Web revolution and its potential

- what is internet?
- what is web?
  - spec is made by tim berners lee
- web development
  - its a buzz word
    - marketing language
    - no scientific/formal definition
    - many perspective
  - web 1.0
    - intro
      - first gen
      - 1990-2000
    - characteristics
      - one way interaction
        - static reading
        - static contact form
      - not interactive
      - no searching feature in the apps — this leads to yahoo/google
    - technologies
      - static html
      - javascript
      - CGI
      - multimedia: audio, video, pictures, VRML
    - is it bad to have web 1.0? — not really....
  - web 2.0
    - intro
      - the term made by "Dale Dougherty" (oreilly) 2005
      - second gen
      - 2000-now — why 2000 2k?
      - the separation isn't always clear
      - not many people agree
      - helped by wider & deeper internet penetration
    - characteristics
      - Web as an applications platform
        - 2 way interaction — blog, facebook
        - database-driven apps
          - dynamic pages
          - can provide "search"
        - multiplatform site — google, yahoo, your own platform
        - users doesn't have to buy software to use the service
        - rich user experience
          - drag & drop
          - auto complete
          - chatting
          - voice
          - friendly URL
        - cloud computing — internet is the computer
        - more and more APIs are provided — google, fb, yahoo, twitter
      - Democratizing the Web
        - participation-driven apps
          - wiki, youtube, kompas citizen
          - info can be mislead, inaccurate
          - collective intelligence
        - user can comment the page
        - the use of tag instead of directory
        - the use of opensource software
      - new methods to distribute information
        - web syndication — rss feed
        - free platform for expression
          - blogs: wp, bs, tw
          - audio — podcast
          - vblog
        - friendly URL
          - permalink
          - URL shortener
    - technologies
      - preprocessor (can be heavy processing)
        - PHP
        - ASP
        - JSP
      - Database
      - XML
      - CSS
      - ajax
        - no need to reload whole pages
        - YUI
        - jquery
        - scriptalous
      - multimedia: flash
    - features
    - main differences
  - web 3.0
    - intro
      - still wondering what happened
      - starting 2010-future
      - mixed between telco and IT
      - bandwidth eater
    - how does it look like?
      - search engines view
        - apps will understand human more better
        - easy to search information
        - rely heavily on search engines
        - currently — it's easy to plagiarise
        - can act like personal asistant
          - like / dislike
          - activity records
        - become semantic search
        - more selective when display the result
        - will understand what you really mean
        - could diff between context & keywords
        - research opportunity?
    - approaches
      - advanced search engines
      - API — there will be a lot of application provide the services
      - from computer network -> human network
      - create mashup apps — combination from apps
      - create completely new — new language instead of HTML
      - create semantic web
        - currently website if for human not computer
        - but the one who search the websites is computer
        - ontologies
          - relation of objects
          - use tags
      - 3D web — provide the real sites
      - cloud computing
- some views
  - dot.com owner — infrastructure invesment
  - system engineer — OS & application
  - developer
    - more to learn
    - use API a lot
    - client compatibility testing
  - user
    - no cost
    - just learn how to use it