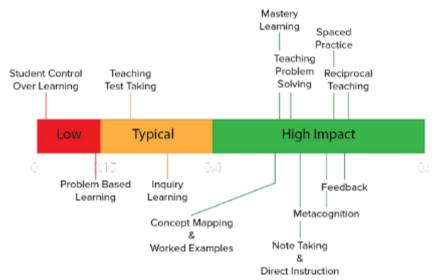
WEEK 1 - INTRO

- ->Design->implement->evaluate->analyze->
- What makes it hard to create usable interfaces that provide a delightful user experience?
 - Hard for designers to think like users
 - May need to understand domain
 - Context of use
 - What the user knows
 - What they have experienced
 - How they will interpret the interface elements, what they will see
 - Challenges of creating specifications
 - Some interfaces need to support complex processes
 - Design is a matter of trade-offs
 - Evolution of purposes...and of software
 - Legal IP issues may restrict options
 - Existing how-to theories and guidelines are weak
- User experience UX
 - Usability ISO standard till recently
 - Learnability --> How easy is it for users to accomplish basic tasks the first time they encounter the design
 - Efficiency --> Once users have learned the design, how quickly can they perform tasks
 - Memorability --> When users return to the design after a period of not using it, how easily can they reestablish proficiency
 - Errors--> How many errors do users make, how severe are these errors, and how easily can they recover from the errors
 - Satisfaction --> how pleasant is the design
 - Definition Usefulness = usability + utility
 - Definition Utility = whether it provides the features you need
 - Definition Usability = how easy and pleasant these features are to use
 - "usability and utility are equally important and together determine whether something is useful"
 - · Relevant to regular ongoing use, learning, infrequent use
 - Use by people with the widest range of capabilities
 - Important for development, procurement, review or comparison and marketing and market research
 - Misconceptions include
 - Usability as an after-thought at the end in terms of testing only or adding some glitz
 - Usability as only about colours and visual effect...artistic aspects as opposed to enabling people to complete the tasks
 - Expect to learn some rigid rules, like the syntax of a programming language and follow them to create usable interfaces
 - Affect, satisfaction, emotional impact, fun
 - UX is about moving "user satisfaction" to the centre
 - Emotional and visceral response
 - Fun(hedonic response), exciting
 - Artistic appeal
 - Match to fashions and user expectations (or not): surprising, boring
 - Gestalt (Overall feeling)
 - Recent definition 2018 ISO standard Usability is the extent to which a system, product, or service can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use.
 - Usability is relevant to
 - Regular ongoing use to enable users to achieve their goals effectively, efficiently and with satisfaction
 - Learning to enable new users to be effective efficient and satisfied when starting to use a system, product or service
 - Infrequent use to enable users to be effective efficient and satisfied with the system on each reuse
 - Use by people with the wildest range of capabilities
 - Minimalizing the risk and the undesirable consequences of use errors
 - Maintenance, in that it enables maintenance tasks to be completed effectively, efficiently and with satisfaction
 - Usability is relevant when designing or evaluating interactions with a system, product or service for the purpose of (development, procurement, review or comparison; and marketing and market research)
- Concept mapping
 - Definition is a way to show your understanding, showing the key ideas relevant to a focus question

- Contains concepts and propositions (define contain two or more concepts connected using linking words or phrases to form a meaningful statement.
- How
 - Identify key concept first and write them in a list
 - Put the most general/central concept at the top
 - Use vertical position to show level of detail (general at the top, detailed at the bottom)
 - Similar things should be placed near each other
 - Draw linking lines, each with a label to form propositions



IMPORTANT TERMS

- Goal something a person wants to do
- Abstract task we use this as a synonym for goal
- Goal/task hierarchy subtasks (e.g how many steps walked, how active, how inactive)
- Concrete task something you can ask a person to do, (e.g for a particular dataset how many steps did i walk each day of the last week)

Analysis report

- Detailed notes from research study of people's current use of smartphone physical activity data and how they believe it could be useful to them
- Study of the literature tools and resources about using physical data
- Summary and conclusions
- Properties of good concrete tasks
 - They are concrete
 - A user understands what to do after reading them
 - You can judge success
 - There should be a clear start and a clear end at which point you can assess whether the user was able to do
 the task successfully
 - They do not lead the user
 - Tell WHAT to do, not HOW to do
 - They are relevant
 - Users of your real system would be expected to do them
 - The set of tasks gives good coverage
 - Frugal, each task tests different things
 - Effective, each task covers an important aspect
 - They are the right level of difficulty
 - Start with easy tasks, Time the test and tell the user ahead of time an estimate of the duration
 - They are respectful and avoid offending the user
 - Humour is dangerous
- Example of concrete task
 - Suppose you want to work out, how many kilojoules you should be eating for a healthy weight
- How to determine abstract tasks people ought to be able to do at the interface you aim to build?
 - 1.study users and what they do, 2.ask them what they would like to be able to do, 3.find out what others have already done to discover 1 and 2