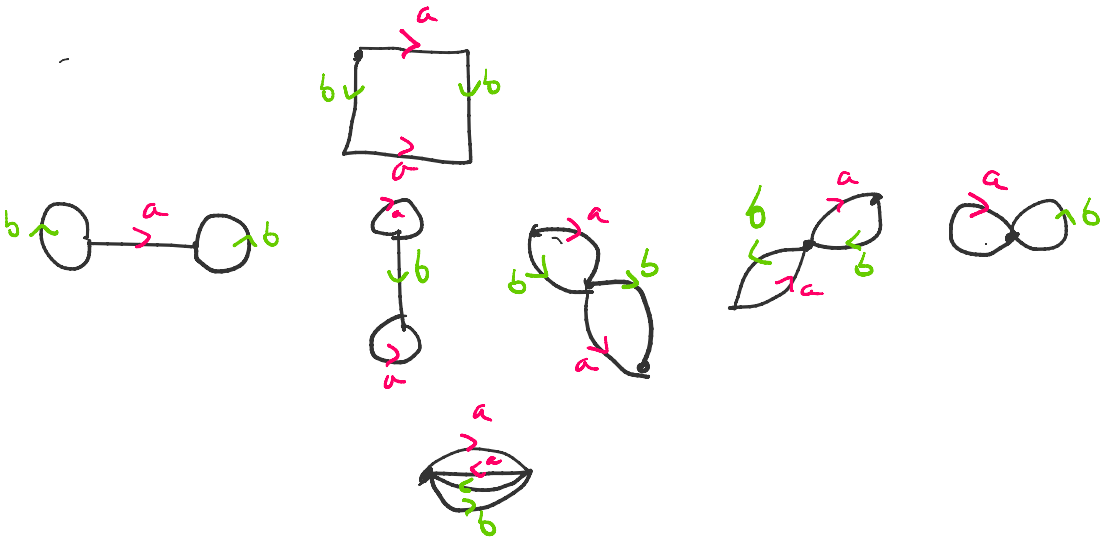
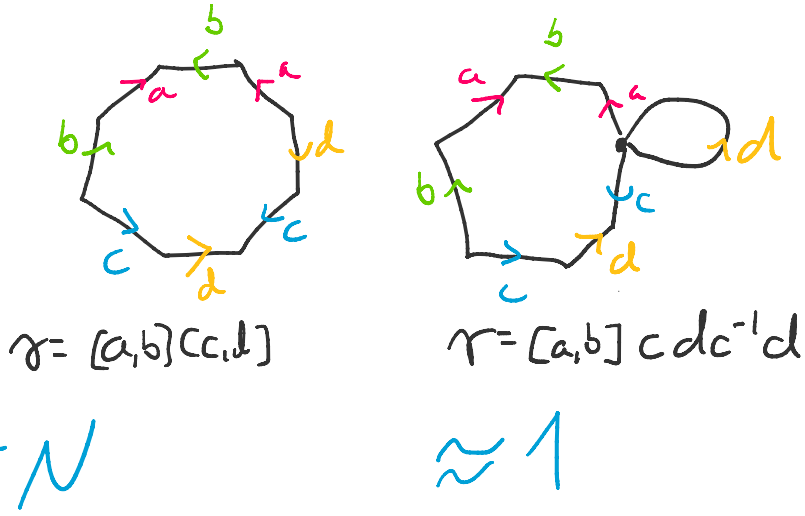
Figures

Sunday, May 17, 2020 12:57

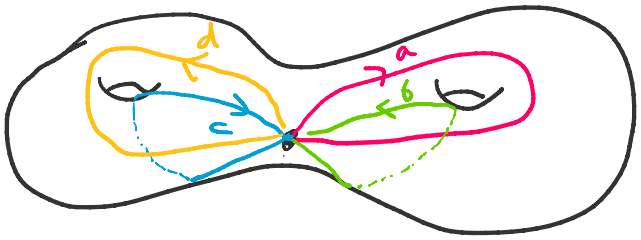
The 7 graphs describing the possible paths of a fixed point of the word [a,b]



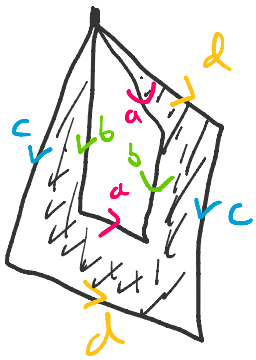
Two graphs which give the "wrong" order of contribution for surface groups (namely, not N^{χ})



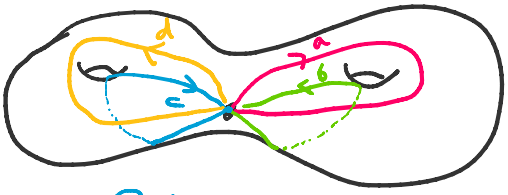
In our model for random surfaces, they are all degree-N covering spaces of the following surface endowed with combinatorial structure:



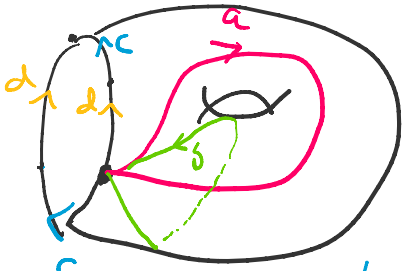
Four examples to "pieces of surfaces" (more precisely: surfaces with boundaries) which are in play when analyzing the element [a,b] in the surface group Γ. Each of these has contribution of $N^{\chi(Y)} + O(N^{\chi(Y)-1})$.



$\chi = 0$



$\chi = -2$



$\chi = -1$

$\chi = -1$

"Core surfaces" ↪ Stallings' core graphs