The Borel chromatic number of a graph on a Polish space is the least number of colors needed to color its vertices by a Borel function. Kechris-Solecki-Todorcevic (1999) proved that the Borel chromatic number of a graph generated by a function is 1,2,3 or  $\omega$ . I will give a prove of it and I'm going to talk about open questions in this area.