DES535 Ubiquitous Computing

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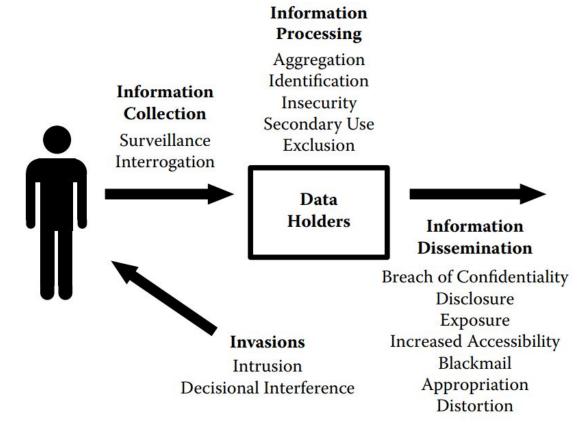


Aspects of Ubiquitous Computing

Module II

Privacy

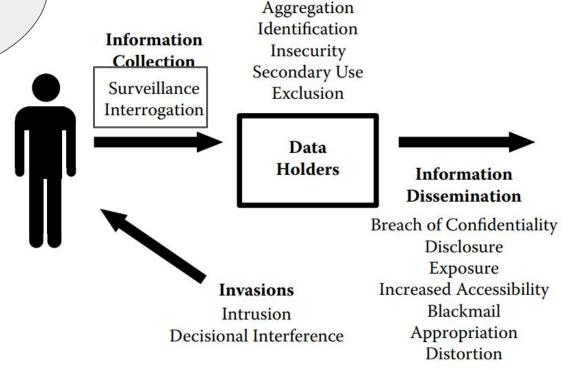
Solove's privacy taxonomy





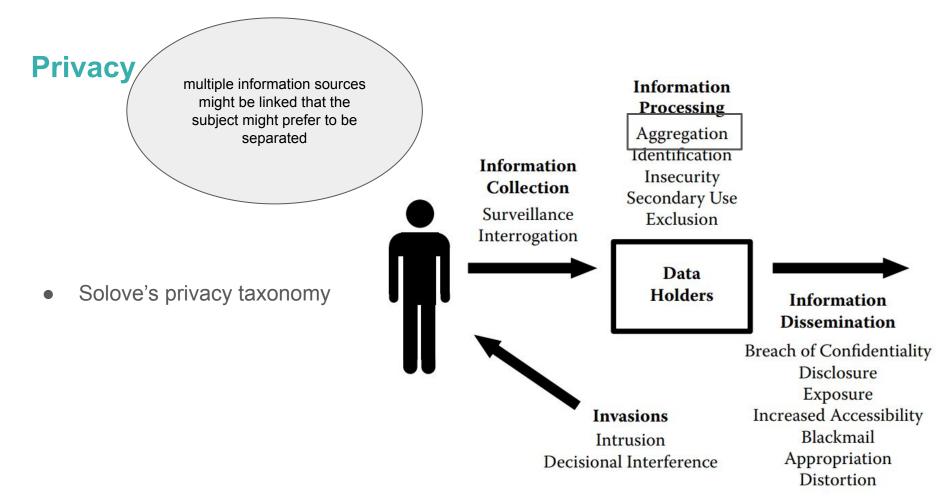
Most of the time this will be voluntary, but hidden or forced collections lead to these activities that violate the data subject's privacy.

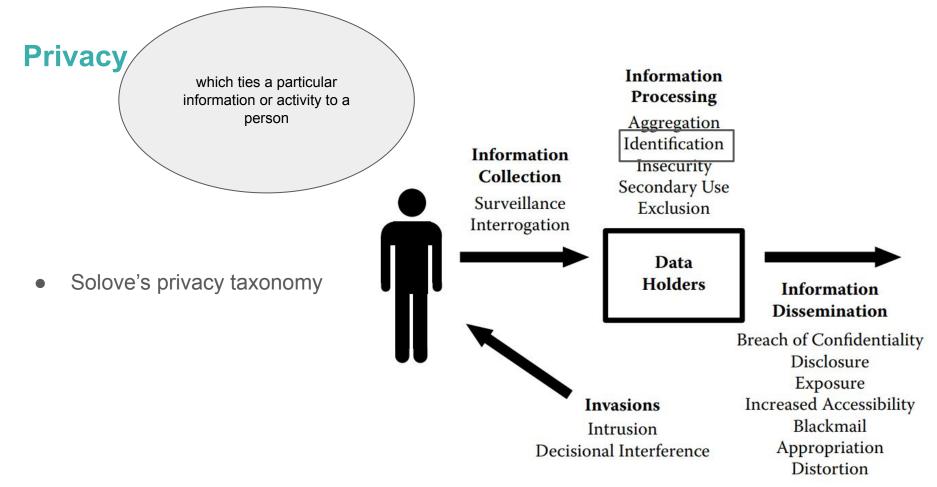
Solove's privacy taxonomy

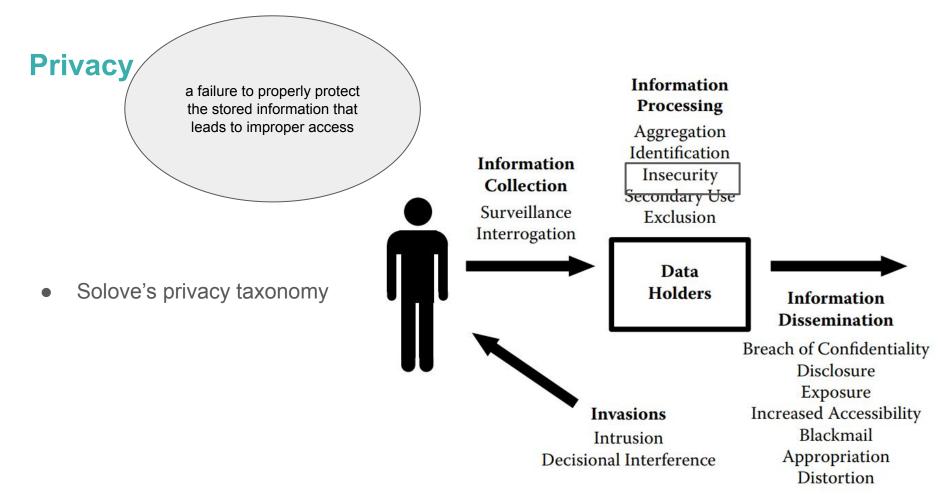


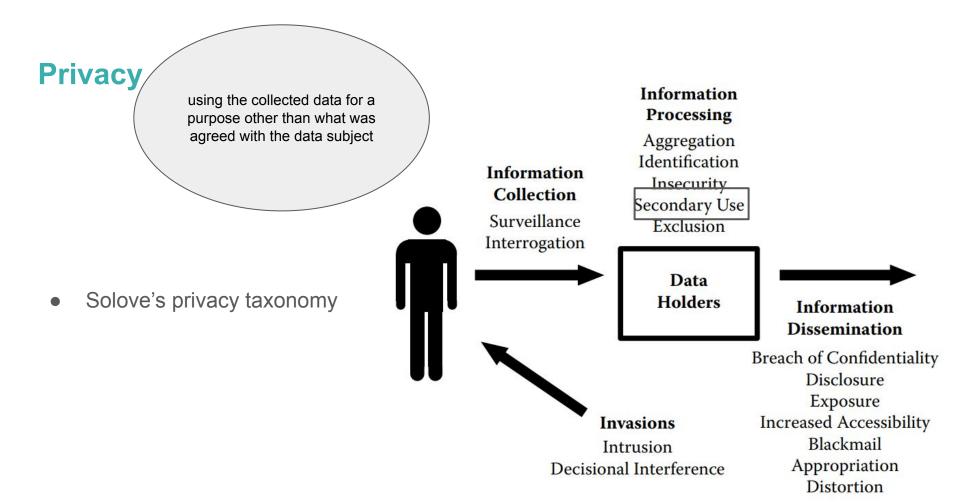
Information

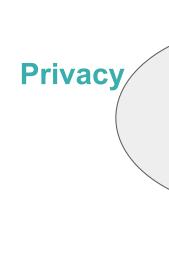
Processing





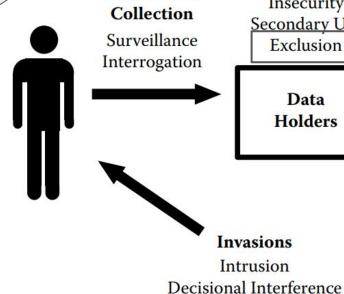






the lack of letting the data subject know what data the holder has on hold about her and how it is used

Solove's privacy taxonomy



Information

Information **Processing**

Aggregation

Identification Insecurity Secondary Use Exclusion

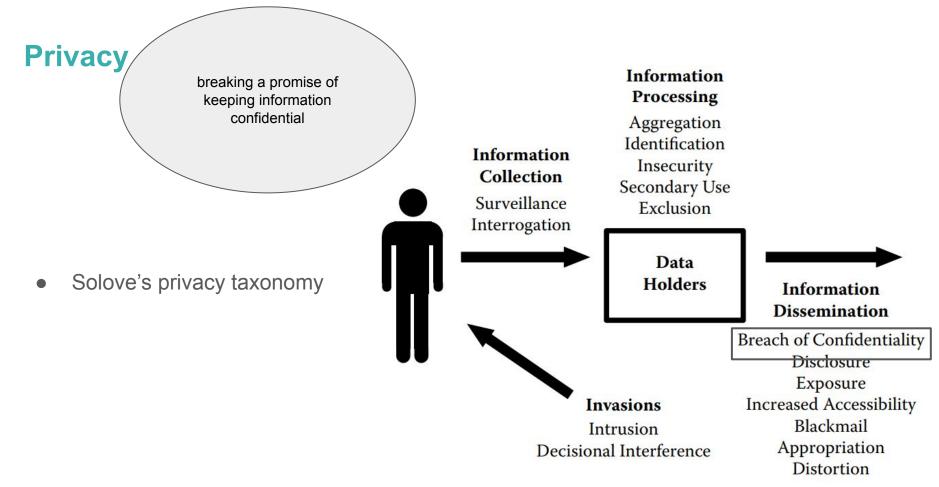
> Data Holders Information Dissemination

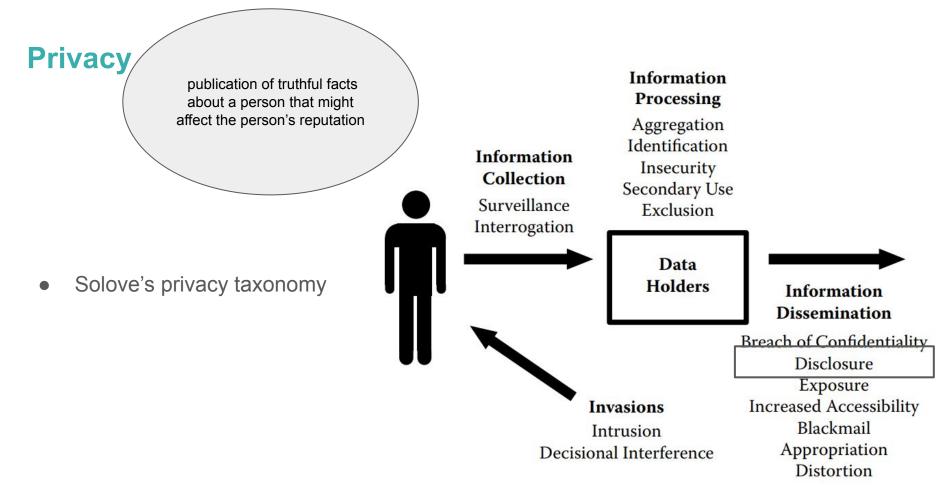
> > **Breach of Confidentiality** Disclosure

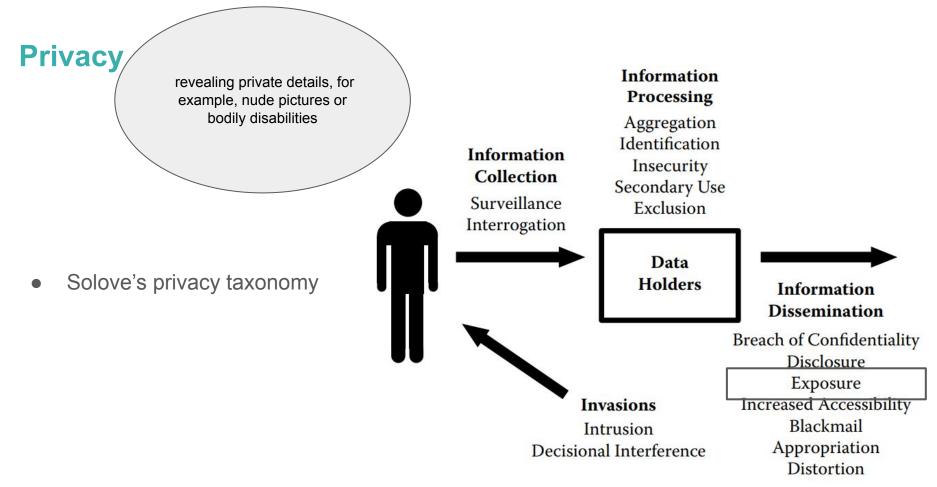
Exposure **Increased Accessibility**

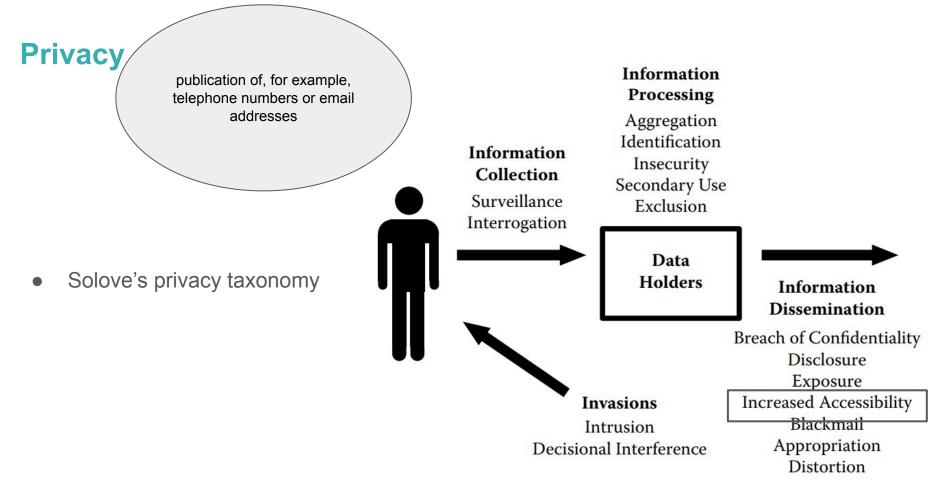
Blackmail

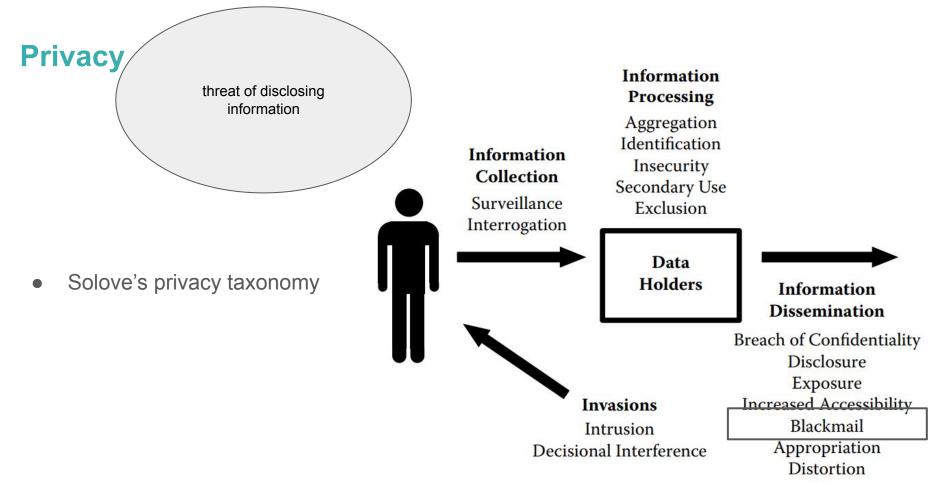
Appropriation Distortion

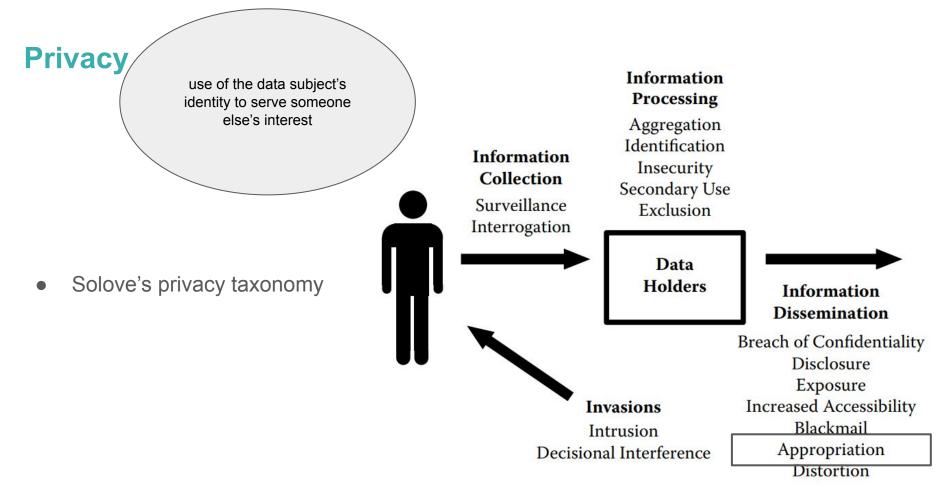


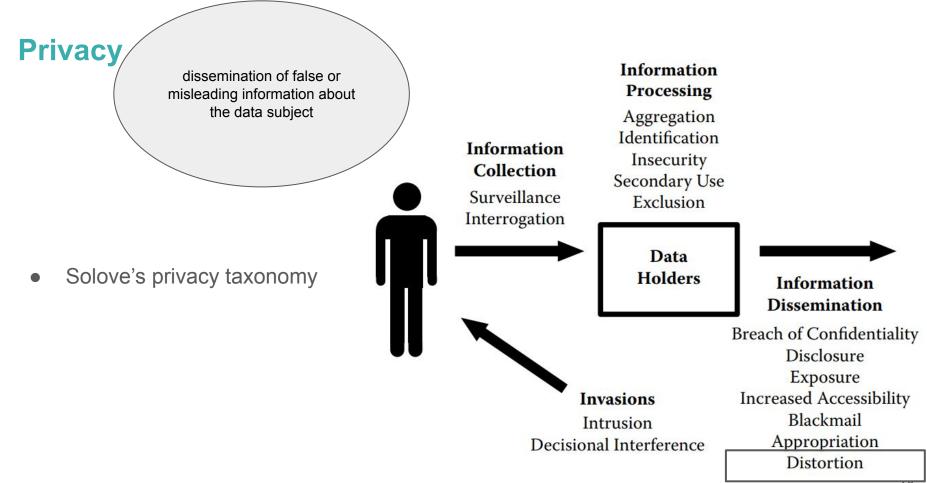






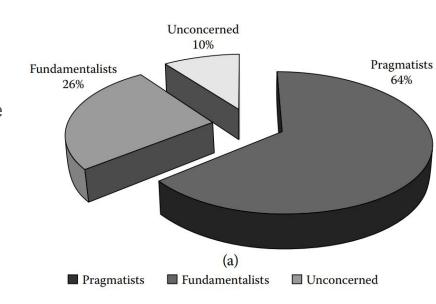




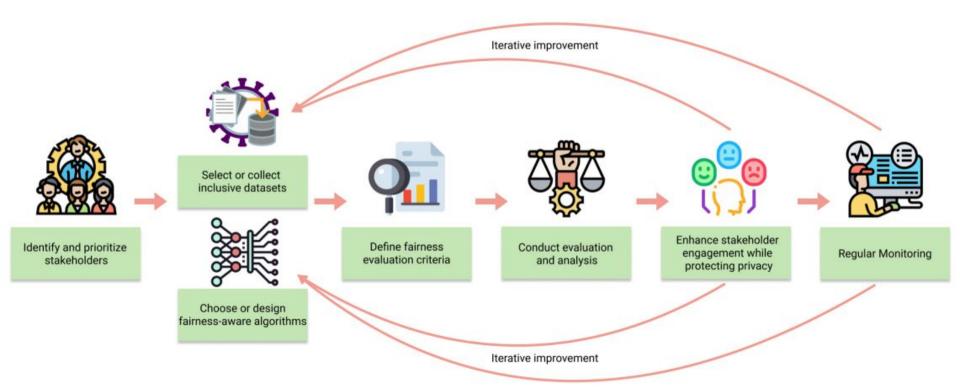


Privacy

- Do People Care about Privacy?
 - Privacy Fundamentalists: generally distrustful of organizations that ask for their personal information
 - Privacy Pragmatists: weigh the benefits to them of various consumer opportunities and services, protections of public safety or enforcement of personal morality against the degree of intrusiveness of personal information sought and the increase in government power involved
 - Privacy Unconcerned: generally trustful of organizations collecting their personal information, comfortable with existing organizational procedures and uses, and ready to forego privacy claims to secure consumer service benefits or public order values



Framework For Designing Fair Ubiquitous Computing Systems



Activity

Develop an app that trains a ML model and uses the trained model to make predictions.

Resources:

- 1. A Python code to train the ML model and create the .pkl file.
- A Python code that creates a Flask Application
- 3. The MIT App Inventor (Application)