



TANGIBLE INTERFACES

CLASS 02 - BEYOND PIXELS

SEPTEMBER 22

Lecture: Tangible Bits + Radical Atoms (by Hiroshi Ishii)

This lecture will cover the foundations of both Tangible Bits and Radical Atoms with various projects from the over 20 year history of Tangible Media.

Dynamic Physical Embodiment of Digital Information and Computation enabled by Sensing and Actuation Technologies => Material User Interfaces

Read before next class (29th Sep):

- **Radical Atoms** by Hiroshi Ishii, Dávid Lakatos, Leonardo Bonanni and Jean-Baptiste Labrune - *INTERACTIONS 2012*
- **Jamming user interfaces** by Sean Follmer, Daniel Leithinger, Alex Olwal, Nadia Cheng, and Hiroshi Ishii - *UIST2012*
- **Pneui** by Lining Yao, Ryuma Niiyama, Jifei Ou, Sean Follmer, Clark Della Silva, Hiroshi Ishii - *UIST2013*
- **Jamsheets** by Jifei Ou, Lining Yao, Daniel Tauber, Jürgen Steimle, Ryuma Niiyama & Hiroshi Ishii - *TEI2014*

SEE DROPBOX LINK FOR PAPERS:

<https://www.dropbox.com/sh/sdj9yjrxcodx9x/AAA6WO3TY7doiH7Nqz1gHSIYa?dl=0>

Assignment:

- **Propose a project idea** you want to work on for this class under the theme of **Pneumatic Augmentation of Body, Object, or Space**
- Post on Wordpress by **Monday September 28** (we will show you how in the ideation class)