A petal diagram of a knot or link consists of a center point surrounded by $n$ non-nested loops; it represents $n$ strands of the link at various heights which all project onto the same center point. Though every knot has a petal diagram, as shown recently by Adams, extremely few links have petal diagrams. We tabulate all petal links of 2-7 components and examine the connection between petal links and simple graphs. (Received February 24, 2015)