Define: nucleotide, nucleoside
- purine (fr pure + uric + N2 containing)
- pyrimidine (fr pyridine [fire] with single N) distilled fr bone oil...

phosphodiester linkages in backbone

Chargaff (1950s) found A=T and G=C, but %GC varied (p 245)
higher GC = higher melting
(Show melting/annealing curve, p 261-262)

Watson & Crick proposed lock and key, two H bond for A:T, three for G:C