


Introduction to hci ppt

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Introduction to hci ppt

Prerequisite: Department Consent Professor: Wasu Chaopanon Human-Computer Interaction (3rd Edition), Prentice Hall; by Alan Dix, Janet E. Finlay, Gregory D. Abowd, Russell Beale booksite Designing the User Interface: Strategies for Effective Human-Computer Interaction (1st edition 1987, 2nd edition 1992, 3rd edition 1998, booksite Ad Dison-Wesley Publishers, Reading, MA), Ben Shneiderman Local copy of books presentation slide Human Computer Interaction Lectures on youtube A For each chapter of the book, instructors can download a series of slide powerpoints to use in their lectures or seminars. You can download these slides from the list below: Feb 09, 2016ReportDownloadCategory:DocumentsDescription: Introduction to HCI. Human interaction with computer CIS 6930/4930 Section 4188/4186. Introduction. What is a user interface? Why are we interested in design? We see him all the time. What's good about the design of this error box? The user knows this is an error à PowerPoint Presentation PPT Transcript:Introduction to HCIHuman Computer InteractionCIS 6930/4930Section 4188/4186IntroWhat is a User Interface?Why do we care about design?We see this all the time. What's good about the design of this error box?Does the user know it's a mistakeWhat's bad about the design of this error box?DisorderInsufficient informationNo way to fix the problem (instructions or contact information) Why HCI is importantStudying our interface with information.It's not just about how big the buttons should be or how to configure the menu choicesCan as layoutCan affectEffectivenessProductivity MoralsSafetyExample: a car with a low HCMoralitySafetyExample: a car with a low HCI takes 5 minutes to write a common device with Substantial HCI design choices and discuss with your neighbor How does it affect you or other users?My ChoiceiPod by Apple ComputersPro:portablepower of use# of controlsAgainst:scratch easilyno speech for carowner useHCI Communityacademics/Industry Research TaxonomiesTheoriesForecast modelsExperimenters Empirical dataProduct designOther sectors (Sociologists, a Tropologists, managers) EnginePerceptualCognitiveSocial, economical, ethicalHCI ToolsSound3DAanimationVideosDevicesDimensions (small->very large) Portable (PDA, phone) Plasticity Sensitive/conscious contextPersonalizableUbiquoUsing requirementsObjectives:Usability Universality UsageUseUseUseUseUseAchieved by:PlanningSensitivity to user needsDevotion to requirements analysisTestBad InterfacesBumbersomeConfusionSlow-trust (e.g. window crashes) What makes it hard?Variants by cultureMultiple user platformsThink about a game you played with a bad interfaceUNIXWhat's wrong with each one?Type of It is interested in so that is a solution of redesign? DIFFERENCE BETWEEN A SPACE SPACE Fighting car and jet engineFunità Functions As data specified Displayed data must be correctly carried out correctly with confidence! (Software, Hardware, Information) Case: Pentium Floating Point Bugprivacy, Security, Access, Data Destruction, Manhinder Printing, Integration, Consistency, Standardization Standardization Common features of the user interface In multiple applicationSPlewebwindowsintega File formats Consistence of common actions, terms , Unit, Layout, Color, Interior Typography of a PORTABILITY PORTABILITY Convert data and interfaces in hardware and software environments Multiplipword / HTML / PDF / ascabase Study: Library of Congress Database DesignHTTP: //catalog.loc.gov/ Two InterfaceCatalog New Books3 Training course of 6 hours à € *Stafferscerca Catalog of Libigeneral Public too complex, Command language and complex cataloging rules SELECTION TAILLETSFunctional REDUCTIONMigliore PresentationBigeVenitive interface based on WebStex Database and services, different interfaces of use We can measure re Not as important: costs, prolonged training, satisfaction, industrial and commercial retention applications: banks, insurance, inventory, reservations: short training, ease of use / learning, multilingual, adaptation to local cultures, multi-platform, office speed, home and entertainment Applications : E-mail, ATMs, games, education, search engines, mobile phones / pdarreStsites: learning / use / retention facilities, error rates, satisfaction specifications: cost, dimension time of apprentimentvelocity Erroric Collapservation Nethasso Subject TemosaticsDevelopmentPlorative, Creative, Collaborative Applications: Web Browsing, Search Engines, Simulations, Scientific Display, CAD, Computer Graphics, Musical Composition / Artist, Photo Arranger (e-mail photo) Requirements: Remove your computer from experience , Difficulty: User Tech Savvy-Ness (applying this to application examples) Socio-technician systemsPlications: Health, Vote, Polistations: trust, security, accuracy, veridicity, error management, User Tech-Savy-Nesstime to Learntime of Performance of ErroricUservation in the Subjective TemosatisfactionUniversal USABILITYLà € ™ Interface should manage the diversity of background motivationPersonality cultureDomanda, as one could design a database interface in Different for: a. Right, Indian woman, software engineer, technology expert, wants a rapid interaction. Man Mancino, French, Artistanon means lowerskeys. Help disabled people helped others (parents with strollers, elderly) ex. Ex. Objective handles: dealing with multiple users - unlike yourself! Physical variation disabled capabilities (elderly, handicapped, visions, ambidexterity, capacity to see in stereo [Suterland] Speed color difficulty working space (ergonomics science) dimensions design a lot of previous research anthropometry field measures of what It is 5-95% per weight, height, etc. (static and dynamic) Large Variance reminds us that there is great variety appoints some devices that would affect it. Most keyboards are the brightness of the same screen varies considerably height of the chair, rear height, display angle multimodal interfaces audiotouch cognitive and perceptive screens taxonomyknowledge, understanding, analysis, application, synthesis, short-term memory evaluation and long-term work and semanticproblem solving and reasoningDecision makingLanguage and communicationresearch, images, sensory memoryLearning, Ability development, cone acquisition Scenics Background factors: fatigue, cognitive load, background, boredom, fear, drugs / alcohol computer anxiety of computer gender games do women like? Pac-Man, Donkey Kong, TetrisBecause? (Hypotheses: less violent soundtracks, more peaceful, completely visible playing fields, softer colors, personality, closure / completeness) can we measure it? What current games are for women? Style, rhythm, top-down / bottom-up, visual / audio learners, dense vs. Data spreading no simple taxonomy of user personality types. Ex. Myers-Briggs Extrovert VS indicator vs. Introvertsensing vs. Perceptive intuition against judgment to feel against thinking weak link between types of personalities and interfaces designed to your application, and see if the user's personality is important! Jet Vs. fighter Search Engines Cultural Diversity and InternationalLuggedate / Time Conventions Weight and MeasurementSt-To-Right Directions (!) Phone #SE Address, Titles, Salutiss, ID, Passport Call, Buttons, Colorings: Local Experts / Usability Studies Users with DisabilitiesFederal Law To ensure it access to IT, including computers and websites. (1998 Amendment to the Rehabilitation Law) Disabled Visionblind (Bill-Reader) Low-visioncolor-BlindhearingDeaflimited Udility LearningDySlexia Defending, Specific Hemisphere, etc. Keyboard and Alternative Mouse Coding Color Font-SizeUsers with Disability Contrast Text Descriptors For Web Images Screen Enlargement Text in Speech (TTS) Jaws (Web Pages) Check Email On The Road, in Sunlight, Riding a motor responsible for optical mice mounted Checking the scope of the eyelashes This helps to help people with disabilities affect all-cutings, indications and advanced instructions also accessible to the poor readers typical feedback sequences that explain Reason for error and help put users on the right reinforcement tracks with other devices Good destination area for a final project! Skills of ElderlyReducedmotor Percessing, Hearing, Touch, Mobility SpeedMemoryAltre Upage Technological Experience Varia (how many grandmothers use e-mail? Mothers?) Not informed about Technology could help themPractical skills (eye-to-hand, problem solving, etc.) Touch screens, larger characters, louder sounds Saving technology for children? Age changes a lot.Physical dexterity (double click, click and drag, and small goals) Attention span (vaguely) IntelligenceDry backgrounds (socio-economic) Goals Educational AccelerationSocialization with peersPsychological - improve self-image, self-confidence Creativity art, music, exploration etc. are a special groupNext generation Beta head new interfaces, mobile trends, text messages, simulations, fantasy games, virtual worlds Requires security They! like to explore (easy to reset status) No matter making mistakes Like familiar characters and repetition (always had to babysit a child with an Ice Age DVD?) You don't like the comment condescension, inappropriate humorDesign: Focus groups Accommodating Hardware and Software DiversitySupport a wide range of hardware and software platforms Software and hardware evolution OS, application, browser, backbackward compatibility functionality is a good goal Three major technical challenges are:Producing satisfactory and effective Internet interaction (b Broadband vs. dial-up & wireless) Enable large-to-small web services (size and resolution) Support for easy maintenance or automatic multi-language conversion HCI GoalsInfluences academic and industrial researchers Understand a problem and the related theoryHypothesis and testingStudy design (do it well!) Interpretative results Provide tools techniques and knowledge for trade trade

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