	Language and Computers Topic 7: Social context	Outline	Language and Computers Topic 7: Social context	Nature of the topic	Language and Computers Topic 7: Social context
Language and Computers (Ling 384) Topic 7: Social context of (language) technology use Detroir Mewer* User, of Laguatic, OBU Winer 2005	Introduction Impact on suckey Impact on human self perception Ethical Introd	Introduction Impact on society Impact on human self perception Ethical issues	Introduction Impact on suckey Impact on human self perception Ethical issues	For this unit, we will ask more questions than we will provide answers. How do we react to computers that make use of language? What does it mean for the way we see ourselves? What assumptions do we make about every use of language, be it a human or a machine? What effect does the use of (language) technology have on our jobs, on our life?	Introduction Impact on society Impact on human self parageton Ethical issues
Some recommended reading  • Sherry Turkle: Life on the Screen: Identity in the Age of the Internet. • Terry Winograd and Femando Flores (1986); Understanding Computers and Cognition. Addison Wesley.	Una Langaga and Campades Tapic 7 (social consult langat on social langat on social langat on social langat on social Ditioni langes	Reacting to computers making use of language HowWhat do we think about a computer which can speak or which understands the fundamental of language ? • Do use treat if like a computer? Think about • The we last bid diage and • Dur treations to get directors • Dur use that bid diage as in the LEA as she • Provide provonse: LEA as in the LEA as she • Provide provonse; LEA as in the LEA as the • Provide provonse; LEA as in the LEA as the • Provide provonse; LEA as in the LEA as the • Provide provide class in the shear more and • etc.	21% Langang ind Campadon Tapich Sacial Tapat on homos and paragonan and	Impact of computers on society Will computers take away our jobs? Composition of the second of the s	1/14 Lengage and Compared Topological Brackford International Internatio
How do jobs change? • Deskilling: "New subdivisions of work tasks means that workers need fewer skills to complete a job, heneby allowing employers to offer workers who have fewer tasks." • Upskilling: "Reorganization of work around mechanization means that workers acquire new skills to use such machines as computers and are freed to be a such machines as computers and are freed to be a such machines as computers and are freed to be a such machines as computers and are freed to be a such machines as computers and are freed to be a such machines as computers and are freed to be a such machines as computers and are freed to be a such as a such as a subscription of the such as a such as a (quoted from http://www.sis.uaberta.ca/cais2000/hitton.htm)	Lucque nél Crepué Tapi 7 Social Mendación Introduction Introduction Engrar o Anema Engrar o Anema Engrar o Anema	Up/Deskilling Exercle 1: k1 is the METEO washer translation system The job astisfaction of the human translators in the Canadia Meleocological charler improved when METEO was installed, and their job became one of checking and rhy tip third ways to improve the system output, rather than translating the weather buildens by hand (the correle effect of this was a greatly reduced turnover in translation saft at the Center) / Doug Arnold, Essen) So basically: •but different work/workers.	Lucque noi Corpun Typi 7 Social United Introduction Introduction Integration Anamosi Integration Anamosi I	Up/Deskilling Exercise 12. henry cataloging 1. Sharrian speen years famming to categorize involvedge (Dewey documal system), alloving for very precise searches. But a user who wards to search trough this: 	Lengen not Convint Trais - Social introduction Introduction Regret on human Regret on human Ender interesting Ender interesting

Conflicting tensions	Language and Computers Topic 7: Social context	How do we see ourselves?	Language and Computers Topic 7: Social context	How do we see ourselves?	Language and Computers Topic 7: Social context
<ul> <li>Ana computational imputs to beard to the will of industrial acades or should a "higher" goal of oblicance be lead in mind?</li> <li>Should we focus on tasks that make life more convenient or on tasks that are "interesting"?</li> <li>Is block to focus on genitative high block doe, or on doing hings "right?"</li> <li>a, Anal chocker can just store every single possible with the high act of the store and the store of the minds of the high act occus per leader to the store with the high act occus per leader to the store with the high act occus per leader to the store with the high act occus per leader to the store with the high act occus per leader to the store with the store occurs."</li> <li>To what extern is language tasking statistically, is that not taking language into account?</li> <li>If you ignore language, will you be able to scale up?</li> </ul>	Introduction Impact on sustainable Representation Particul Insues Ethical Insues 10/102	How does language technology make us see ourselves differently? Is there a danger in humanizing computers? Do we then computers? Do we feel less human? Now feel less human? A our capabilities less worthwhile if we can get a "stugd" machine to emulate them? Out the link that as computer can result as speech the link that is a computer can result as speech Can you share your feelings more with ELIZA than with another human being?	Introduction Impact on success and paragraphics Difficul insues	Do we feel less capable of doing things on our own?     Gougle does a better plo of searching than I could at a     I only those this dout agains. If only not bolds it.     Do we assume the computer is always right?     Do the assume that our influence, or do we need to check with     the computer fast;     I of the dout and our influence authority on language?     If the CALL system conflicts with the language     instructor, who's right?     How can users decide whether the answer of an expert     system is core? If the always could, why would     expert systems be needed?	Introduction Impact on Nacional Testing of International Ethical Introd
Assumptions about language users (human or machine)  • Who are the users of language technology? And why do they want to use this technology? • Do we care who's going to use a particular language technology? • Should some people not be allowed? • Converse, should we make the technologies user-timoly? • Do market and out longuage of the same and out longuage on the same and out longuage on the same modeling what happens in our minds? Do we need to?	Language and Computer Tayle 7: Social connect Introduction Impact on sacking Pagest on handling Rest on sacking Pagest on handling Rest on sacking Rest on sacking Rest on sacking Rest of the sacking Rest of	What does it mean to understand? Which of these programs has understanding (Winogiad & Program 2: prints out the time of day when it sees "What time is it?", no response for anything else. Program 2: anoress" What is it? (time, day, month, year) by typing out appropriate response Program 3: collection of patterns matched against input "Another widesprad, and to me supriaring, reaction to demonstrated a general solution to the problem of computer understanding of natural language." (Wetershauer, Computer Pawer and Human Reason, p. 6) Program 4: collection of scripts for various scenarios; matches patterns based on each scenario	Language and Computers Tayle 7: Social Consult Introduction Impact on Incomp Particle Internet Ethical Intrust Ethical Intrust	Artificial intelligence The field of artificial intelligence seeks to endow computers with humanike intelligence. This can be anything from detecting faces in a picture to a full-idown took water (yet to be designed). Dialogue systems, machine translation, and so on appear to have some intelligence, but the important questions are: What is (human) intelligence? The ist (human) had general amar? . Anote Damaid, Decartars from: we need emotions in sofer to have cognition.	Langunge and Computers Taple 7: Social Instancial Insta
	12/19		14/15		15/16
Ethical issues Are there ethical issues to consider in using (language) technology?  • Should everyone have access to these different systems? • Charge visues? • Charge visues? • Charge visues? • Charge visues have tack of user models • CAL visues have tack of user models • Call visues have tack of user models • Spanners test if their right to send you emails. • Are there attitution in which computer use is not responsible? • Them shares the large tack could defin have	Language and Computers Tapic 7: Social context Introduction Impact on sachily Impact				