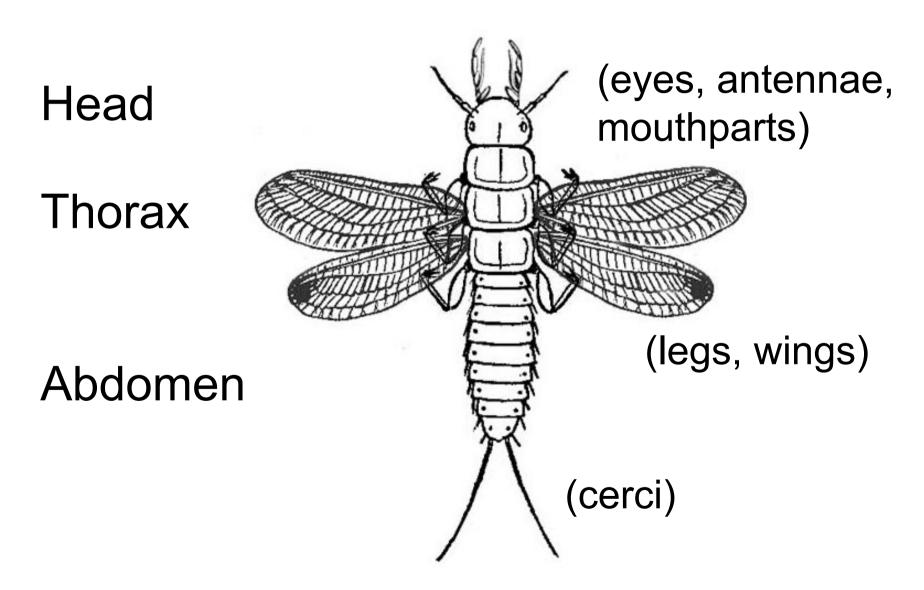
**Thorax** 











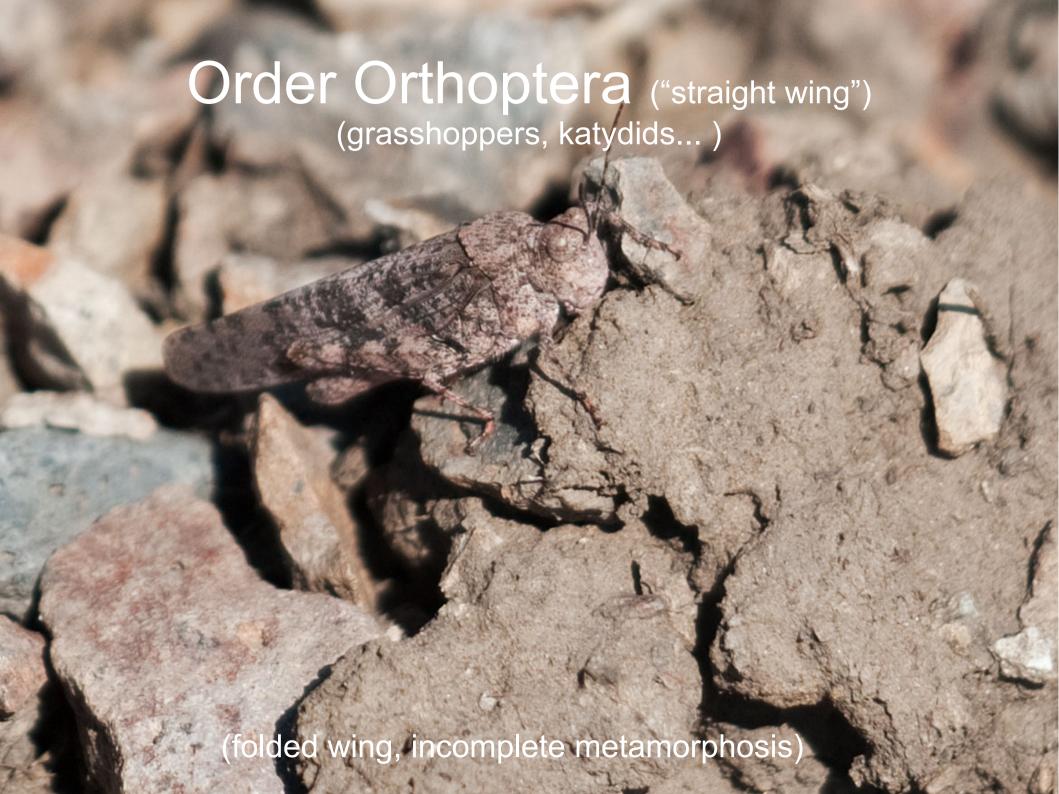
Order Ephemeroptera (mayflies)

(straight wing, incomplete metamorphosis)















# Order Orthoptera ("straight wing") (grasshoppers, katydids...)

(folded wing, incomplete metamorphosis)









(folded wing, incomplete metamorphosis)













# Order Coleoptera ("sheath wing") (beetles)







# Order Coleoptera ("sheath wing") (beetles)













# Order Diptera ("two wing") (flies)



# Order Diptera ("two wing") (flies)







# Order Lepidoptera ("scale wing") (moths, including butterflies)





### Order Hymenoptera ("membrane wing") (sawflies, wasps, ants, and bees)





























#### Order Hymenoptera ("membrane wing")

(sawflies, wasps, ants, and bees)



Small carpenter bee (Ceratina)



















