



# Human Computer Interaction

HCI. Also known as [ComputerHumanInteraction](#) (CHI), depending on where you are.

Basically the study of usability and how to improve interfaces. Techniques involve watching and/or recording users as they use a program (or cheaper, a prototype or mock-up), making measurements based on those observations (such as how long it takes to complete some task), and making recommendations for the next version or prototype.

Resources:

- The [HumanComputerInterface](#) listing at the [ResearchIndex](#) (<http://citeseer.nj.nec.com/HumanComputerInteraction/>) ( [BrokenLink](#) - 20140510 )
- ACM Digital Library check out proceedings>CHI (need an ACM account but its good) <http://portal.acm.org/dl.cfm>
- Usability News <http://www.usabilitynews.com/>

Navigation in Electronic Worlds: Research Review seems to be an interesting paper, explaining basic concepts such as metaphor, types of metaphor (orientational and ontological), criteria for utility of metaphors, et cetera. (<http://citeseer.nj.nec.com/modjeska97navigation.html>)

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The book [TheInmatesAreRunningTheAsylum](#) examines why even good [SoftwareEngineers](#) are usually bad HCI designers. Also see [BooksOnUserCenteredDesign](#).

Physical metaphors are very important in UI design, but this tends to be an oddly neglected topic. Here's a recent short paper on the topic: Interface Ontology: Creating a Physical World for Computer, [http://www.mcs.vuw.ac.nz/~chikken/research/papers/europlop2003/barr\\_europlop2003.pdf](http://www.mcs.vuw.ac.nz/~chikken/research/papers/europlop2003/barr_europlop2003.pdf)

Skimming it quickly makes it look like it says some basic reasonable things on the topic, even though I was highly annoyed at two things: first, it opened with a belabored "gee whiz, computers are too complex for *anyone* to understand completely" claim (true if no one understands light bulbs, either; false otherwise), and secondly, it's not saying anything people didn't know 20 years ago, yet it's published as new research? Anyway, still worth a look, because the topic isn't addressed very often. The very fact that it was published as new research doubtless says something about how infrequently this aspect of things is covered.

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[CategoryUserInterface](#) [CategoryInteractionDesign](#)

Last edit May 10, 2014. See [github](#) about remodeling.