Let $\cG\$ be a class of graphs with some structure, for example being decomposable or having some other properties of a class like the planar graphs. We are interested in the behaviour of the random graph $R_n\$ sampled uniformly from the set $\cG_n\$ of graphs in $\cG\$ on vertex set $[n]\$, in particular in the probability that $R_n\$ is connected. A natural approach has been to show first that $\cG\$ is smooth (that is, $n \cG_{n-1}//\cG_n$ tends to a limit as $n \$ below of the discuss some general results following this approach, and recent work which does not require smoothness.