Data Visualization

TASK ABSTRACTION

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Outline

Motivation

Goals and tasks

Actions and targets

Implications for design

2

Motivation

Tasks are typically described with the domain language

Transforming them into abstract form allows you to reason about similarities and differences between them

Without abstraction, all tasks are different

- Epidemiologist: "Contrast the prognosis of patients who were intubated in the ICU more than one month after exposure to patients hospitalized within the first week"
- Biologist: "See if the results for the tissue samples treated with LL-37 match up with the ones without the peptide"
- o Both: "Compare the values between two groups"

3

Goals and tasks

Visualization tasks are activities to be carried out on a visual data representation for a particular goal

Goal: "Understand the extent and overlap of ranges of six wolf packs"

Task: "Show the movements of the wolf packs on the map with the ability of looking at each pack separately"



A design can facilitate or hinder the achievement of the goal

https://earthlymission.com/gps-tracking-shows-how-much-wolf-packs-avoid-each-others-range/



















