HUMAN FACTORS IN INFORMATION DESIGN

HUMAN FACTORS IN INFORMATION DESIGN: ENHANCING CLARITY AND USABILITY

HUMAN FACTORS IN INFORMATION DESIGN PLAY A CRUCIAL ROLE IN SHAPING HOW PEOPLE PERCEIVE, UNDERSTAND, AND INTERACT WITH INFORMATION. WHETHER IT'S A WEBSITE, A USER MANUAL, A DASHBOARD, OR AN INFOGRAPHIC, THE WAY INFORMATION IS PRESENTED CAN SIGNIFICANTLY IMPACT USER EXPERIENCE AND EFFECTIVENESS. AT ITS CORE, INFORMATION DESIGN IS ABOUT MAKING DATA ACCESSIBLE AND UNDERSTANDABLE, BUT WITHOUT CONSIDERING HUMAN FACTORS—SUCH AS COGNITIVE ABILITIES, PERCEPTION, AND BEHAVIOR—DESIGNS CAN EASILY MISS THE MARK. LET'S DIVE DEEPER INTO HOW HUMAN FACTORS INFLUENCE INFORMATION DESIGN AND WHY THEY MATTER MORE THAN EVER IN TODAY'S DATA-DRIVEN WORLD.

UNDERSTANDING HUMAN FACTORS IN INFORMATION DESIGN

Human factors refer to the various psychological, physiological, and behavioral characteristics that influence how people interact with systems and information. When applied to information design, human factors focus on tailoring content and visuals to match the needs, limitations, and preferences of users.

DESIGNERS WHO GRASP THESE ELEMENTS CAN CREATE MATERIALS THAT ARE NOT ONLY VISUALLY APPEALING BUT ALSO INTUITIVE AND EASY TO NAVIGATE. THIS UNDERSTANDING BRIDGES THE GAP BETWEEN COMPLEX DATA AND THE END USER'S ABILITY TO COMPREHEND AND ACT ON THAT DATA EFFICIENTLY.

THE ROLE OF COGNITIVE LOAD

One of the most significant human factors in information design is managing cognitive load—the amount of mental effort required to process information. If an information layout overwhelms the user with excessive details or poorly organized data, it leads to confusion and disengagement.

EFFECTIVE INFORMATION DESIGN MINIMIZES UNNECESSARY COGNITIVE LOAD BY STRUCTURING CONTENT LOGICALLY, USING CLEAR HEADINGS, AND INCORPORATING WHITESPACE STRATEGICALLY. THIS APPROACH HELPS USERS FOCUS ON ESSENTIAL INFORMATION WITHOUT FEELING OVERLOADED, IMPROVING RETENTION AND DECISION-MAKING.

PERCEPTION AND VISUAL HIERARCHY

HUMAN PERCEPTION DICTATES HOW QUICKLY AND ACCURATELY USERS CAN INTERPRET VISUAL ELEMENTS. COLORS, SHAPES, FONT SIZES, AND POSITIONING ALL CONTRIBUTE TO ESTABLISHING A VISUAL HIERARCHY THAT GUIDES THE EYE NATURALLY THROUGH THE CONTENT.

FOR EXAMPLE, BOLD HEADERS GRAB ATTENTION FIRST, FOLLOWED BY SUBHEADINGS AND BODY TEXT. DESIGNERS LEVERAGE CONTRAST, COLOR CODING, AND SPACING TO HIGHLIGHT CRITICAL DATA POINTS AND CREATE A FLOW THAT FEELS INTUITIVE. IGNORING THESE PRINCIPLES CAN RESULT IN CLUTTERED OR MISLEADING DESIGNS, FRUSTRATING USERS AND OBSCURING KEY MESSAGES.

APPLYING HUMAN FACTORS TO DIGITAL INTERFACES

IN THE REALM OF DIGITAL INTERFACES—FROM WEBSITES TO MOBILE APPS—THE IMPORTANCE OF HUMAN FACTORS IN INFORMATION DESIGN BECOMES EVEN MORE PRONOUNCED. USERS EXPECT SEAMLESS INTERACTIONS AND QUICK ACCESS TO RELEVANT INFORMATION, MAKING USABILITY A TOP PRIORITY.

ACCESSIBILITY AND INCLUSIVITY

DESIGNING WITH ACCESSIBILITY IN MIND ENSURES THAT INFORMATION IS USABLE BY PEOPLE WITH DIVERSE ABILITIES. THIS INCLUDES CONSIDERATIONS SUCH AS TEXT READABILITY, COLOR BLINDNESS-FRIENDLY PALETTES, KEYBOARD NAVIGATION, AND SCREEN READER COMPATIBILITY.

BY INTEGRATING ACCESSIBILITY STANDARDS, DESIGNERS NOT ONLY COMPLY WITH LEGAL REQUIREMENTS BUT ALSO BROADEN THEIR AUDIENCE REACH. IT'S A FUNDAMENTAL ASPECT OF HUMAN FACTORS IN INFORMATION DESIGN THAT FOSTERS INCLUSIVITY AND EQUAL ACCESS.

RESPONSIVE DESIGN AND USER CONTEXT

People access information on various devices—smartphones, tablets, desktops—each with different screen sizes and interaction methods. Human factors compel designers to create responsive Layouts that adapt seamlessly across platforms.

Moreover, understanding user context—like whether someone is researching at home or checking quick stats on the go—helps tailor the presentation of information. Simplifying content for mobile users or prioritizing key actions can enhance usability and satisfaction.

HUMAN FACTORS IN DATA VISUALIZATION

DATA VISUALIZATION IS A POWERFUL TOOL IN INFORMATION DESIGN, TRANSFORMING RAW NUMBERS INTO MEANINGFUL STORIES. BUT WITHOUT ATTENTION TO HUMAN FACTORS, EVEN THE MOST VISUALLY STUNNING CHARTS CAN FAIL TO CONVEY THEIR INTENDED MESSAGE.

CHOOSING THE RIGHT CHART TYPES

DIFFERENT TYPES OF DATA REQUIRE DIFFERENT VISUALIZATION APPROACHES. FOR INSTANCE, TRENDS OVER TIME ARE BEST SHOWN WITH LINE GRAPHS, WHILE COMPARISONS MIGHT USE BAR CHARTS. UNDERSTANDING HOW USERS INTERPRET THESE CHARTS HELPS DESIGNERS SELECT FORMATS THAT COMMUNICATE EFFECTIVELY AND AVOID MISINTERPRETATION.

COLOR AND PATTERN USE IN VISUALIZATIONS

COLOR IS A DOUBLE-EDGED SWORD—IT CAN CLARIFY OR CONFUSE. HUMAN FACTORS RESEARCH GUIDES THE USE OF COLOR PALETTES THAT ARE DISTINGUISHABLE FOR ALL USERS, INCLUDING THOSE WITH COLOR VISION DEFICIENCIES. USING PATTERNS OR TEXTURES ALONGSIDE COLOR CODING CAN ADD AN EXTRA LAYER OF CLARITY, IMPROVING OVERALL COMPREHENSION.

PRACTICAL TIPS FOR INTEGRATING HUMAN FACTORS IN INFORMATION DESIGN

INCORPORATING HUMAN FACTORS INTO YOUR INFORMATION DESIGN PROCESS CAN SEEM DAUNTING, BUT SOME PRACTICAL STRATEGIES CAN MAKE A BIG DIFFERENCE:

- KNOW YOUR AUDIENCE: CONDUCT USER RESEARCH TO UNDERSTAND THEIR NEEDS, PREFERENCES, AND CHALLENGES.
- SIMPLIFY LANGUAGE: AVOID JARGON AND USE CLEAR, CONCISE WORDING TO IMPROVE READABILITY.

- Organize logically: Structure content with headings, subheadings, and bullet points for easy scanning.
- TEST DESIGNS: USE USABILITY TESTING TO GATHER FEEDBACK AND IDENTIFY PAIN POINTS BEFORE FINALIZING.
- **Use familiar conventions:** Follow established design patterns to meet user expectations and reduce learning curves.
- PRIORITIZE KEY INFORMATION: HIGHLIGHT THE MOST IMPORTANT ELEMENTS USING SIZE, COLOR, OR POSITIONING.

WHY HUMAN FACTORS MATTER MORE THAN EVER

We live in an era overflowing with information. From dashboards packed with analytics to emergency signage in public spaces, the clarity and effectiveness of information design can have profound implications.

Misinterpretation or difficulty accessing critical information can lead to mistakes, inefficiencies, or even safety risks.

BY EMBRACING HUMAN FACTORS, DESIGNERS CREATE MEANINGFUL CONNECTIONS BETWEEN DATA AND USERS, ENABLING BETTER DECISIONS AND SMOOTHER INTERACTIONS. THIS HUMAN-CENTERED APPROACH TRANSFORMS INFORMATION DESIGN FROM MERE PRESENTATION TO A POWERFUL TOOL FOR COMMUNICATION AND UNDERSTANDING.

AS TECHNOLOGY EVOLVES AND DATA BECOMES INCREASINGLY COMPLEX, THE ROLE OF HUMAN FACTORS IN INFORMATION DESIGN WILL ONLY GROW. DESIGNERS WHO INVEST TIME AND EFFORT INTO THIS AREA ARE BETTER EQUIPPED TO MEET THE CHALLENGES OF MODERN COMMUNICATION AND CREATE EXPERIENCES THAT TRULY RESONATE WITH THEIR AUDIENCES.

FREQUENTLY ASKED QUESTIONS

WHAT ARE HUMAN FACTORS IN INFORMATION DESIGN?

HUMAN FACTORS IN INFORMATION DESIGN REFER TO THE STUDY AND APPLICATION OF HOW HUMANS INTERACT WITH INFORMATION SYSTEMS AND VISUAL DISPLAYS TO OPTIMIZE USABILITY, COMPREHENSION, AND DECISION-MAKING.

WHY IS UNDERSTANDING HUMAN FACTORS IMPORTANT IN INFORMATION DESIGN?

Understanding human factors is important because it ensures that information is presented in a way that aligns with human cognitive abilities and limitations, reducing errors and improving user experience.

HOW DO COGNITIVE LOAD PRINCIPLES INFLUENCE INFORMATION DESIGN?

COGNITIVE LOAD PRINCIPLES INFLUENCE INFORMATION DESIGN BY GUIDING DESIGNERS TO PRESENT INFORMATION CLEARLY AND CONCISELY, MINIMIZING UNNECESSARY MENTAL EFFORT TO HELP USERS PROCESS AND RETAIN INFORMATION EFFECTIVELY.

WHAT ROLE DOES ACCESSIBILITY PLAY IN HUMAN FACTORS FOR INFORMATION DESIGN?

ACCESSIBILITY ENSURES THAT INFORMATION DESIGN ACCOMMODATES USERS WITH DIVERSE ABILITIES, INCLUDING THOSE WITH VISUAL, AUDITORY, OR COGNITIVE IMPAIRMENTS, MAKING INFORMATION USABLE FOR A WIDER AUDIENCE.

HOW CAN USABILITY TESTING IMPROVE INFORMATION DESIGN THROUGH HUMAN

FACTORS?

USABILITY TESTING HELPS IDENTIFY HOW REAL USERS INTERACT WITH INFORMATION DESIGNS, REVEALING PAIN POINTS AND AREAS OF CONFUSION, WHICH CAN THEN BE ADDRESSED TO ENHANCE CLARITY AND USABILITY.

WHAT ARE COMMON HUMAN ERRORS CONSIDERED IN INFORMATION DESIGN?

COMMON HUMAN ERRORS INCLUDE MISINTERPRETATION, INFORMATION OVERLOAD, ATTENTION LAPSES, AND MEMORY FAILURES; INFORMATION DESIGN AIMS TO MITIGATE THESE THROUGH CLEAR ORGANIZATION AND INTUITIVE PRESENTATION.

HOW DOES COLOR THEORY RELATE TO HUMAN FACTORS IN INFORMATION DESIGN?

COLOR THEORY RELATES BY LEVERAGING HUMAN PERCEPTUAL ABILITIES TO USE COLOR FOR EMPHASIS, CATEGORIZATION, AND READABILITY, WHILE AVOIDING COMBINATIONS THAT CAN CAUSE CONFUSION OR ACCESSIBILITY ISSUES.

WHAT IS THE IMPACT OF TYPOGRAPHY ON HUMAN FACTORS IN INFORMATION DESIGN?

TYPOGRAPHY IMPACTS READABILITY AND COMPREHENSION; APPROPRIATE FONT CHOICE, SIZE, SPACING, AND CONTRAST HELP USERS READ AND UNDERSTAND INFORMATION QUICKLY AND COMFORTABLY.

HOW DO CULTURAL DIFFERENCES AFFECT HUMAN FACTORS IN INFORMATION DESIGN?

CULTURAL DIFFERENCES AFFECT INTERPRETATION, SYMBOLISM, AND COLOR PERCEPTION, SO INFORMATION DESIGN MUST CONSIDER CULTURAL CONTEXT TO ENSURE MESSAGES ARE UNDERSTOOD CORRECTLY ACROSS DIVERSE USER GROUPS.

ADDITIONAL RESOURCES

HUMAN FACTORS IN INFORMATION DESIGN: ENHANCING USER EXPERIENCE AND COMPREHENSION

HUMAN FACTORS IN INFORMATION DESIGN PLAY A PIVOTAL ROLE IN SHAPING HOW INDIVIDUALS INTERACT WITH, INTERPRET, AND UTILIZE DATA PRESENTED ACROSS VARIOUS PLATFORMS. AS INFORMATION BECOMES INCREASINGLY COMPLEX AND ABUNDANT, THE CHALLENGE IS NO LONGER JUST ABOUT ACCESS BUT ENSURING THAT THE DESIGN OF INFORMATION ALIGNS WITH HUMAN COGNITIVE CAPABILITIES, BEHAVIORAL TENDENCIES, AND ERGONOMIC NEEDS. THIS INTERSECTION BETWEEN HUMAN PSYCHOLOGY AND DESIGN PRINCIPLES IS ESSENTIAL FOR CREATING EFFECTIVE COMMUNICATION TOOLS THAT PROMOTE CLARITY, REDUCE ERRORS, AND IMPROVE DECISION-MAKING.

THE CONCEPT OF HUMAN FACTORS ENCOMPASSES A MULTIDISCIPLINARY APPROACH INVOLVING COGNITIVE PSYCHOLOGY, ERGONOMICS, USABILITY ENGINEERING, AND VISUAL COMMUNICATION. INFORMATION DESIGN, WHEN VIEWED THROUGH THIS LENS, EVOLVES FROM MERELY PRESENTING DATA TO CRAFTING EXPERIENCES THAT RESONATE WITH USERS' PERCEPTUAL AND COGNITIVE FRAMEWORKS. THIS ARTICLE DELVES INTO THE NUANCES OF HUMAN FACTORS IN INFORMATION DESIGN, EXAMINING HOW IT INFLUENCES USABILITY, ACCESSIBILITY, AND OVERALL USER ENGAGEMENT IN DIGITAL AND PHYSICAL ENVIRONMENTS.

UNDERSTANDING HUMAN FACTORS IN INFORMATION DESIGN

AT ITS CORE, HUMAN FACTORS IN INFORMATION DESIGN SEEK TO OPTIMIZE THE INTERACTION BETWEEN HUMANS AND INFORMATION SYSTEMS BY TAILORING DESIGN ELEMENTS TO HUMAN CAPABILITIES AND LIMITATIONS. THIS INVOLVES A DEEP UNDERSTANDING OF HOW PEOPLE PROCESS INFORMATION, INCLUDING ATTENTION SPAN, MEMORY CONSTRAINTS, SPATIAL REASONING, AND LANGUAGE COMPREHENSION. WHEN DESIGNERS INCORPORATE THESE ELEMENTS EFFECTIVELY, THE RESULT IS AN INTUITIVE AND EFFICIENT FLOW OF INFORMATION THAT MINIMIZES COGNITIVE LOAD.

One key aspect is cognitive load theory, which suggests that overloading users with excessive or poorly organized information can hinder learning and decision-making. Designers must therefore prioritize simplicity and relevance, ensuring that the information hierarchy is clear and that visual cues guide users naturally through

CONTENT. FOR EXAMPLE, THE USE OF WHITESPACE, TYPOGRAPHY, AND CONTRAST CAN SIGNIFICANTLY INFLUENCE HOW QUICKLY AND ACCURATELY USERS INTERPRET DATA.

THE ROLE OF PERCEPTION AND ATTENTION

HUMAN PERCEPTION IS SELECTIVE AND INFLUENCED BY VARIOUS FACTORS SUCH AS COLOR, SHAPE, SIZE, AND MOTION.

INFORMATION DESIGNERS LEVERAGE THESE PERCEPTUAL CUES TO HIGHLIGHT CRITICAL DATA POINTS AND ORGANIZE CONTENT
LOGICALLY. UNDERSTANDING VISUAL HIERARCHY IS CRUCIAL; ELEMENTS THAT STAND OUT VISUALLY ARE PROCESSED FASTER
AND REMEMBERED MORE EFFECTIVELY.

ATTENTION IS INHERENTLY LIMITED, AND DISTRACTIONS CAN REDUCE THE ABILITY TO FOCUS ON ESSENTIAL INFORMATION.

DESIGNING FOR SUSTAINED ATTENTION INVOLVES MINIMIZING UNNECESSARY ELEMENTS AND USING TECHNIQUES SUCH AS CHUNKING INFORMATION INTO MANAGEABLE SECTIONS. INTERACTIVE ELEMENTS, WHEN USED JUDICIOUSLY, CAN ALSO ENGAGE USERS WITHOUT OVERWHELMING THEM.

ERGONOMICS AND ACCESSIBILITY CONSIDERATIONS

ERGONOMICS IN INFORMATION DESIGN EXTENDS BEYOND PHYSICAL COMFORT TO ENCOMPASS HOW USERS INTERACT WITH DIGITAL INTERFACES OR PRINTED MATERIALS. WELL-DESIGNED INFORMATION SHOULD ACCOMMODATE DIVERSE USER NEEDS, INCLUDING THOSE WITH DISABILITIES. ACCESSIBILITY STANDARDS, SUCH AS THE WEB CONTENT ACCESSIBILITY GUIDELINES (WCAG), EMPHASIZE THE IMPORTANCE OF DESIGNING FOR SCREEN READERS, COLOR BLINDNESS, AND MOTOR IMPAIRMENTS.

EFFECTIVE HUMAN FACTORS INTEGRATION MEANS CONSIDERING FONT SIZES, COLOR CONTRASTS, AND NAVIGATIONAL STRUCTURES THAT FACILITATE EASE OF USE. FOR INSTANCE, SANS-SERIF FONTS ARE GENERALLY EASIER TO READ ON SCREENS, AND HIGH CONTRAST BETWEEN TEXT AND BACKGROUND IMPROVES LEGIBILITY. ADDITIONALLY, TOUCH TARGETS ON MOBILE DEVICES NEED TO BE SUFFICIENTLY LARGE TO PREVENT INPUT ERRORS.

PRACTICAL APPLICATIONS OF HUMAN FACTORS IN INFORMATION DESIGN

THE IMPACT OF HUMAN FACTORS IS EVIDENT ACROSS MULTIPLE DOMAINS, FROM HEALTHCARE TO TRANSPORTATION, WHERE INFORMATION DESIGN CAN BE A MATTER OF SAFETY AND EFFICIENCY. IN MEDICAL SETTINGS, FOR EXAMPLE, POORLY DESIGNED CHARTS OR ELECTRONIC HEALTH RECORDS CAN LEAD TO MISINTERPRETATION AND ERRORS. INCORPORATING HUMAN FACTORS ENSURES THAT VITAL INFORMATION IS CLEAR, ACCESSIBLE, AND ACTIONABLE.

In digital product design, user interface (UI) and user experience (UX) professionals rely heavily on human factors principles to create intuitive navigation flows and reduce user frustration. This includes the strategic placement of buttons, use of familiar icons, and feedback mechanisms that inform users about system status.

DATA VISUALIZATION AND HUMAN FACTORS

DATA VISUALIZATION EXEMPLIFIES THE IMPORTANCE OF HUMAN FACTORS IN INFORMATION DESIGN. COMPLEX DATASETS MUST BE TRANSLATED INTO VISUAL FORMATS THAT FACILITATE QUICK UNDERSTANDING WITHOUT SACRIFICING ACCURACY. DESIGNERS MUST CONSIDER WHICH CHART TYPES BEST REPRESENT THE DATA AND HOW COLOR CODING OR ANNOTATIONS CAN HELP USERS IDENTIFY TRENDS AND OUTLIERS.

RESEARCH INDICATES THAT INTERACTIVE VISUALIZATIONS, WHICH ALLOW USERS TO FILTER OR DRILL DOWN INTO DATA, ENHANCE ENGAGEMENT AND COMPREHENSION. HOWEVER, EXCESSIVE INTERACTIVITY CAN ALSO DISTRACT OR CONFUSE, UNDERSCORING THE NEED FOR BALANCE.

CHALLENGES AND LIMITATIONS

DESPITE ITS BENEFITS, INTEGRATING HUMAN FACTORS INTO INFORMATION DESIGN PRESENTS CHALLENGES. DIVERSE USER POPULATIONS MEAN THAT WHAT WORKS WELL FOR ONE GROUP MAY NOT SUIT ANOTHER, NECESSITATING EXTENSIVE USER RESEARCH AND TESTING. ADDITIONALLY, DESIGNERS MUST NAVIGATE CONSTRAINTS SUCH AS TECHNICAL LIMITATIONS, BUDGET, AND CLIENT REQUIREMENTS.

ANOTHER LIMITATION IS THE EVOLVING NATURE OF TECHNOLOGY AND HUMAN BEHAVIOR. AS NEW DEVICES AND INTERACTION PARADIGMS EMERGE, HUMAN FACTORS PRINCIPLES MUST ADAPT ACCORDINGLY. FOR EXAMPLE, THE RISE OF VOICE INTERFACES INTRODUCES DIFFERENT CONSIDERATIONS FOR INFORMATION DELIVERY THAN TRADITIONAL VISUAL DISPLAYS.

FUTURE DIRECTIONS IN HUMAN FACTORS AND INFORMATION DESIGN

LOOKING AHEAD, ADVANCES IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING OFFER PROMISING AVENUES FOR PERSONALIZED INFORMATION DESIGN THAT DYNAMICALLY ADJUSTS TO INDIVIDUAL USER NEEDS AND PREFERENCES. THIS COULD REVOLUTIONIZE HOW HUMAN FACTORS ARE APPLIED BY ENABLING REAL-TIME ADAPTATION BASED ON COGNITIVE LOAD OR EMOTIONAL STATE.

Moreover, the increasing emphasis on inclusive design suggests that future information systems will prioritize universal usability, ensuring equitable access regardless of ability or context. This shift will likely deepen the collaboration between human factors experts, designers, and technologists.

In SUM, HUMAN FACTORS IN INFORMATION DESIGN REMAIN A CRITICAL CONSIDERATION FOR ANY ENDEAVOR INVOLVING THE COMMUNICATION OF COMPLEX DATA. BY MARRYING SCIENTIFIC UNDERSTANDING OF HUMAN BEHAVIOR WITH CREATIVE DESIGN SOLUTIONS, IT IS POSSIBLE TO CREATE INFORMATION ENVIRONMENTS THAT ARE NOT ONLY FUNCTIONAL BUT ALSO EMPOWERING.

Human Factors In Information Design

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human factors in information design: Designing Information Joel Katz, 2012-08-20 The book itself is a diagram of clarification, containing hundreds of examples of work by those who favor the communication of information over style and academic postulation—and those who don't. Many blurbs such as this are written without a thorough reading of the book. Not so in this case. I read it and love it. I suggest you do the same. —Richard Saul Wurman This handsome, clearly organized book is itself a prime example of the effective presentation of complex visual information. —eg magazine It is a dream book, we were waiting for...on the field of information. On top of the incredible amount of presented knowledge this is also a beautifully designed piece, very easy to follow...—Krzysztof Lenk, author of Mapping Websites: Digital Media Design Making complicated information understandable is becoming the crucial task facing designers in the 21st century. With Designing Information, Joel Katz has created what will surely be an indispensable textbook on the subject. —Michael Bierut Having had the pleasure of a sneak preview, I can only say that this is a magnificent achievement: a combination of intelligent text, fascinating insights and - oh yes - graphics. Congratulations to Joel. —Judith Harris, author of Pompeii Awakened: A Story of Rediscovery Designing Information shows designers in all fields - from user-interface design to

architecture and engineering - how to design complex data and information for meaning, relevance, and clarity. Written by a worldwide authority on the visualization of complex information, this full-color, heavily illustrated guide provides real-life problems and examples as well as hypothetical and historical examples, demonstrating the conceptual and pragmatic aspects of human factors-driven information design. Both successful and failed design examples are included to help readers understand the principles under discussion.

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human factors in information design: <u>Information Design</u> Robert Jacobson, 2000-08-25 The contributors to this book are both cautionary and hopeful as they offer visions of how information design can be practiced diligently and ethically, for the benefit of information consumers as well as producers. Information design is the newest of the design disciplines. As a sign of our times, when the crafting of messages and meaning is so central to our lives, information design is not only important—it is essential. Contemporary information designers seek to edify more than to persuade, to exchange more than to foist upon. With ever more powerful technologies of communication, we have learned that the issuer of designed information is as likely as the intended recipient to be changed by it, for better or worse. The contributors to this book are both cautionary and hopeful as they offer visions of how information design can be practiced diligently and ethically, for the benefit of information consumers as well as producers. They present various methods that seem to work, such as sense-making and way-finding. They make recommendations and serve as guides to a still young but extraordinarily pervasive—and persuasive—field. Contributors Elizabeth Andersen, Judy Anderson, Simon Birrell, Mike Cooley, Brenda Dervin, Jim Gasperini, Yvonne M. Hansen, Steve Holtzman, Robert E. Horn, Robert Jacobson, John Krygier, Sheryl Macy, Romedi Passini, Jef Raskin, Chandler Screven, Nathan Shedroff, Hal Thwaites, Roger Whitehouse

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ergonomics researchers, practitioners, and graduate students. Each chapter has a strong theory and scientific base, but is heavily focused on real world applications. As such, a significant number of case studies, examples, figures, and tables are included to aid in the understanding and application of the material covered.

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From Software Engineering to Information Design • Yvette Shen Most academic methodologies are developed from a prescribed methodological process that is limited to a specific area of study. However, the disciplinary landscape in which the knowledge is established is being rapidly reconfigured. Given the vast varieties of practices and knowledge base required from information designers, it is even more crucial for them to look outside of the traditional visual design fields and seek diversities for better research and creation methods. The two disciplines, software engineering and information design, are often perceived as one provides technical solutions to the other. This essay intends to move beyond the common perception, and identify relevant issues in software engineering design that resonate with the information design process. The issues include the multi-component planning approach; the human-oriented agile method; design concepts such as abstraction, decomposition, component modularity, hierarchical relationship and extensibility. The perspectives from software engineering design and information design is examined through units of analysis, terminology explanations and forms of communications. The collective design methods and principles provide a systematic framework to the methodological thinking in information design. The discussion serves the purpose of encouraging more conceptual-based conversations between information design and other disciplines, especially in the fields of science and technology. Designing Information for Artificial Intelligence: Path Recommendation and User Acceptance in a Virtual Space • Jong Myoung Lee, Kyung Hoon Hyun In this study, the authors propose two information layout strategies (informative layout and decisive layout) that influence the user acceptance rate on recommended information. The informative layout is the degree of descriptions in the recommendation process. The decisive layout is the degree of choices in recommendations. Thus, the objective of the paper is to discover how users' acceptance of a recommendation changes when the recommendation is displayed in different degrees of informative and decisive layouts. To this end, we have conducted the following tasks: (1) sophisticated software was created with JavaScript to conduct experiments with users online; (2) experiment subjects (N=247) with various education and demographic levels were recruited; (3) user acceptance rate depending on the information layout strategy was collected; (4) the relationships between information layout strategy and user acceptance of the recommended information were computationally analyzed. The results of the study indicate that the information layout strategy proposed in this research significantly influences user acceptance of the recommended information. Also, this research identified effective combinations of informative and decisive layouts to maximize the user acceptance. The Research on Design Framework for Citizen Science • Zhiyong Fu, Jia Lin, Lu Wang Citizen science is a process in which ordinary citizens contribute to scientific research. How to create citizen science design framework to achieve better awareness, initiative and action is our research focus. This paper will explore citizen science design in the context of smart city, on the basis of activity theory and by means of digital social innovation. "Smart City" concept provides new elements including social communication, collaborative design and innovative community to citizen science. With the rapid development of science and information and communication technologies (ICTs) and with the arrival of Web 2.0, social innovation is endowed with digital factors so as to be evolved to digital social innovation (DSI) which gives various design perspectives on citizen science and also plays an important part in establishing citizen science evaluation model. In this paper, a citizen science design framework consisting of citizen science content model, design model and evaluation model is proposed by discussing related theories, models and citizen science cases. It acts as not only design lead to inspire two citizen science case practices, but also an evaluation term in the view of citizen science. The framework and models developed in this research will hopefully be leveraged and refined to support citizen science design in the future. Finding the Expectations of Smart Home and Designing the Meaningful Technology for Delivering Customers' Satisfaction • Yaliang Chuang, Lin-Lin Chen, Yu-Shan Athena Chen Smart home is becoming a focus in both literature and product development practices. The current study employed a human-centered design approach to understand users' desires and expectations from their living context. Six critical themes were developed via in-deep interviews, field observations and data analysis. They are housed as a

supportive friend, atmosphere generator, theme songs for every moment, coordinator and reminder, life memory collector and routine builder for young generations. Those concepts were partially integrated to define the value proposition for the target user group of parents with young children. This guides the design ideation and video prototyping to illustrator the user experiences. Through a focus group discussion, the design concepts were validated with six potential customers. The results also show that the design concept has the potential to motivate children's behaviors, help to build their routine, and has the flexibility to fulfill different needs toward the changes of the family's life cycle. Using Frame Analysis to Organize Designers' Experience on the Cloud • Julija Naskova This paper demonstrates how Goffman's frame analysis is applied in a research on designers' experience with Cloud-based digital tools. At the base of Goffman's structure is the "primary frame" - in this case designers' experience with computer-based digital tools. These tools' transition to the Cloud initiated by business are called "fabrications." Goffman's "structural issues in fabrication" such as "retransformations" and the "nature of recontainment" are also discussed through contemporary examples. These fabrications are used or "keyed" by "active agents" from various design fields. The data collected showed different levels of understanding of Cloud technology and the application of various tools in everyday design practices. Thus, the interviewees were clustered into three groups designers, developers and artists. Their experiences form the creative, technology and experimental frame derived from keying of the primary frame. Design researchers can selectively borrow elements from frame analysis' complex structure to build an effective user experience narrative. (Un)intended Value Implications of Graphical Representations of Data • Milena Radzikowska, Stan Ruecker The design of meaningful graphical objects to represent collection items must balance the following: amount of useful information that can be communicated through the object's graphical form, meaningful graphical difference between individual items or groups of items, and restraint in form complexity to allow for the simultaneous display of numerous collection items at a small size. How the user interprets difference and sameness and, more importantly, whether the user attaches hierarchical value to the emergent categories, may play a significant role in determining whether that user focuses attention on one set of data over another, on one set of processes over another, and ultimately, on one set of tasks over another. This paper examines the significant consequences for the understanding of the user resulting from representation of data, files and other objects in a human-computer interface (HCI), and proposes that new approaches may be indicated, given the growing complexity of what is being represented and how what is represented can be used. Mapping Communication Design through the Web • Giulia De Rossi, Paolo Ciuccarelli Design is by nature an interdisciplinary, dynamic and fluid discipline. To define what design is has proved to be a very difficult - if not impossible and meaningless - exercise, making also the understanding of the evolution of both the design discipline and practice a complex challenge. A rapidly changing technological landscape increases the breadth of design both in geographical terms and by extending to new domains, merging with different and new disciplines. Communication Design especially, being closer to the information and the media spheres, is the most sensitive and receptive design area. Communication Design finds online a fertile ground for its growth and developments, thus the online environment and the Web especially can be explored, dug and mapped as mirrors of that evolution. The aim of our research is to map through the Web the complexity of the intersections between design as a discipline and design as a field of practice. Our exploration and representation of the online design territory covered four online environments: Behance, Wikipedia, Google and the websites of the top 100 design universities. The study has been conducted by using digital, statistical and visualization methods. This exploration seeks neither to confirm theories nor predict the future, rather, it wants to make explicit and observable what Communication Design has become today. It aims to screenshot the state of the art, the emerging paths, in order to understand where and how it is going to develop. The attempt is to make design as a complex phenomenon visible, through the construction of a set of maps and representations for professors, students and associations. These representations are tools to trigger reflections on the discipline and the profession, bringing a contribution to the experimental research in this field. A Content Analysis of

Wired Magazine and Self-Tracking Devices • Serefraz Akvaman Living in a modern society is becoming more complex, so in order to keep up with, a person should accomplish various kinds of task at once. Daily life requirements, obligations and the capacity of human memory lead us to collect and control our behaviors, bodies and lives through self-tracking devices. Aim of this paper analysis of emerging digitalized self-tracking trend through content analysis of Wired Magazine. Wired Magazine, both in printed and online, monthly, publish technology-related articles how emerging technologies affect culture, the economy and politics. It reaches more than 30 million people each month through wired.com, digital edition. Since the term "quantified self" emerged for the first time in Wired Magazine, for this reason Wired Magazine is one of the most important sources to be used for content analysis. This present study carries out a content analysis of all the issues until December 2016 through "self-tracking" and two other related terms: "guantified self" and "lifelogging." The usage period and popularity of these terms and, the relation network with the main topics and the subtopics are examined. As a result, it is possible to define Wired Magazine as a medium in which industry-academia and users come together and, feed each other reciprocally. Wired Magazine has contributed significantly and continues to contribute to the development of the digitalized self-tracking trend in terms of its content. Interaction Design and Use Innovation for Interactive Products • Geehyuck Jeong, James Self Product use innovation is a means to facilitate the design-driven innovation approach. We explore how the mode-of-use concept may apply to state-of-the-art product interactions to enhance user experience and provide opportunities for design-driven innovation within the interactive product space. To achieve this we apply taxonomy of interactions to classify interaction styles as along the two dimensions explanatory or exploratory and discrete or composite. Adopting the research through design approach two interactive mood lamps were developed and expressed as high-fidelity prototypes. These were then used as stimuli to evaluate the influence of interaction style on product experience. Results indicated the touch-free magic interaction style, an interaction providing explorative and composite modes of interaction, was initially considered more innovative in terms of use. However, participants also expressed negative emotions related to dissatisfaction and embarrassment toward the touch-free magic interaction due to an inability to intuitively understand the use functions. Implications for the application of use innovation within the interactive product context are finally discussed. Study of the Implementability of Tactile Feedback While Operating Touch Panel Device: From Two Directions of Efficacy and Feasibility • Jien Wakasugi, Masayoshi Kubo In a few years, the number of apparatuses with touch panel displays like smartphones will increase. People who are visually impaired, hearing impaired and disabled can use tactile feedback for receiving incoming communications. However, opportunities for tactile feedback applications are limited. Our hypotheses follow: as there are haptics patterns suitable for use cases, we will design haptics samples of tactile feedback and inspect their effectiveness. This study focuses on haptics patterns showing a relationship between the user's impression and various use situations. Previous studies have been insufficient, so our target subjects inspected a limited number of objects. This study consists of two inspections: • We collected various haptics patterns that users had defined and analyzed the first inspection. For the next inspection, we manufactured a smartphone prototype. We matched the impression of eight haptics patterns types that we got from the subjects in the first analysis with different situations and tested various replies. Tests were repeated and recorded for various situations. As different haptics vibrations were added to e-mails, we inspected whether subjects could distinguish a difference in their meanings. Thus, we added different haptics patterns that corresponded to various situations. We concluded the hypothesis was effective for subjects. We could inspect the hypotheses in relation to subjects' impressions of the haptics pattern. • Additionally, we obtained different results between elders and youths. Consequently, we suggested design guidelines for the new tactile feedback of the smartphone application. We suspect that haptics will be possible for a variety of interactive designs. Sensory Reflection toward Product Design Ideation • Pratiksha Prabhakar, Heekyoung Jung, Vittoria Daiello As humans' information processing abilities, have become more and more disconnected from their senses due to an

increasing quantity of abstract information, so have design processes. There is a demand for designers to include human sensation as part of engaging product forms and experiences. This qualitative case study explores the role of senses and their potential use in design ideation. A literature review of related theoretical and pragmatic perspectives and a survey of 15–20 product examples that provide unique sensory experiences are analyzed and sorted through four sensory design strategies: Sensory Augmentation, Conversion, Transition and Isolation. Using the four strategies as core concepts, a Sensory Reflective Framework with a mindful focus on sensory appreciation and translation is proposed to support designers' ideation in creating unique product forms and experiences. The paper reports the process and findings of a sensory ideation workshop which was conducted based on the framework, and further discusses the development and implications of the framework in supporting designers' sensory ideation.

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