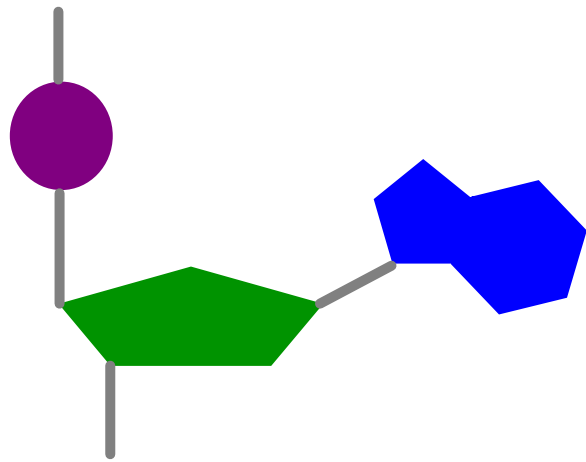
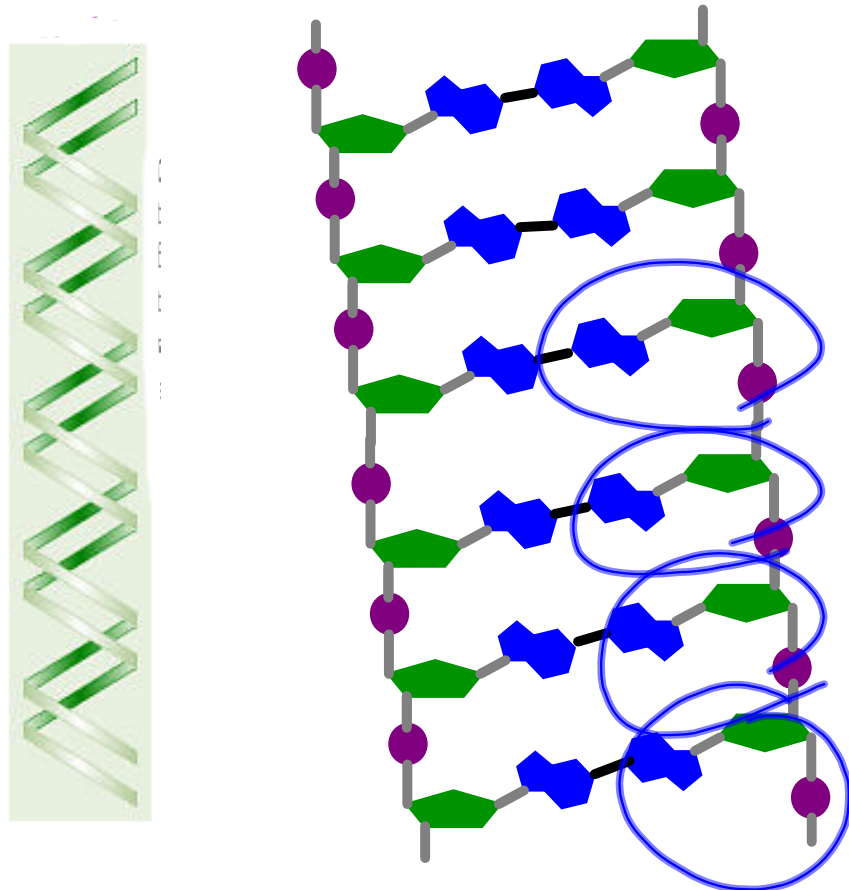
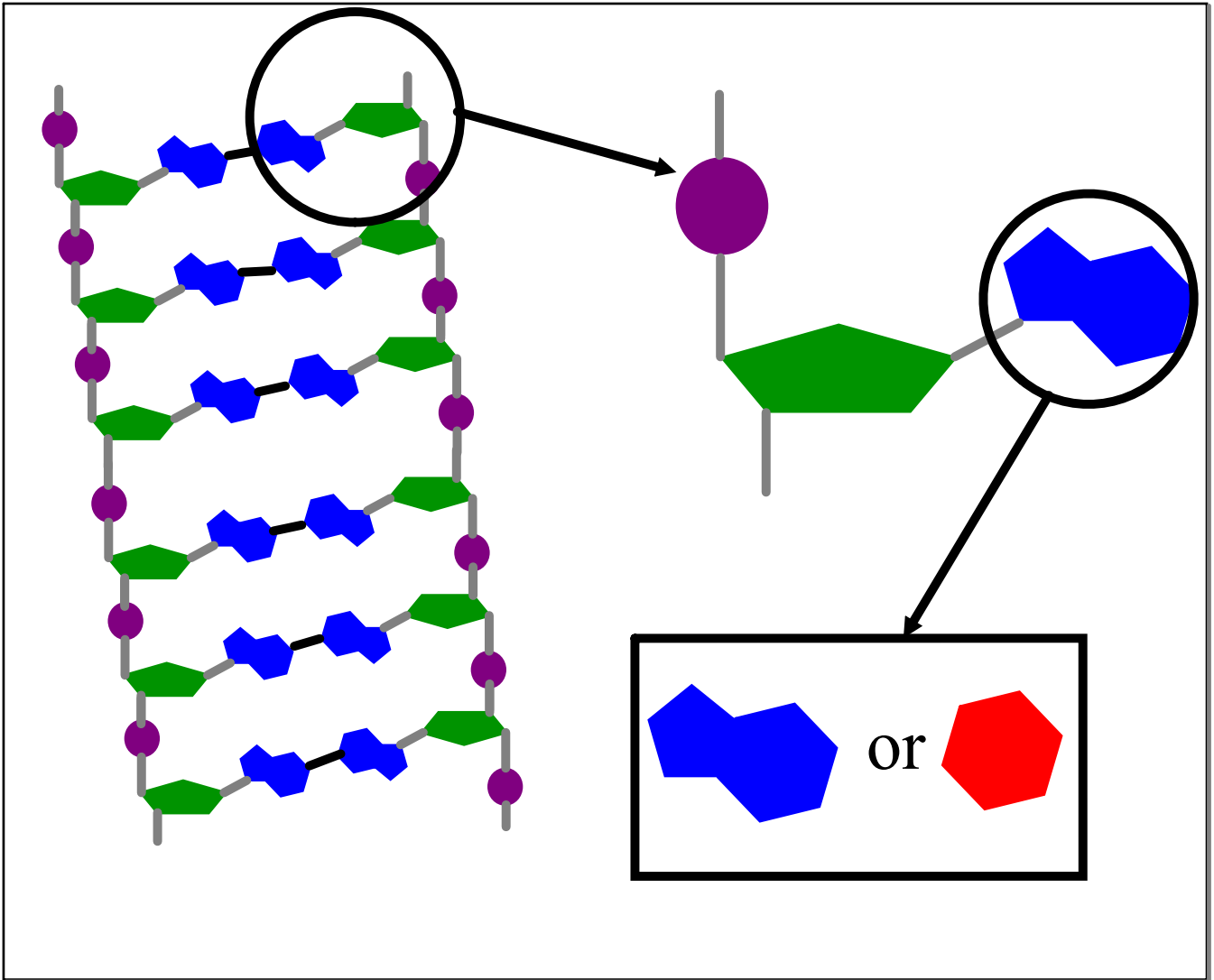


Nucleotide-
three parts a
sugar, a base,
and a
phosphate
group

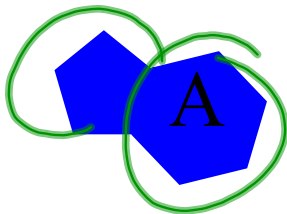


DNA

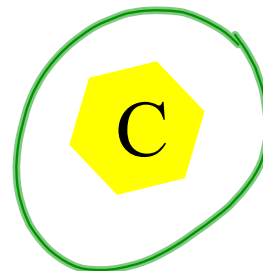
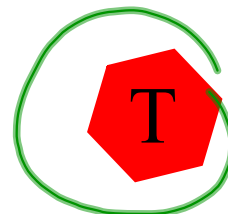




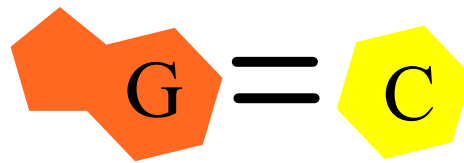
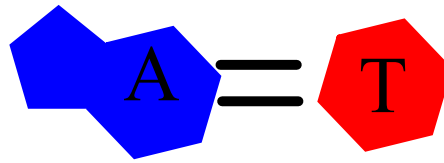
Purines



Pyrimidines

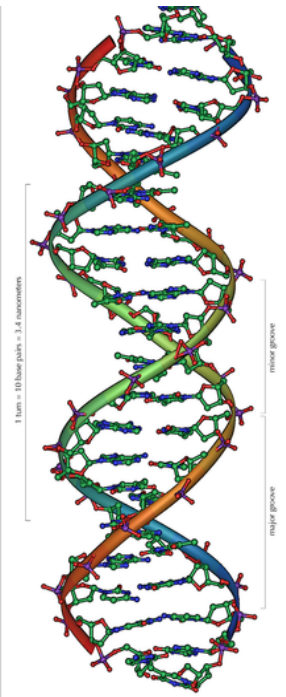


Erwin Chargoff
observed that
there were
always as many
A as T and
always as many
G as C.



Wilkins and Franklin through X-Ray

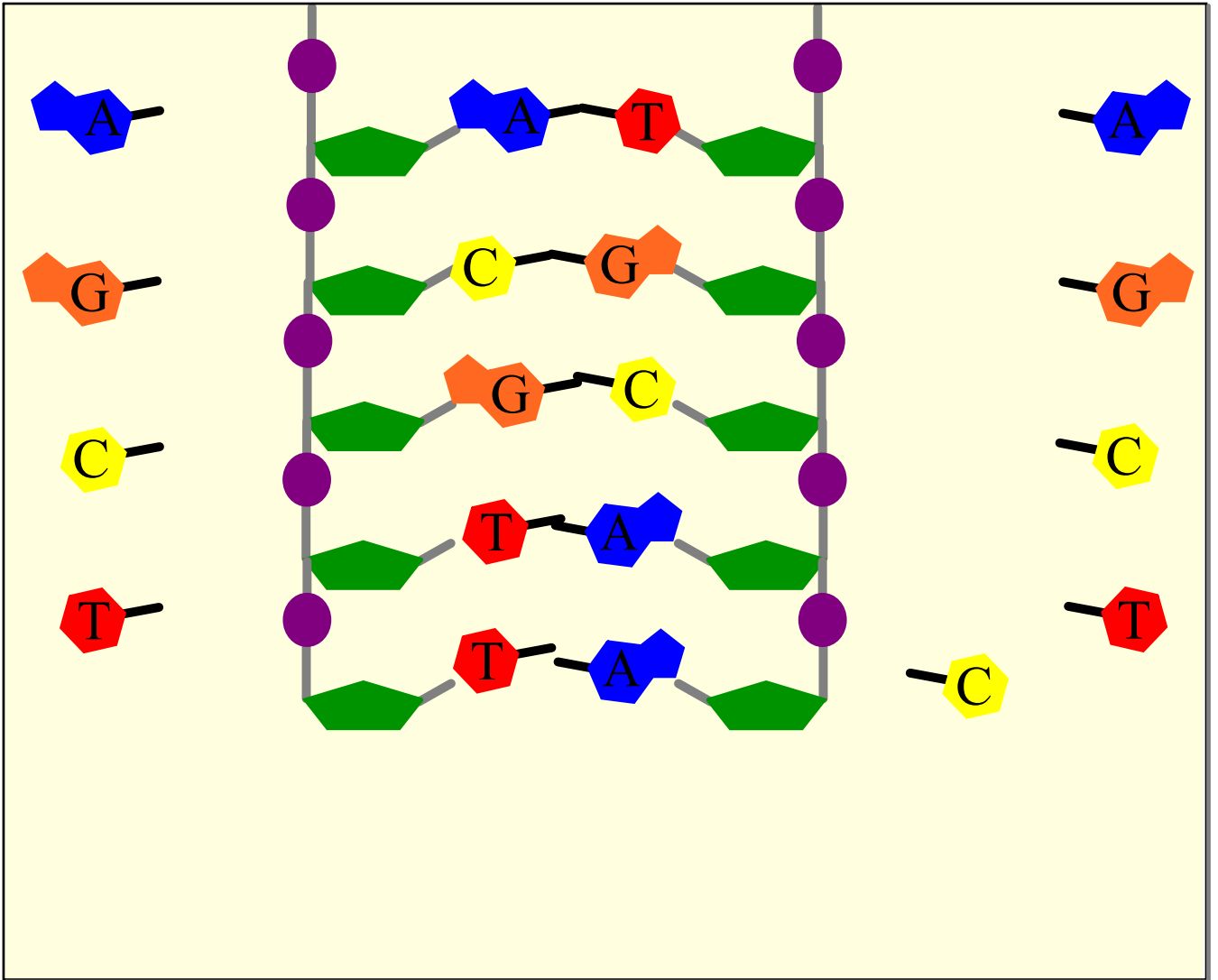
discovered that DNA was a tightly coiled helix



Double Helix-
two strands
twist/wrapped around
each other

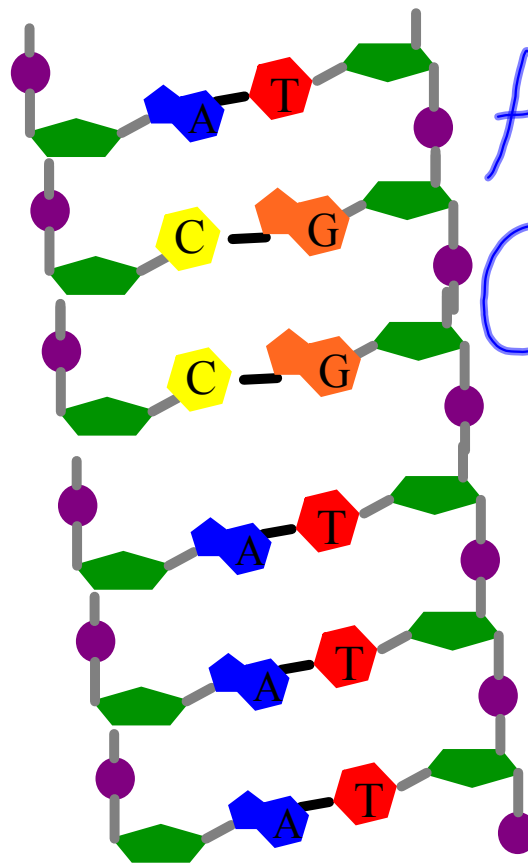
<http://en.wikipedia.org/wiki/DNA>





Final

Base-pairing Rules



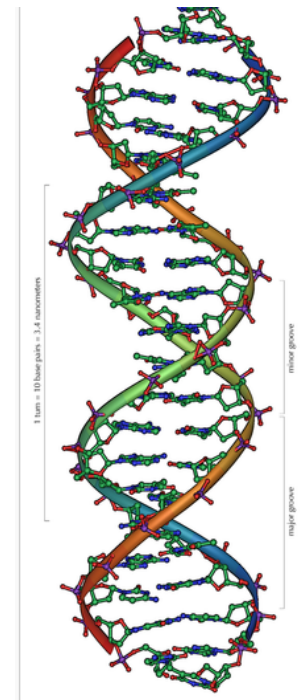
A-T
C-G

Complementary



James Watson and Francis Crick

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



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

Which one is its complimentary pair?

TGAACTAGC
ACTTGATCG

GCTAGTTCG
TGAACTAGC

AGTAGTACC