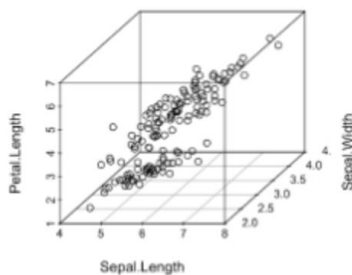


# Assignment #6

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정영준

The topic of this week's lecture is HCI. HCI (Human-Computer Interaction) studies the design and use of computer technology, focused on the interfaces between humans and computers. HCI contains Computer science, Engineering, Ergonomics and human factors, Cognitive/social psychology, Design, Art and Anthropology/sociology. HCI is too broad, it is widely divided into Human-Data Interaction and Human-AI interaction. A good Human-Data Interaction means better understanding, insights and knowledge, decision making. Information visualization is very important for that. Charts, graphs, figures and table help it. Human-AI interaction is hard to understand. Because their structures are complex, they work on high-dimensinal representations and they use large-scale data.



Like upper pictures, we can represent our data in 3D, or 2D or 1D. But we can't represent it through 4D or more. So dimensionality reduction should be conducted. Dimensionality reduction finds a lower-dimensional representation of the original dataset that maintains the distances between points in the original space. Like this, it is very important to visualize the data in HCI.