A linklessly embeddable graph $G$ is maxnil if it is not a proper subgraph of a linklessly embeddable graph of the same order. The property of being maxnil is, in a way, analogous to the property of being maximal planar. While it is well known that every maximal planar graph with $n$ vertices has $3n - 6$ edges, an analogous statement for maxnil graphs does not exist. In this talk we discuss properties of maxnil graphs, and we present two new families of maximal linklessly embeddable graphs on $n$ vertices: one family with $3n - 5$ edges for all $n \geq 10$, and another family with $n$ vertices and $m < \frac{25n}{12}$ edges for all $n \geq 13$. (Received September 08, 2020)