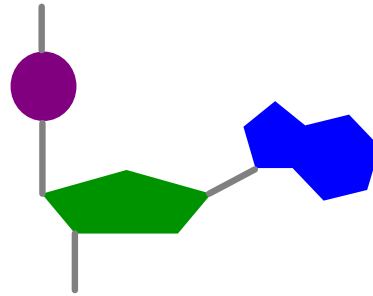
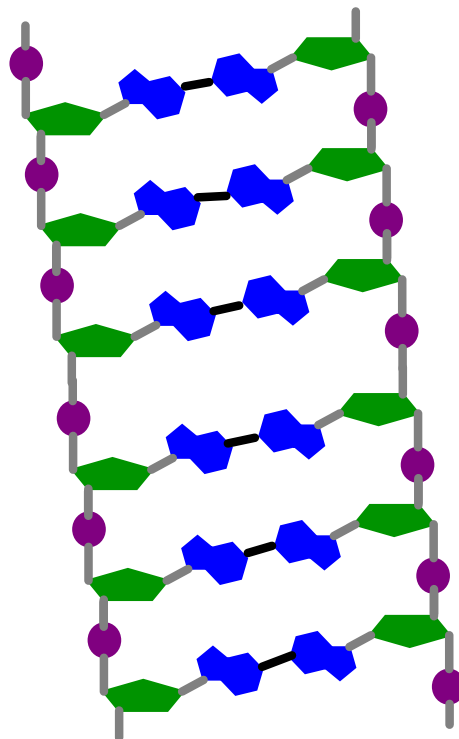


**Nucleotide-**  
**three parts a**  
**sugar, a base,**  
**and a**  
**phosphate**  
**group**

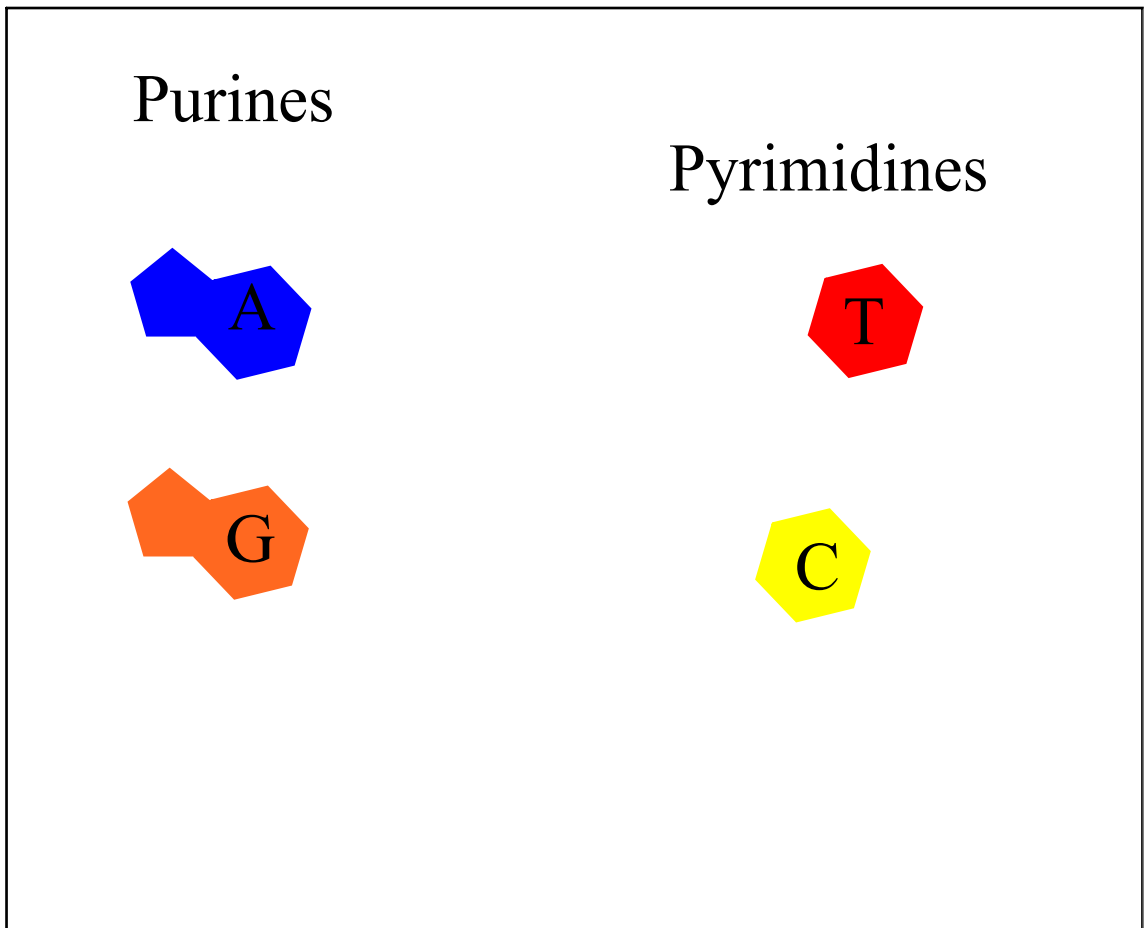
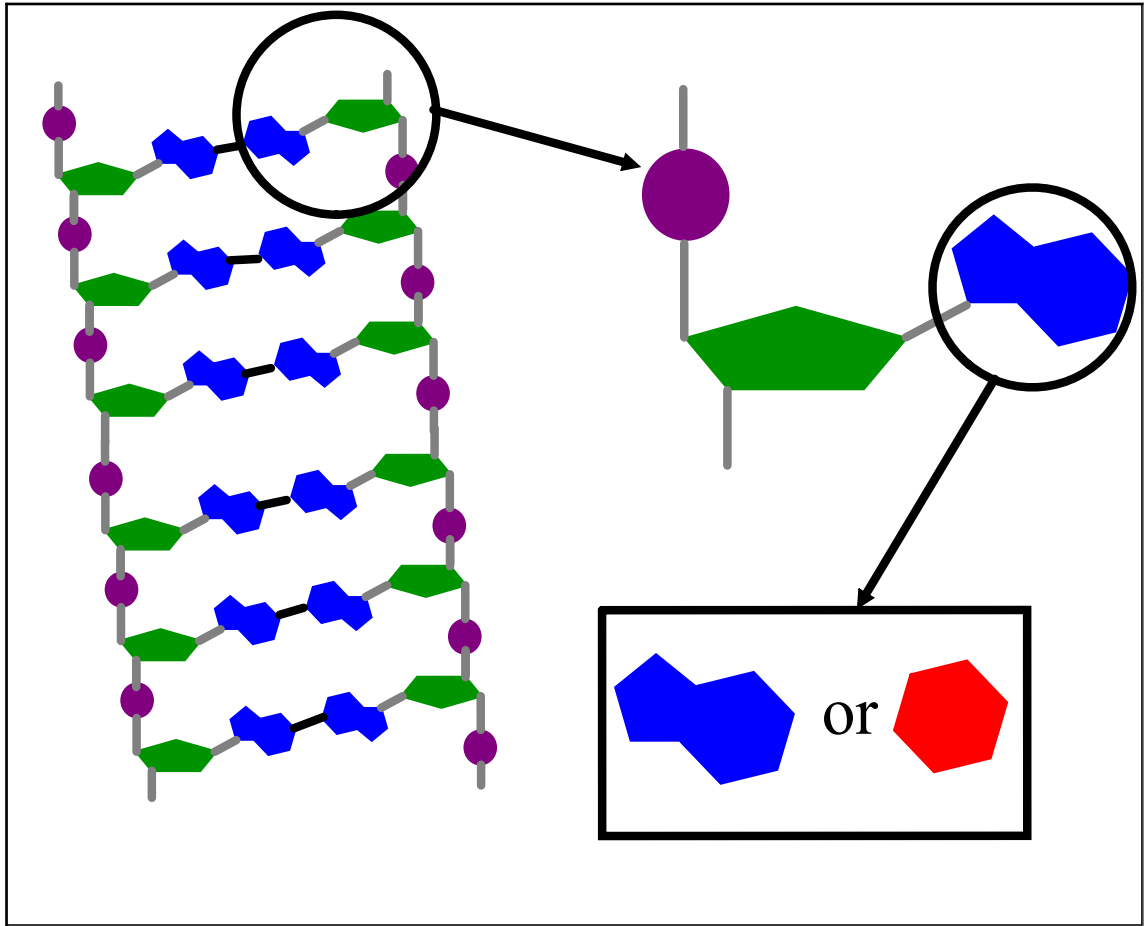


Sep 12 - 4:19 PM

**DNA**



Sep 12 - 4:18 PM



Erwin Chargaff

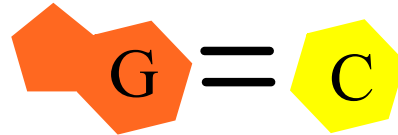
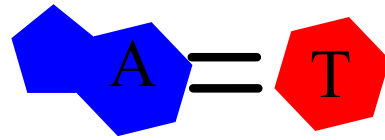
observed that  
there were

always as many

A as T and

always as many

G as C.



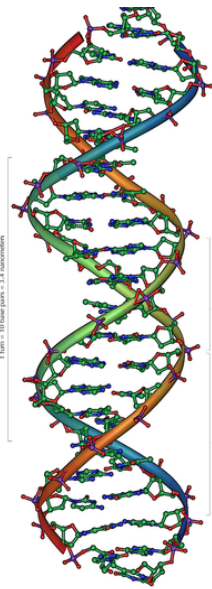
Feb 9 - 1:16 PM

Wilkins and  
Franklin through  
X-Ray

diffraction

discovered that  
DNA was a

tightly coiled  
helix

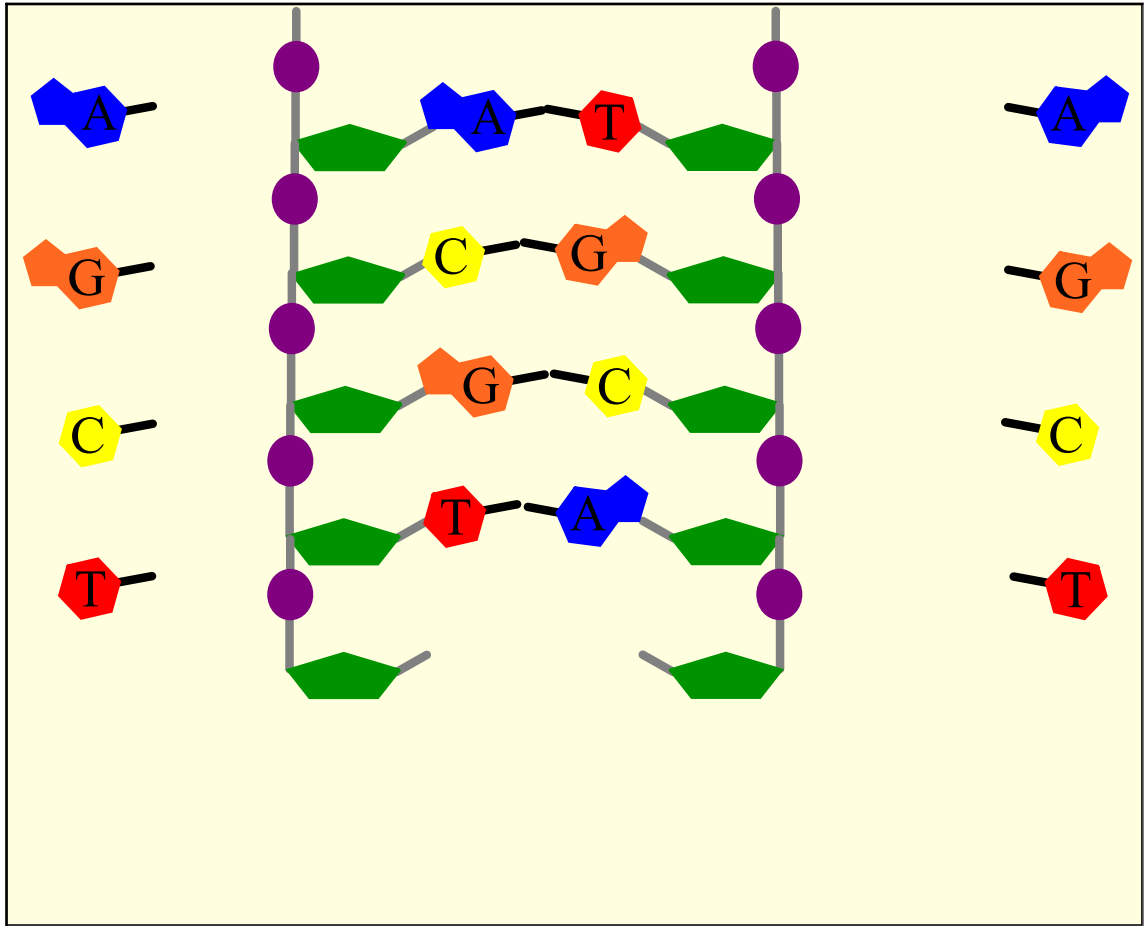


Double Helix-  
two strands  
twisted around  
each other

<http://en.wikipedia.org/wiki/DNA>

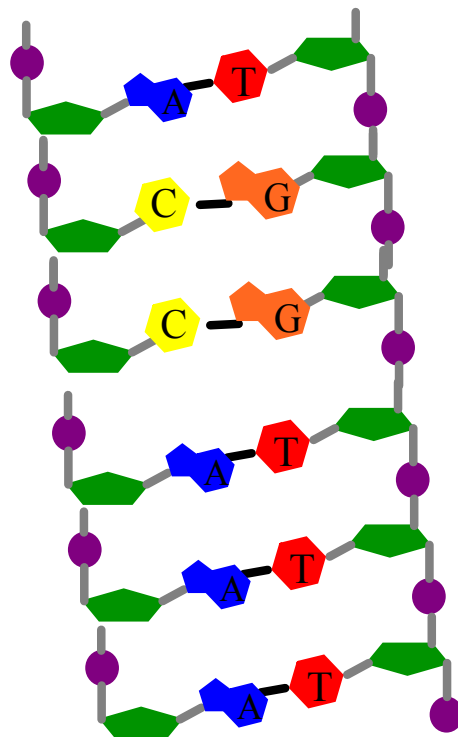


Feb 9 - 12:45 PM



Final

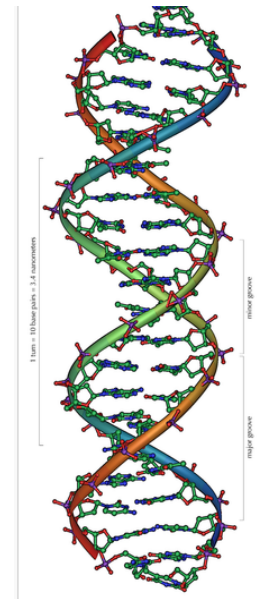
## Base-pairing Rules



Complementary



James Watson  
and  
Francis Crick



<http://en.wikipedia.org/wiki/DNA>

<http://www.time.com/time/time100/scientist/profile/watsoncrick.html>

Feb 9 - 12:41 PM

Which one is its complimentary pair?

TGAACTAGC  
ACTTGATCG

G-C

A-T

AGTAGTACC

GCTAGTTCG  
TGAAC TAGC

Feb 9 - 1:24 PM

# DNA Replication

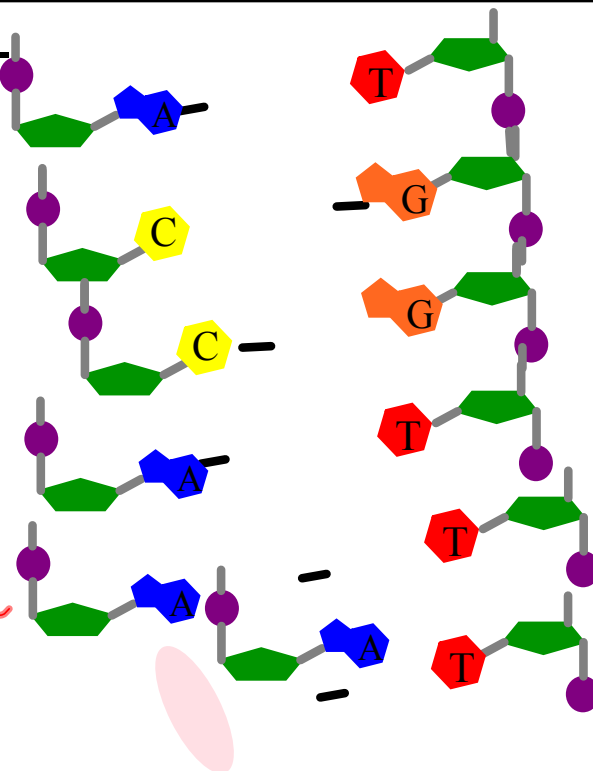
<http://www.ncc.gmu.edu/dna/repanim.htm>



Feb 9 - 1:33 PM

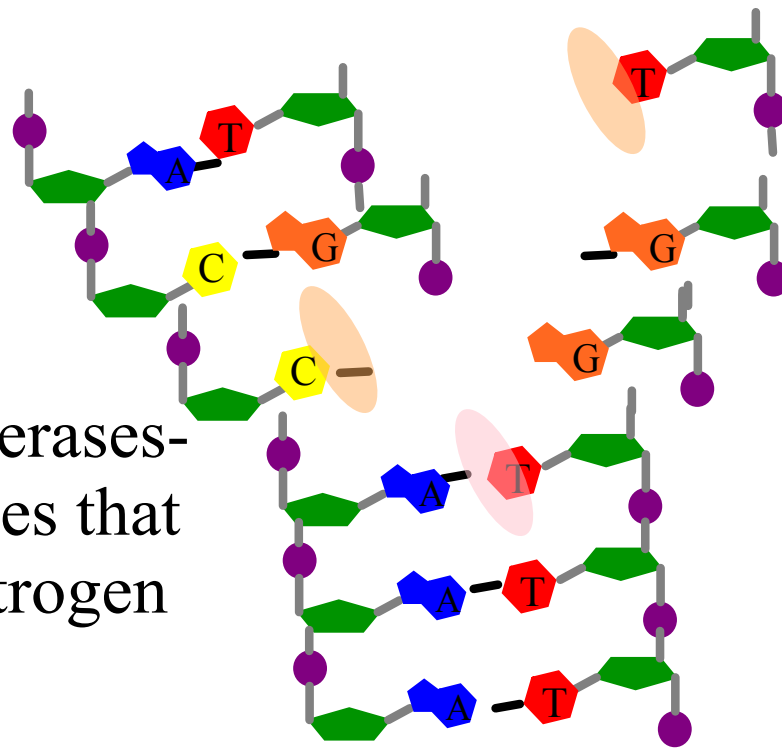
DNA Helicase-  
enzymes that  
open the  
helicase

think  
zipper

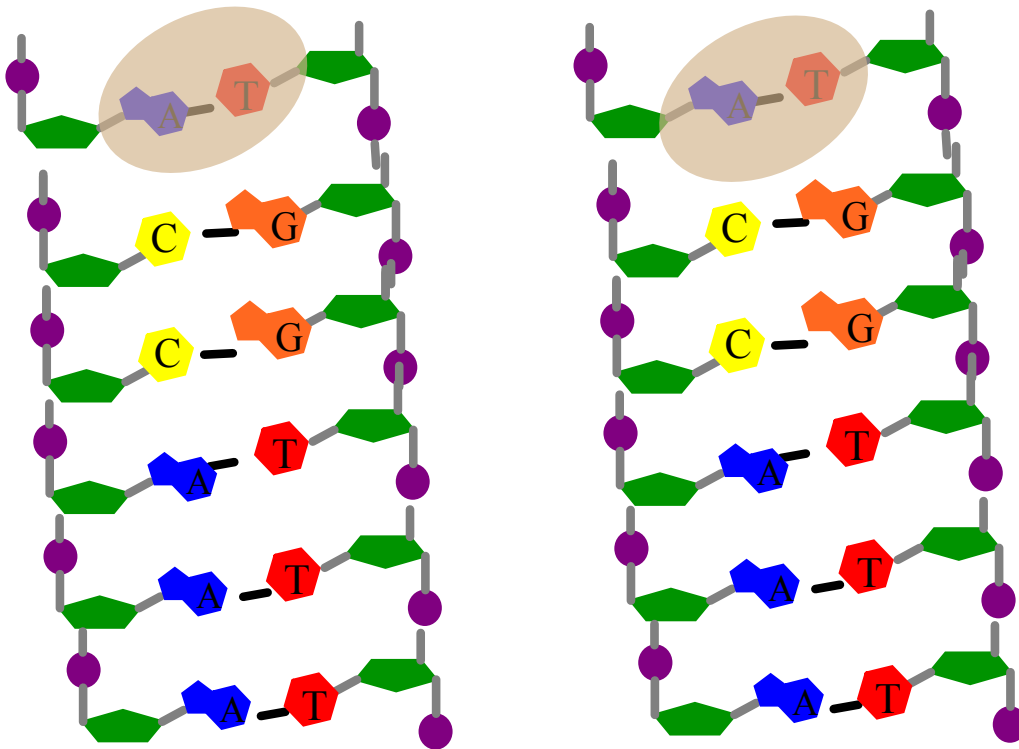


Feb 9 - 1:39 PM

DNA  
Polymerases-  
enzymes that  
add nitrogen  
bases.



Feb 9 - 1:39 PM



Feb 9 - 1:45 PM

due Monday

~~Deoxyribonucleic acid~~  
rib

Mar 7-12:42 PM