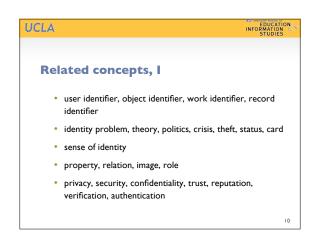


Winds of identity, II

• disciplinary, institutional, departmental
• corporate, brand, product, visual
• mistaken, split
• digital, electronic, virtual, online
• user, object, work, bibliographic, record, citation



Related concepts, II

sameness, identicality, similarity, indiscernibility

individuality, uniqueness, distinctness, difference, diversity

authenticity, cohesion, coherence, tolerance, hybridity

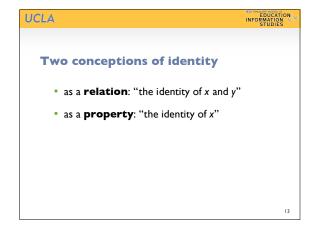
formation, construction, capture, representation, exploration, manipulation, management

identification, individuation, differentiation, discrimination, instantiation, exemplification, characterization

organization, classification, categorization

Analytical approaches to identity

• philosophy of logic
• metaphysics
• social / political philosophy
• philosophy of technology
• philosophy of art
• philosophy of documentation / KO



Identity as a relation

• we say that x and y are numerically identical if x is (the same object as) y

• we say that x and y are qualitatively indiscernible if x has (all and only) the same properties as y

• if x is not (the same object as) y, then we say that x and y are numerically distinct or individual

• if x does not have (all and only) the same properties as y, then we say that x and y are qualitatively discernible or dissimilar

Continuous relations and binary relations

• a relation is a continuous relation (i.e., a relation of degree) if its value can be represented by any point on a line

• e.g., (partial) equivalence, qualitative indiscernibility, similarity, partial correspondence

• a relation is a binary relation if its value can be represented only by one or other of the two poles of a line

• e.g., complete equivalence, numerical identity, sameness, complete correspondence

Leibniz's Law

"No two substances resemble each other entirely and differ in number alone." (Discourse on metaphysics, 1686)

I. the principle of the ident[ical]ity of indiscernibles: if x and y are qualitatively indiscernible, then they are numerically identical

2. the principle of the indiscernibility of identicals: if x and y are numerically identical, then they are qualitatively indiscernible

The ident[ical]ity of indiscernibles

• p: x and y are indiscernible

• q: x and y are identical

• ¬(p∧¬q) = p→q = ¬q→¬p

• if x and y are indiscernible, they're identical: indiscernibility is a sufficient condition for identicality

• only if x and y are identical, are they indiscernible: identicality is a necessary condition for indiscernibility

• if x and y are distinct, then there is at least one property that either x has and y hasn't or vice versa

Questions ...

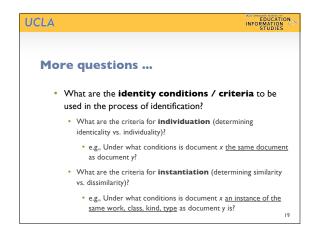
Is principle I true? Contingently or necessarily?

Is principle 2 true? Contingently or necessarily?

answers will depend on what is counted as a property

weak versions of the principles include extrinsic properties
(i.e., relations to other objects)

strong versions exclude extrinsic properties

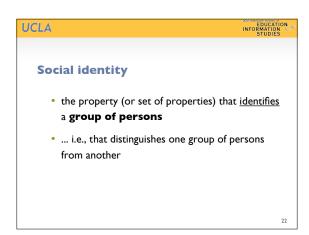




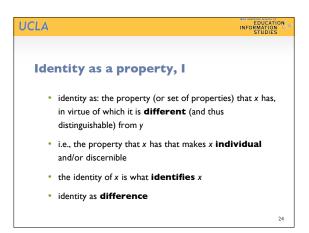
Personal identity

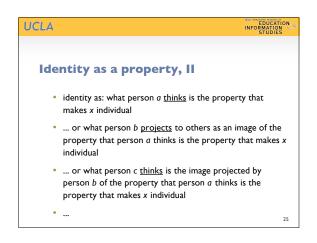
• the property (or set of properties) that identifies a person

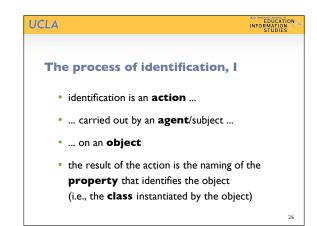
• ... i.e., that distinguishes one person from another



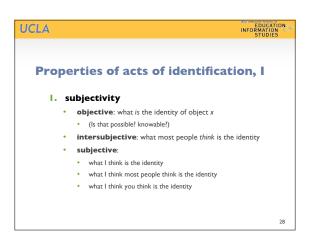
UCLA Kinds/facets of personal/social identity physical ability •group ·ancestral territory political party history •profession/occupation ancestry/genealogy •hobby/interest •class race/phenotype •home/birthplace community religion •language •culture sexual orientation •discipline/field •mental ability skin color •ethnicity •society •mythical origin •family subculture nationality •gender organization/ department 23

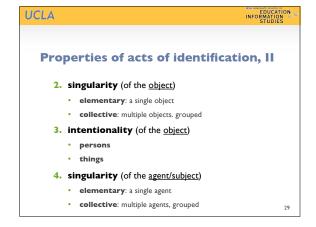


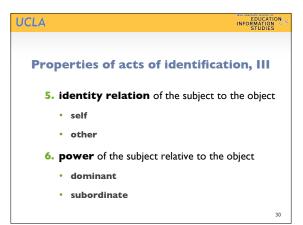


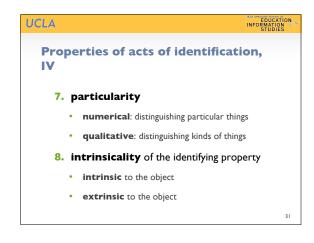


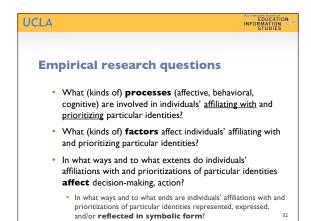






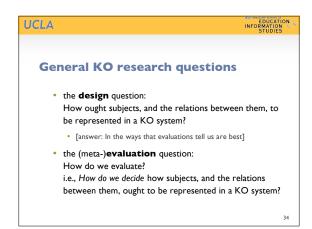






Cf. Joe Tennis (2008): "KO ... is the field of scholarship concerned with the design, study, and critique of the processes of organizing and representing documents that societies see as worthy of preserving."

another working definition: KO is the practice (and theory) of building KOSs that work well



Two conceptions of the goal of KO

cf. (e.g.) Raya Fidel's (1994) identification of two conceptions of the goal of indexing:
document-centered
user-centered
two conceptions of the goal of KO:
description-oriented
retrieval-oriented

Description-oriented KO

• goal: to produce a representation/model of the "universe of knowledge" (or a part of it)

• evaluation criteria:

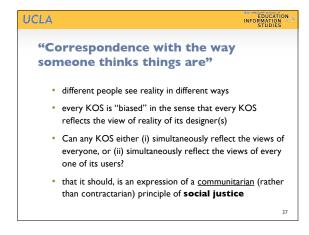
• internal

• coherence; richness; simplicity; elegance

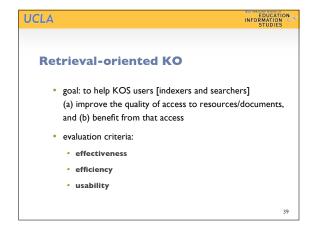
• external

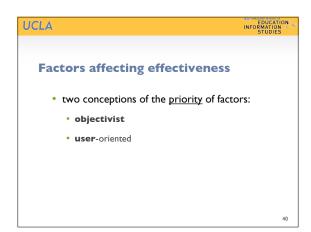
• correspondence with the way things really are

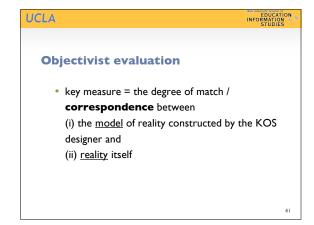
• correspondence with the way someone thinks things are

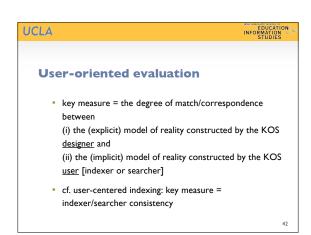


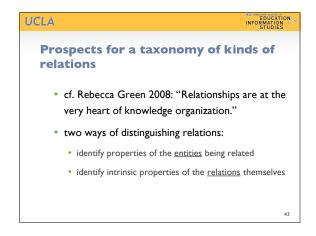


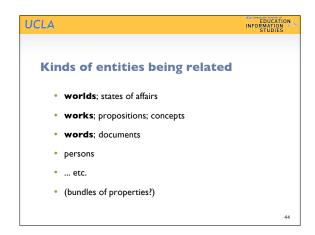


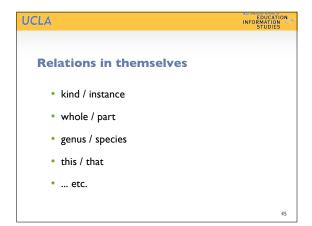


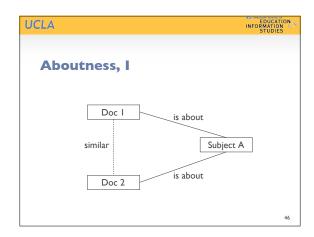


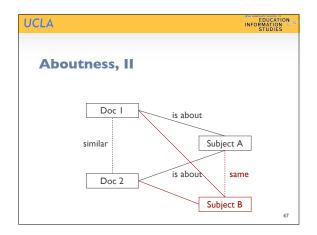


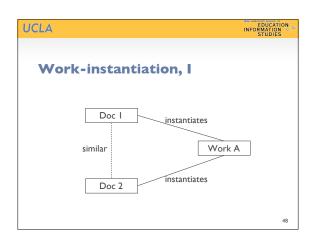


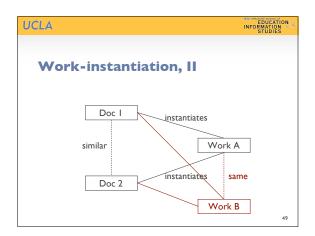


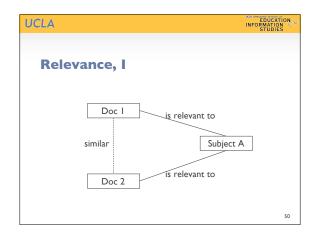


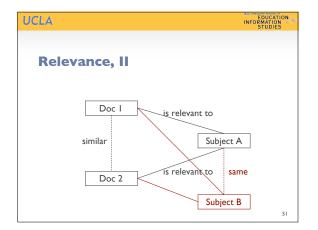


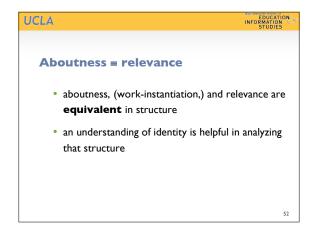












Subjects aren't natural kinds

subjects (and works) are nominal kinds
subjects are not properties of documents: they are properties of intentional acts
judgments of aboutness, (work-instantiation,) and relevance are arbitrary and subjective

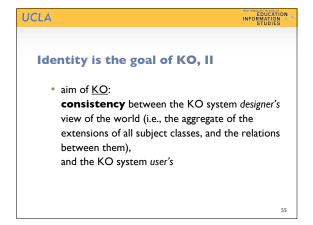
Identity is the goal of KO, I

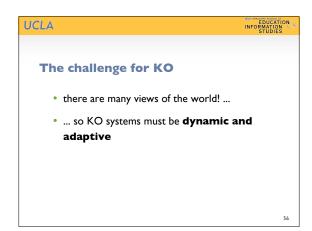
• aim of IR:

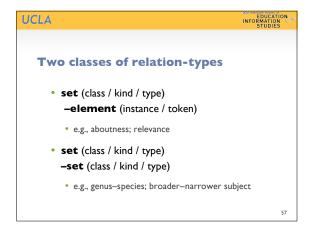
to produce identity between sets of aboutness judgments and sets of relevance judgments

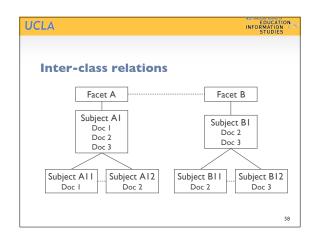
• aim of indexing:

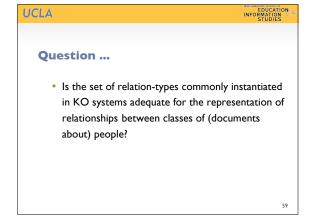
consistency between the aboutness judgments made by indexer a with respect to subject x at time t<sub>1</sub>, and the relevance judgments made by searcher b with respect to subject x at time t<sub>2</sub>

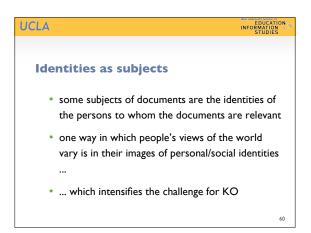


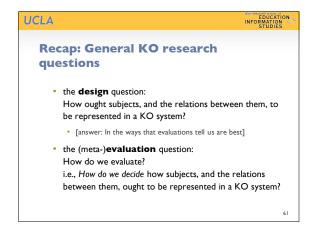


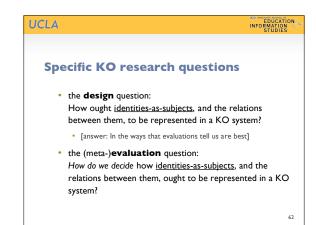




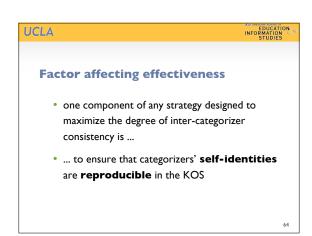


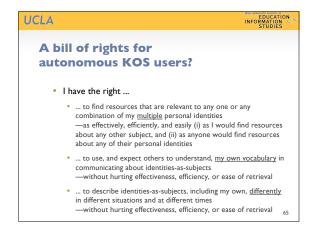


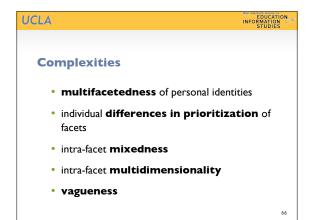


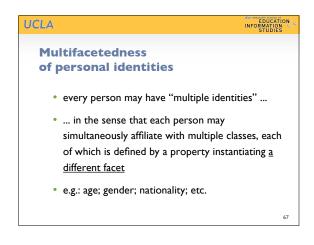


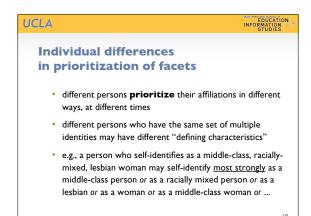


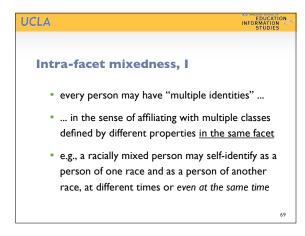




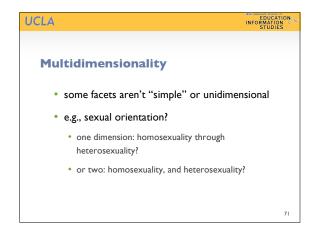












Vagueness

• the boundaries of the classes with which persons affiliate are vague

• it is seldom clear where one non-natural class ends and another begins

• non-natural classes are not constructed on the basis of shared properties but on the basis of family resemblances

• cf. Wittgenstein, Rosch, Lakoff, Williamson

