Design Theory and Practice

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Designing Tools for Designers

design research inform tools for design
Designing Tools for Designers

design research

theory practice

inform

tools for design
Designing Tools for Designers

- design
- research
- theory
- practice

Inform tools for design

- support a designer to do a task
- help a designer do a task
- allow a designer to do a task
- empower a designer in doing a task
- amplify a designer’s ability to do a task
How a Designer Relates with Tools?

- dumbbells

- running shoes

- skis
How a Designer Relates with Tools?

- **dumbbells**
  - developed muscles

- **running shoes**
  - faster running

- **skis**
  - new experience
How a Designer Relates with Tools?

- dumbbells developed muscles
- running shoes faster running
- skis new experience
- dumbbells developed muscles
- running shoes faster running
- skis new experience
Different Relations, Different Things to Look At

- dumbbells developed muscles
- running shoes faster running
- skis new experience
Different Relations, Different Things to Look At

- dumbbells
  developed
  muscles

![Dumbbell Image]![Muscle Image]
Different Relations, Different Things to Look At

- dumbbells
  
  developed
  
  muscles

  Evaluation: 40% more muscles developed after 2-week usage

  Related work: push-ups
Different Relations, Different Things to Look At

- dumbbells
  - developed muscles

- evaluation: 40% more muscles developed after 2-week usage
- related work: push-ups
- questionnaire
Different Relations, Different Things to Look At

- dumbbells
- developed
- muscles

• evaluation: 40% more muscles developed after 2-week usage
  × questionnaire
• related work: push-ups
  × handset
Different Relations, Different Things to Look At

- running shoes
- faster
- running
Different Relations, Different Things to Look At

- running shoes
  - faster
  - running

- evaluation: 5.2% faster in 100m running

- related work: other running shoes
Different Relations, Different Things to Look At

- running shoes
  - faster
  - running

- evaluation: 5.2% faster in 100m running
  - more comfortable than barefoot
- related work: other running shoes
Different Relations, Different Things to Look At

- running shoes faster running

• evaluation: 5.2% faster in 100m running
  × more comfortable than barefoot
• related work: other running shoes
  × beach sandals
Different Relations, Different Things to Look At

- skis
- new experience
Different Relations, Different Things to Look At

- skis
  - new
  - experience

- related work:
  - walking?
  - tennis?
  - sliders?
“koto” versus “mono”

- enabling a new experience

- better things for the experience
Designing Tools for Design Processes

design research inform tools for design
Designing Tools for Design Processes

design research

inform

tools for design

new understanding of design

software as design material
Designing Tools for Design Processes

- Design research
- Inform
- New understanding of design
- Software as design material
- Changes the way designers design
- Tools for design
Designing Tools for Design Processes

Design research

New understanding of design

software as design material

Changes the way designers design

Inform

Tools for design

New technologies
Designing Tools for Design Processes

theory
practice

design research

new understanding of design
software as design material

changes the way designers design

inform

tools for design

new technologies
Thank you.

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Designing Tools for Design Processes

meta-design research

theory practice

design research

inform

tools for design

new understanding of design

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