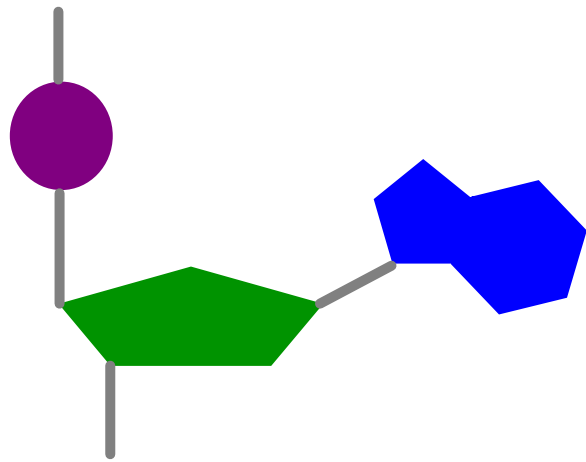
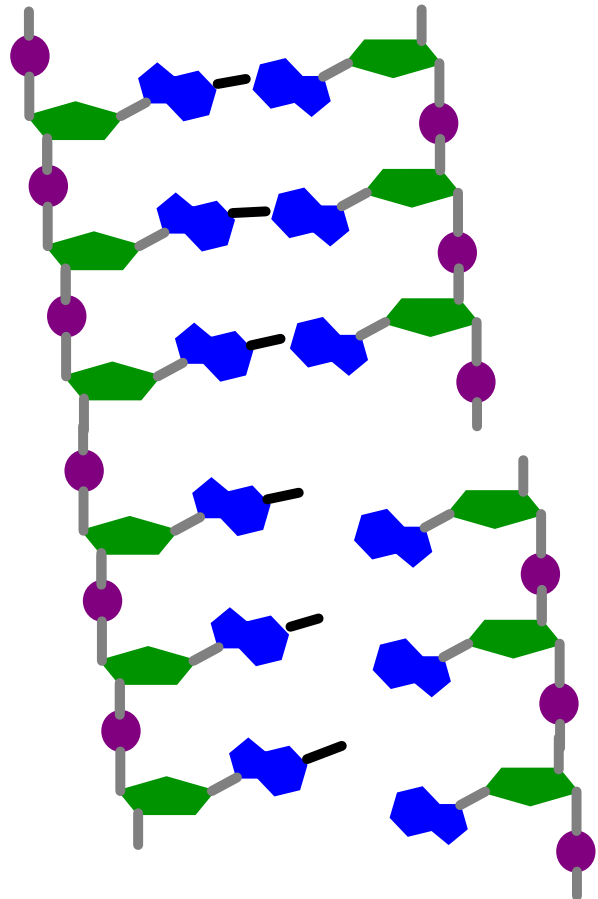
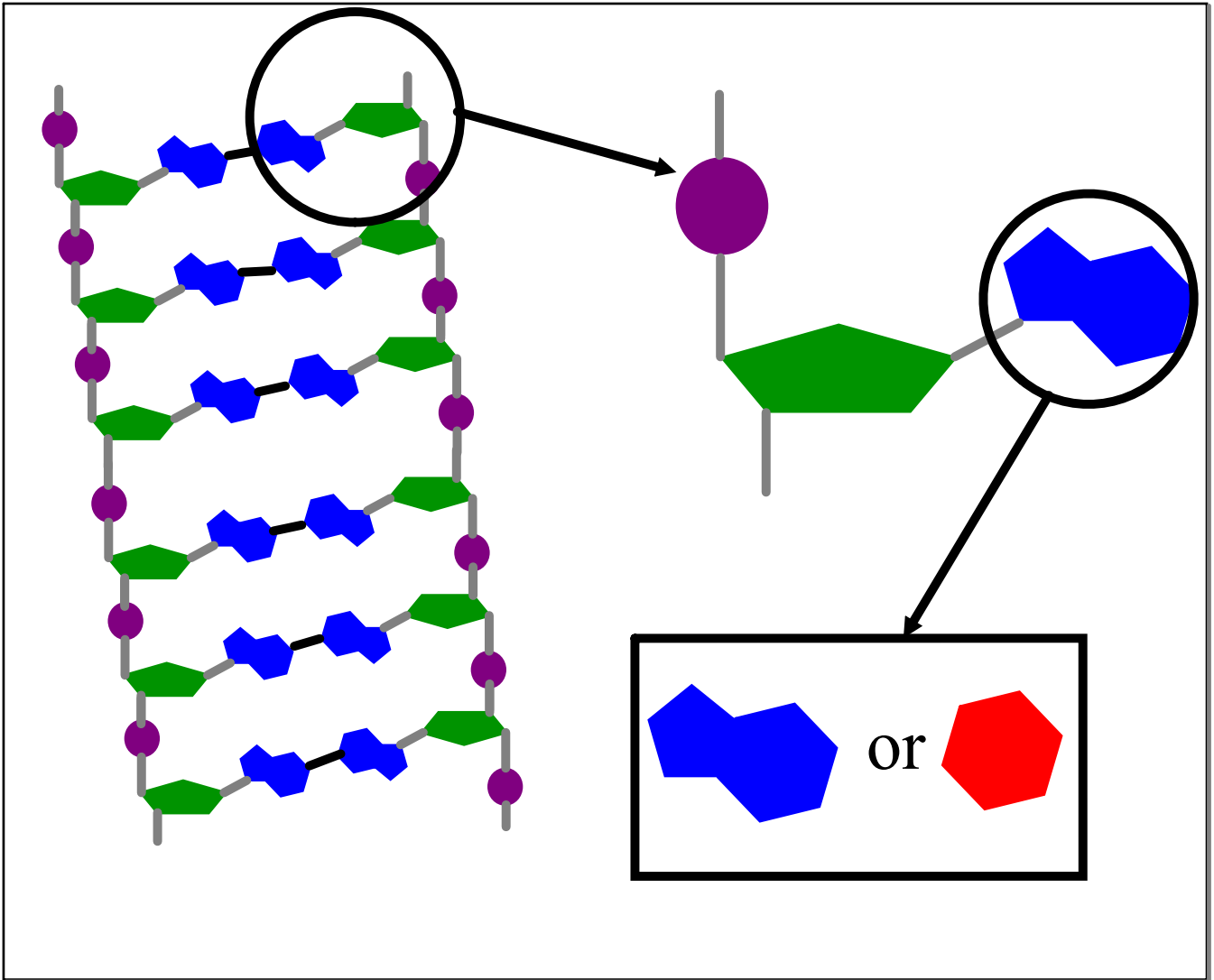


**Nucleotide-**  
**three parts a**  
**sugar, a base,**  
**and a**  
**phosphate**  
**group**

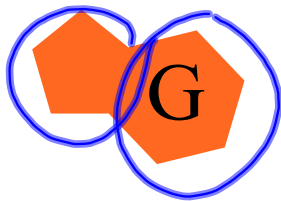
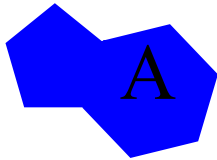


# DNA

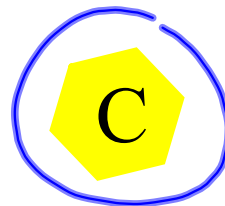
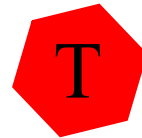




## Purines



## Pyrimidines



Erwin Chargoff

observed that

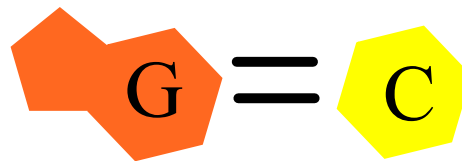
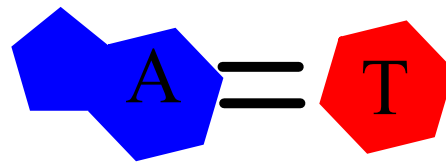
there were

always as many

A as T and

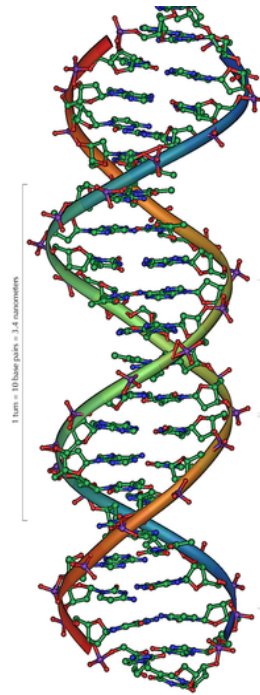
always as many

G as C.



Wilkins and  
Franklin through  
X-Ray

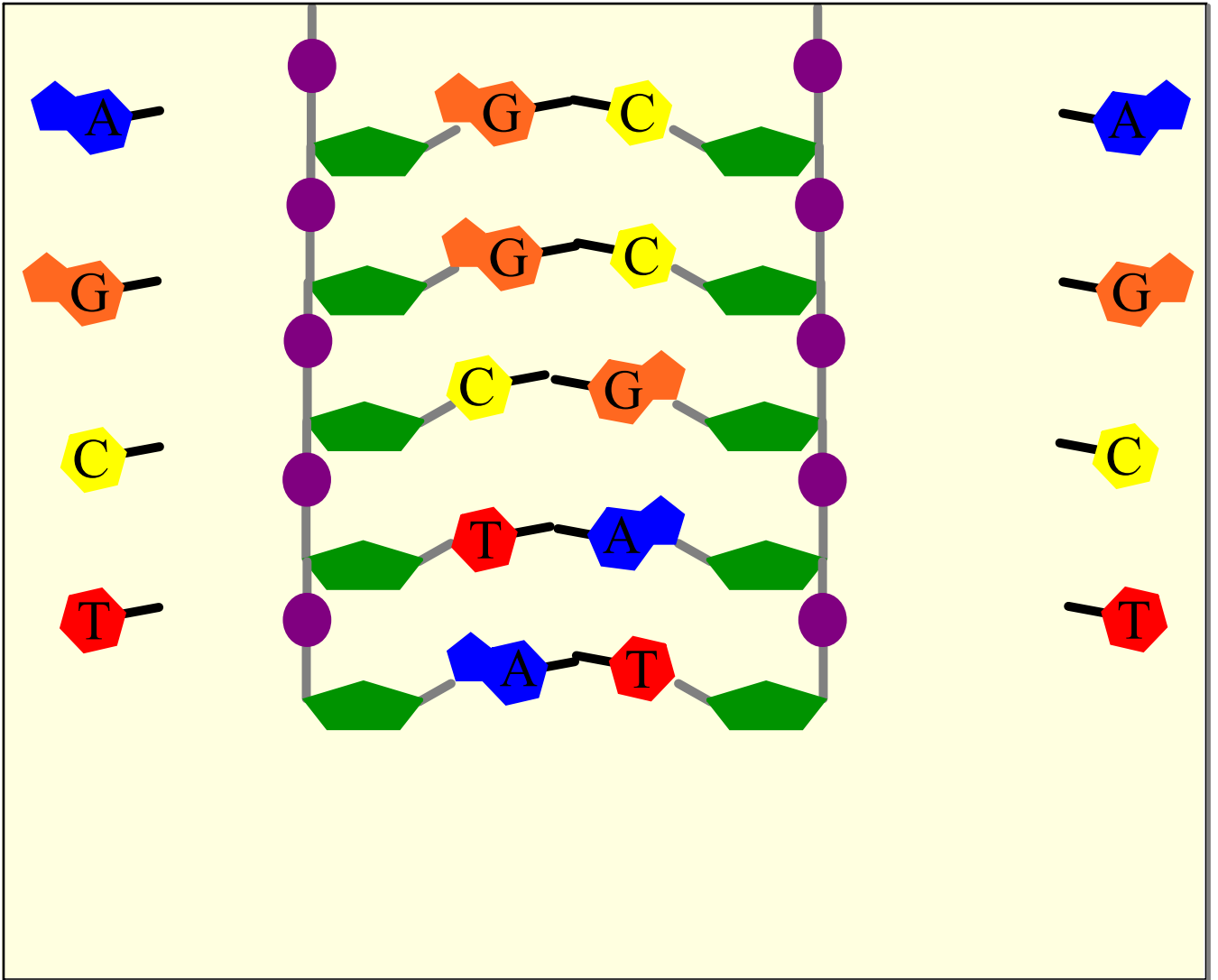
discovered that  
DNA was a  
tightly coiled  
helix



Double Helix-  
two strands  
twisted around  
each other

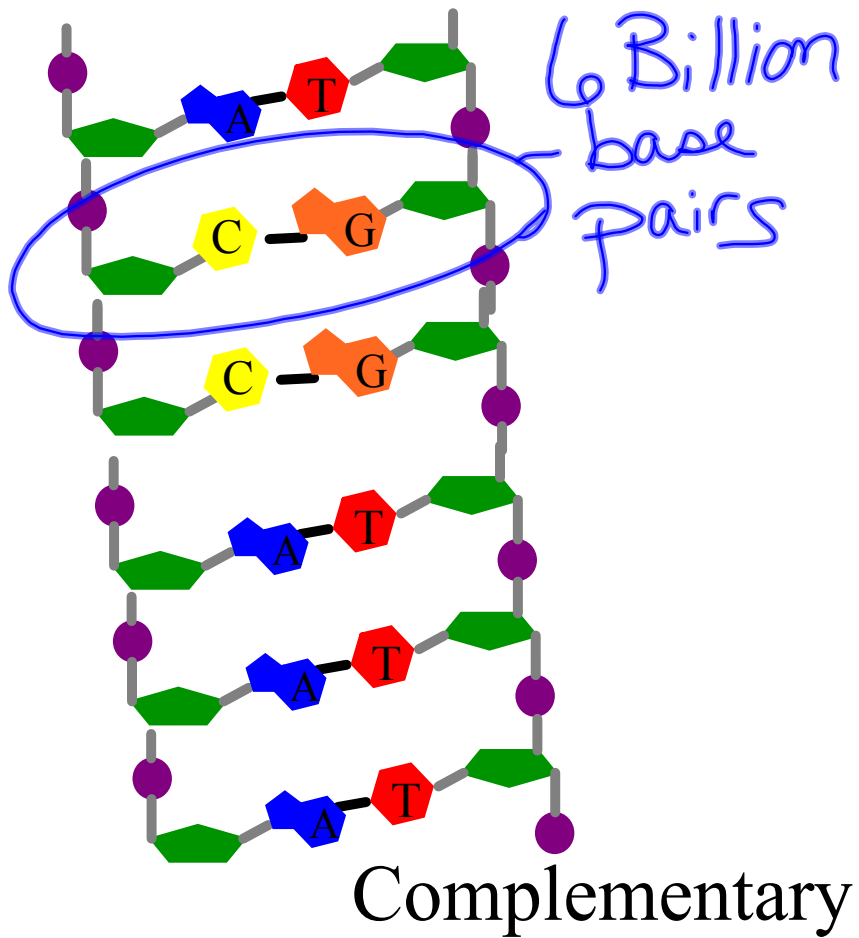
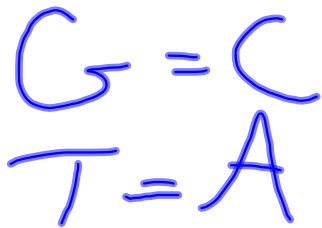
<http://en.wikipedia.org/wiki/DNA>





Final

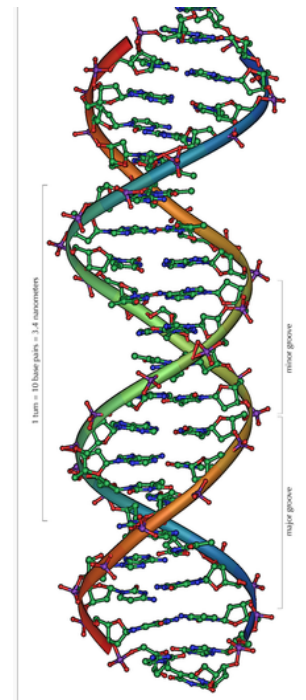
# Base-pairing Rules





CORBIS

# James Watson and Francis Crick



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

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

Which one is its complimentary pair?

TGAACTAGC  
ACTTGATCG

AGTAGTACC

GCTAGTTCGC  
TGAACTAGC