

# Index

## A

Acela train service (Amtrak), 99

Adler, Deborah

design potential, 116–117

experience strategies, 31–32

prototyping, 138

Aeron Chair (Herman Miller), 10

aesthetic aspect of design, 9

Agile development models, 157–161

building prototypes, 167–168

embedded and networked systems,  
164–166

experimentation, 171

guidelines, 170

iterative approaches, 161–162

reducing friction of iteration,  
168–169

Lean Manufacturing, 156–157

obstacles, 167

open communication, 169

use by companies, 162–164

Waterfall, 154–156

Agile Manifesto, 153–154

*All Marketers Are Liars: The Power of*

*Telling Authentic Stories in a*

*Low-Trust World*, 46

Altavista search engine, 145

Amazon.com, 109

API free usage, 147

Amtrak's Acela train service, 99

Apple

G4 Cube computer, 10

iPhone

introduction, 12

Long "Wow!"; 141

iPhoto software, 91

iPod

great ideas, 129

introduction, 12

Nike + iPod Sports Kit, 142, 165

success factors, 83–85

Touch model, 88

iTunes, 85–86

Party Shuffle, 87

Soundflavor, 130

iTunes Store, 86–87

third largest music retailer, 109

Jobs, Steve, 11–12

experiential focus, 26

loyalty programs, 139

Newton, 33

optimization practices, 119

product/service

development approach, 97–98

focus, 87–88

prototyping of retail store, 138

support of MP3 format, 93

transitioning into new businesses, 175

artifacts in research, 74–76

ATRAC3 format (Sony), 93

Audrey (3Com), 125

## B

Bain and Company, 111  
Barnes and Noble superstores, 109  
Bellah, Robert, 53  
Berkun, Scott, 133  
Best Buy, 175

- music retailers, 87
- optimization practices, 119

Blockbuster, 101, 145  
Blogger, 91  
*Blue's Clues* (Nickelodeon), 113  
Boeing's Sonic Cruiser, 167–168  
Bose, 119  
BPR (Business Process Reengineering), 18, 19, 119  
Brand, Stewart, 101  
brand strategies *versus* experience strategies, 29–31  
Brown, Tim, 135  
Business Process Reengineering. *See* BPR  
*Business Week*

- ethnography, 66
- 3M, 107
- Mobile ESPN, 125
- people in research process, 81

## C

Calendar

- Google, 27–28
- MSN, 27–28
- Yahoo, 27–28

camera (Eastman Kodak). *See* Kodak camera  
Carbone, Lou, 29  
CarsDirect web site, 137  
Castells, Manuel, 50  
CD and audiotape players, 83  
Center for Bits and Atoms (MIT), 166  
Chicago Police Department, 147, 148

ClearRX pill bottles (Target), 31–32

- design potential, 116–117
- prototyping, 138

*The Cluetrain Manifesto*, 44, 46  
CNN.com, 146  
Compaq

- internet appliances, 125

competition

- feature matrices, 20
- history, 18–20
- novelty's role, 22–24
- strategies
  - parity, 20–22

Consumer Experience Design (Motorola), 120  
containerization, 3  
Cooper, Dr. Robert G., 125  
Craigslist, 109

- HousingMaps service, 147

customers

- blending of views, 49–50
- complex relationship with products and services, 50–51
- as consumers, 44
- design approaches, 7
- as designers, 146–149
- empathy for, 38, 39–43
- homo economicus, 47–48
- importance to businesses, 43–44
- product development
  - behaviors of customers, 55–58
  - culture and context, 53–55
  - emotion, 51–52
- as sheep, 44–46
- tasks and goals view of, 48–49

## D

Darden, 127  
Davis, Natalia, 145

- Dell Computers, 175
    - optimization practices, 119
    - supply chain, 18–19
  - Delta’s Song Airlines, 126
  - design competency
    - advantages, 123–131
    - failures
      - of good execution, 125–126
      - of traditional tools, 124–125
    - guidelines for success, 127–130
  - Design for Six Sigma, 124
  - design process
    - as activity, 11
    - aspects of, 9–10
    - within context of systems and strategy, 118–119
  - decision-making, 114–115
  - designing *versus* controlling
    - experiences, 144–146
  - generative, 113–114
  - humanistic, 113
  - and ideas, 131–134
    - with experience, 135–136
    - Long “Wow!”, 138–144
    - tangible ideas, 137–138
  - increasing importance, 8–9
  - misconceptions, 115–116
  - as organizational competency, 119–120
    - competitive competency, 123
    - embedding design, 120–123
  - potential, 116–117
  - design research, 62, 72–74
    - artifacts, 74–76
    - versus* market research, 69–70
    - personas, 74–76
    - prototypes, 76–77
    - successful approaches, 83–87
  - Diamond Rio players, 105
  - digitization, 3
  - Disney
    - brand strength, 119
    - experiences design, 121
  - Doblin, 124
  - Duncan, Alan, 122, 123
  - DVRs
    - and TiVo, 13–14
  - Dyson, James, 134
  - Dyson vacuum cleaners, 134
- ## E
- Eames, Charles, 118
  - Eastman, George, 81
    - camera inventor, 6
  - Eastman Kodak camera. *See* Kodak camera
  - EasyShare (Kodak), 100
  - eBay
    - API free usage, 147
    - Epinions.com, 37
  - economics *versus* homo economicus, 47–48
  - Einstein, Albert, 58
  - embedded systems in Agile development, 164–166
  - emotion
    - product development, 51–52
  - Emotional Design*, 51–52
  - empathy, 38, 39–43
  - Epinions.com, 37
  - ethnography, 65–66
  - evaluative research, 62
  - Everything is Miscellaneous*, 175
  - Everyware; The Dawning Age of Ubiquitous Computing*, 99
  - Excite search engine, 145
  - experience design, 29–31
    - new, better, different problems, 109–111
    - obstacles to adoption, 105–107
    - systemic coordination, 108–109

experience of customers  
  basis of, 17  
  ignored, 111–112  
  maintaining focus, 26–28  
  reasons for importance, 25–26  
  TiVo, 13–14

experience strategies, 26  
  *versus* brand strategies, 29–31  
  effective strategies, 34  
  research requirements, 61–63

## F

Fabrication Laboratory (MIT), 166  
Fake, Caterina, 131  
*Fast Company*, 81  
FedEx, 129  
film (roll) for cameras, 6  
Flickr, 37, 91–94  
  About page, 131  
*Forbes*, 81  
Forth and Town stores (Gap, Inc.), 126  
Friendster, 37

## G

G4 Cube computer (Apple), 10  
Gap Inc.'s Forth and Town stores, 126  
Garrett, Jesse James, 27  
Gateway, 125  
General Mills, 54  
generative research, 62  
Gladwell, Malcom, 113  
Global Design Centers (Samsung), 72–73  
globalization, 3  
Gmail (Google), 27  
Godin, Seth, 46  
Good Grips Angled Measuring Cup  
  (OXO and Smart Design), 139–141,  
  142

Google  
  API free usage, 147  
  designing in real time, 135  
  experience *versus* brand strategies, 31  
  *versus* previous search engines, 145  
  transitioning into new businesses, 175

Google Calendar, 27–28  
Google Gmail, 27  
Google Maps, 147  
Greenfield, Adam, 99

## H

*Habits of the Heart*, 53  
Hackett, Jim, 127  
Harley-Davidson, 139  
*Harvard Business Review*, 127  
Hawkins, Jeff, 33  
Herman Miller's Aeron Chair, 10  
Hewlett-Packard. *See* HP  
homo economicus, 47–48  
Hotbot search engine, 145  
Hotmail (MSN), 27  
House, Chuck, 162  
HousingMaps service (Craigslist), 147  
*How Buildings Learn*, 101  
HP (Hewlett-Packard), 118, 175  
  iterative approaches, 162  
  optimization practices, 119  
  oscilloscope design, 162  
Huggies products (Kimberly-Clark), 54,  
  55

## I

IBM, Trident submarine systems, 161  
idea lab (Adaptive Path), 131–133  
IdeaLab!, 137  
IDEO, 135  
  design of Acela train service, 99  
  people in research process, 81  
  SPARC program, 122

## I

- Intel
  - internet appliances, 125
  - People and Practices group, 72–73
  - people in research process, 81
- Interactive Marketing Group, 97
- iPhone (Apple)
  - introduction, 12
  - Long “Wow!”, 141
- iPhoto software, 91
- iPod (Apple)
  - expanding product functionality, 87–88
  - great ideas, 129
  - introduction, 12
  - product/service focus, 87–88
  - success factors, 83–85
  - Touch, 88
- iterative development approaches,
  - 161–162
  - reducing friction of iteration, 168–169
- iTunes (Apple)
  - Party Shuffle, 87
  - Soundflavor, 130
- iTunes Store (Apple), 86–87
  - third largest music retailer, 109

## J

- Johnson, Kelly, 166

## K

- Kairos, Inc., 145
- Kimberly-Clark’s Huggies products, 54, 55
- Kodak camera
  - digital photography, 100
  - EasyShare cameras, 100
  - ongoing relationships with customers, 81–83
  - “photographic apparatus,” 4–7

## L

- Lean Manufacturing development
  - models (Toyota), 156–157, 163
- Liedtka, Jeanne, 127
- Lockheed’s Skunk Works, 162, 166
- Lowry, Tom, 125
- Lucente, Sam, 118–119

## M

- Mail (Yahoo), 27
- “Managing the Development of Large Software Systems,” 155
- Maps (Google), 147
- market research, 62
  - versus* design research, 69–70
- Martin, Roger, 120
- Mayo Clinic’s SPARC program, 121–123, 143
- McDonald’s Corporation
  - explorative design, 114–115
  - top-down organization, 146
- McLuhan, Marshall, 69–70
- Mercury systems software, 161
- Michalski, Jerry, 44
- Microsoft
  - internet appliances, 125
  - people in research process, 81
  - research of customers and use of products, 54
  - Zune, 88
- MIT’s Fab Lab, 166
- Mobile ESPN, 125–126
- Moore’s Law, 8
- Motorola’s Consumer Experience Design, 120
- MP3 players
  - early options, 83, 84
  - evolving into media players, 85
  - support by Apple, 93

MSN Calendar, 27–28  
MSN Hotmail, 27  
Museum of Modern Art (New York), 10  
MySpace, 37  
*The Myths of Innovation*, 133

## N

NASA's X-15 project, 161  
Netflix, 101, 145  
    great ideas, 129  
    testing ideas, 133  
NetPromoter Score, 138  
networked systems in Agile development,  
    164–166  
Nickelodeon's *Blue's Clues*, 113  
Nike  
    loyalty programs, 139  
    Nike + iPod Sports Kit, 142, 165  
Norman, Don, 51  
novelty in competition, 22–24  
NW-HD1 player (Sony), 93

## O

Ofoto, 90  
Old Spice High Endurance Hair & Body  
    Wash product (Procter & Gamble),  
    50–51  
One Laptop Per Child, 129  
On-The-Go application  
    (WeightWatchers), 143–144  
OXO's Good Grips Angled Measuring  
    Cup, 139–141, 142

## P

Packard, David, 162  
PalmPilot, 33  
Party Shuffle, Apple's iTunes, 87  
People and Practices group (Intel), 72–73  
personas in research, 74–76  
Phaeton (Volkswagen), 126

Photos (Yahoo!), 84, 90  
Picasa software, 91  
PJB-100 MP3 player, 84  
Post-It notes (3M), 106–107  
Procter & Gamble  
    Old Spice High Endurance Hair &  
        Body Wash product, 50–51  
    research of customers and use of  
        products, 54  
Product Development method (Toyota),  
    169  
product/service development  
    and customers  
        behaviors of customers, 55–58  
        complex relationship, 50–51  
        emotion factor, 51–52  
    cycles, 3  
    feature-based, 8  
    standalone, 3  
    tactics  
        coordinated or chaotic, 97–98  
        online successes, 90–94  
        over-engineering, 98–99, 101  
        services behaving like products,  
            94–96  
        successful, 83–88  
        unsuccessful, 88–90  
    technologies and features copied,  
        12–13  
prototypes in research, 76–77, 137–138  
Puma's Mongolian Shoe BBQ, 148

## Q

qualitative *versus* quantitative research,  
    63–65, 66  
    mixing methods, 71–72

## R

Rademacher, Paul, 147  
ReplayTV, 14  
reports in research, 68–69

- research
    - design process integration, 72–74
      - artifacts, 74–76
      - personas, 74–76
      - prototypes, 76–77
    - ethnography, 65–66
    - ineffective tactics, 67–70
    - market *versus* design research, 69–70
    - organizational competency, 70–71
    - quantitative *versus* qualitative research, 63–65, 66
      - mixing methods, 71–72
    - requirements for product/service development, 61–63
  - The Rise of the Network Society*, 50
  - ROI (return on investment), 47
  - Rotman School of Management, 120
  - Royce, Winston, 155
- ## S
- SafeRX pill bottles
    - design potential, 116–117
    - experience strategies, 31–32
    - prototyping, 138
  - Samsung’s Global Design Centers, 72–73
  - Scientific American*, 4
  - Scripps Networks HGTV.com, 75
  - Seattle Public Library, 29
  - Segway scooters, 23–24
  - services, developing. *See* product/service development
  - Sesame Street*, 113
  - Shutterfly, 90
  - Six Sigma, 18, 119
  - Skunk Works (Lockheed), 162, 166
  - Smart Design (with OXO) Good Grips
    - Angled Measuring Cup, 140
  - social software, 37
  - software development approaches, 153–154
  - Song Airlines, 126
  - Sonic Cruiser (Boeing), 167–168
  - Sony, 175
    - ATRAC3 format, 93
    - product/service development approach, 97–98
    - Walkman, 83
  - Soundflavor, 130
  - SPARC program (Mayo Clinic), 121–123, 143
  - SR-71 Blackbird (Lockheed’s Skunk Works), 162
  - Star Gate, 124, 125
  - Starbucks, 21
  - Steelcase, 127
  - Steve Jobs
    - Apple’s CEO, 11–12
    - experiential focus, 26
  - Supply Chain Management, 119
  - sympathy *versus* empathy, 39
- ## T
- Taco Bell, 21
  - Target’s ClearRX pill bottles
    - design potential, 116–117
    - experience strategies, 31–32
    - optimization practices, 119
    - prototyping, 138
  - tasks and goals view of customers, 48–49
  - Taylor, Edward, 18
  - Threadless online t-shirt store, 148
  - 3Com’s Audrey, 125
  - 3M
    - iterative approach, 163
    - Post-It notes and masking tape, 106–107
  - time and motion studies, 18
  - The Tipping Point*, 113

## TiVo

- versus* DVRs, 13–14
- experience *versus* brand strategies, 31
- great ideas, 129
- versus* VCRs, 165

## Toshiba, 175

## Total Quality Management, 119

## Touch model, iPod (Apple), 88

## Toyota

- Lean Manufacturing development models, 156–157, 163

- Product Development method, 169

## Trident submarine systems (IBM), 161

## Typepad, 91

## U

### U-2 (Lockheed's Skunk Works), 162

### UK Design Council

- experience design, 29–31

### United States Holocaust Memorial Museum, 29

### *USA Today*

- customers and context of using products, 54

### usability practices

- Epinions.com, 37

### user research, 62

## V

### VCRs *versus* DVRs and TiVo, 13–14, 165

### Veen, Jeffrey, 135

### Volkswagen's Phaeton, 126

## W

### Walkman (Sony), 83

### Wal-Mart, 175

- music retailers, 87

- optimization practices, 119

- supply chain, 119

### Waterfall development models, 154–156

### WeightWatchers' On-The-Go application, 143–144

### Weinberger, David, 175

### Wicks, Jim, 120

### Wi-Fi connectivity, 88

### Wilkens, Todd, 69

### WordPress, 91

## Y

### Yahoo!, 175

### Yahoo Calendar, 27–28

### Yahoo Mail, 27

### Yahoo! Photos, 84, 90

### YouTube, 88, 146

## Z

### Zune (Microsoft), 88