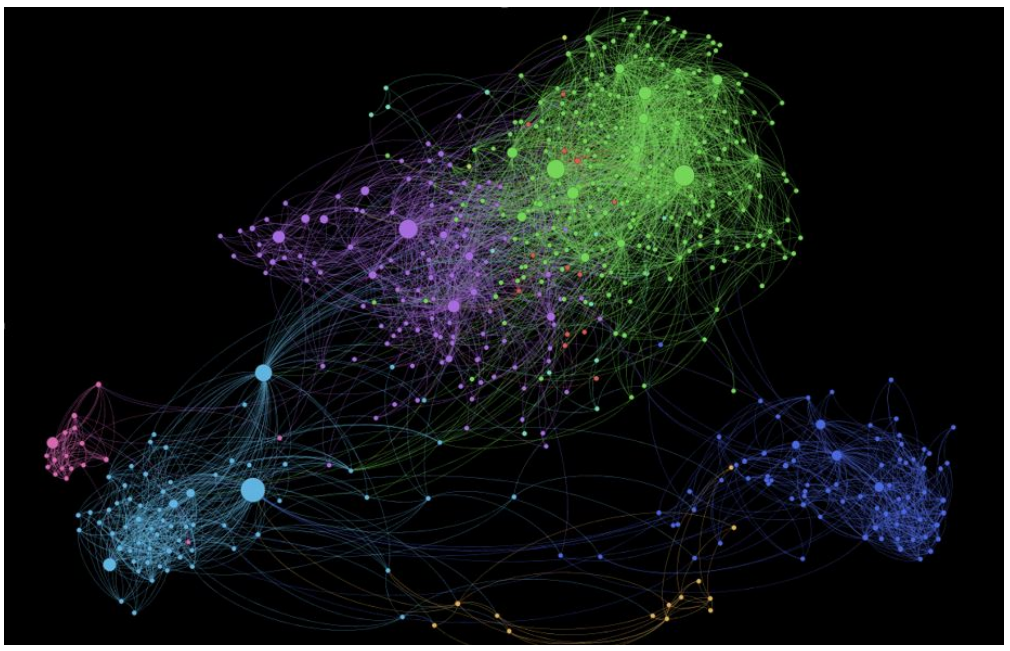
Data is Beautiful - Quiz

Question 1

1 point possible (graded)

Which of the following pieces of information are depicted by the network diagram discussed in class? (Check all that apply)



- [x] Existence of links between people in the network, indicated by connecting lines of any color ✔
- [ ] Geographic location of people in a network, indicated by the color and placement of nodes and lines
- [ ] Population of each village/neighborhood in the Eastleigh, indicated by the size of node
- [x] Importance of each person in the network, indicated by the size of the node ✔

Explanation

Professor Duflo provides an example of data that is presented in a way that is both beautiful as well as informative. As discussed in class, each person or “node” in the network is represented by a circle, where the size of the circle depicts the relative importance of that node. Connections between nodes are depicted by the connecting lines. Different coloring is used to depict distinct groupings of nodes in the network. This image provides a prime example where the most interesting elements of a dataset are depicted in a way that is both informative and beautiful. For more information, see “What can we learn about Somalis from their Facebook networks?” by Kimo Quaintance.

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Answers are displayed within the problem

Question 2

1 point possible (graded)

Which of the following are discussed as ways you might define “importance” in a social network? (Check all that apply)

- [x] Number of connections to others in the network ✔
- [ ] How long someone has been in the network

- [x] Number of links to others who are important in the network ✔
- [ ] Intensity of use of the network (for example, in the case of facebook, the number of pieces of content posted).

Explanation
Number of connections to others within a network and the number of links to others who are important in the network are both discussed as possible ways to define “importance” in a social network. Professor Duflo brings up the example of the original search algorithm used by Google, where pages were ranked highly in part if they were linked to from pages that in turn were linked to by a large number of pages, known as a measure of “eigenvector centrality.”

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ℹ Answers are displayed within the problem

讨论

显示讨论

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