

hw08

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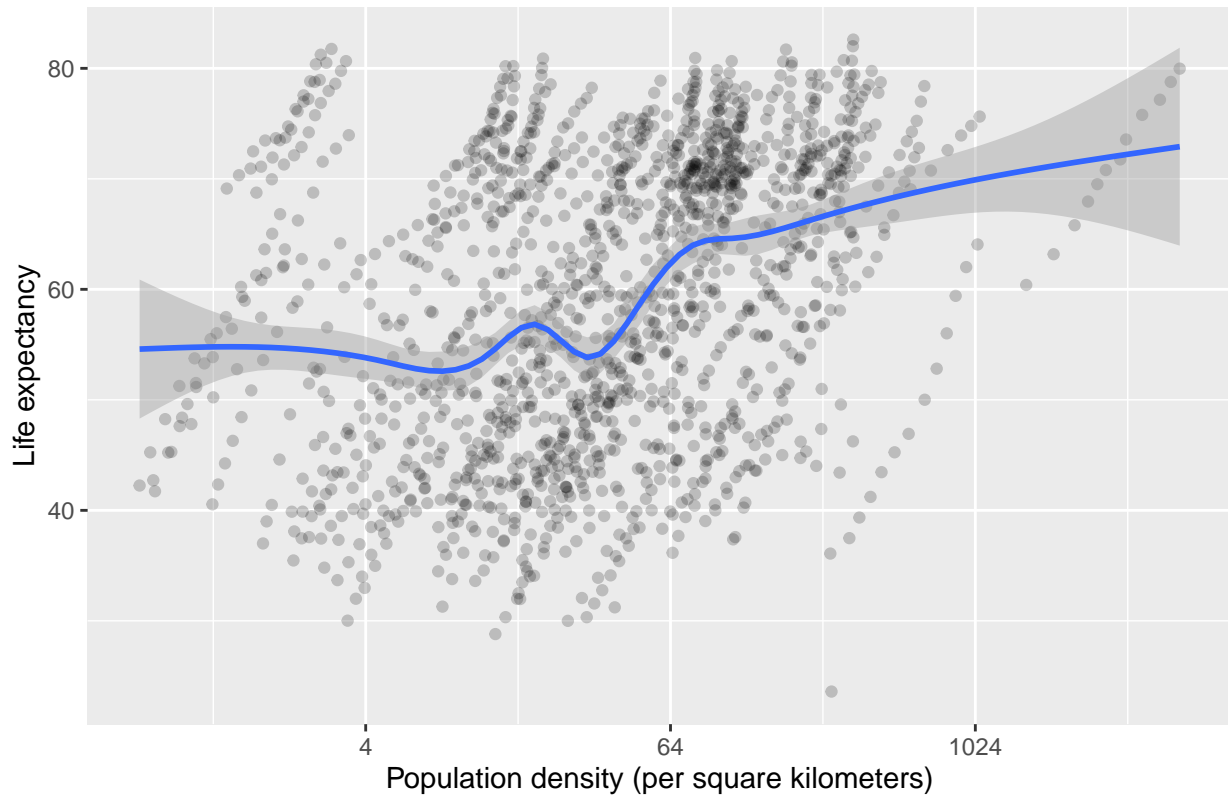
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1. Plot a single graph showing the overall trend

From Figure 1, we can see that the relationship between population density and life expectancy is overall positive. As population density increases, life expectancy increases.

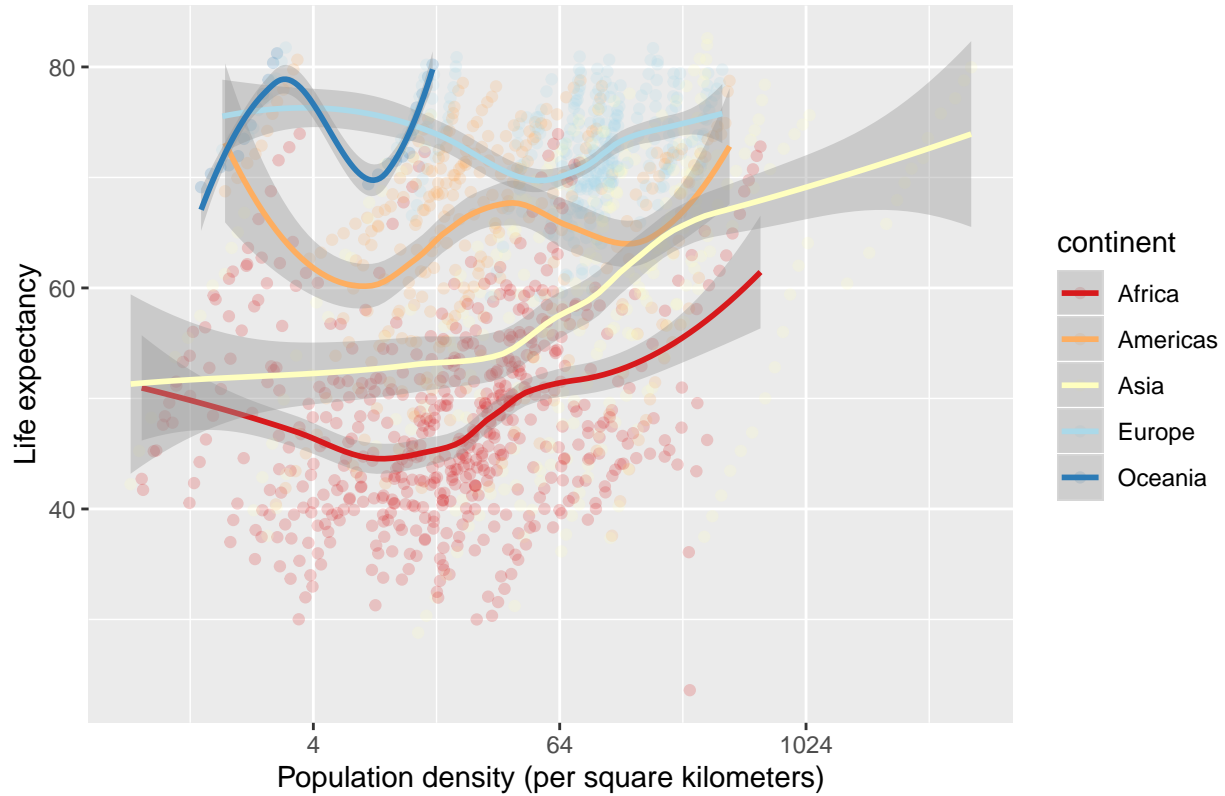
Figure 1: Relationship between population density and life expectancy



2. Plot a single graph showing the trends by continents

From Figure 2, we can see that both Asia and Africa show an overall positive relationship between population density and life expectancy. Especially Asia presents a more robust positive relationship.

Figure 2: Relationship between population density and life expectancy



3. Plot multiple graphs showing the trends in different continents with different x scales

From Figure 3 we can see, only Africa and Asia show a positive relationship between population density and life expectancy. Notice that Africa experiences a negative relationship between the two before population density reaches 16/srkm, and after that point it starts to show a positive relationship between population density and life expectancy. Other continents like Americas, Europe, and Oceania do not have an obvious positive relationship between population density and life expectancy.

Figure 3: Relationship between population density and life expectancy
(by continents)

