

## project proposals

- evaluation
- new applications
  - design
  - implement
- new techniques
  - design
  - implement
- your own ideas!

## Touch-screen techniques for small devices

- evaluate techniques
- design application scenarios
- test on new devices



## LightSense + 3D tracking

scenarios:

- Multi-user
- Tangibles
- 3D



## Mobile NFC-RFID interaction

- 2-way RFID
- location & id



## 3D interaction/graphics on interactive surface

- Senses objects
- Senses touch
- Add 3D visualizations & interaction



## 3D-camera (Z-cam)

- Similar technology to that which is used in MS Kinect
- RGB + Z!
- Gesture recognition for 3D camera



## AR prototype on Android

- Compass, accelerometers, GPS + video overlays
- Similar to Layar / Wikitude approaches
- Proof-of-concept



## Touch-screen interaction w/ ARToolKit on Nokia N900



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## augmented reality & interactive surfaces

videos & material from lecture (+more):  
[www.csc.kth.se/~alx](http://www.csc.kth.se/~alx)

Individual projects in interactive computer graphics (can start anytime): 3D graphics, augmented/virtual reality, touch screens, or anything else you might be interested in...

- > DD2465, advanced individual course in computer science, 4 p
- > DD2464, higher advanced individual course in computer science, 6 p
- > DH2466, advanced individual course in human-computer interaction, 4 p

- > DM2904, individual course in media technology, 4 p
- > DM2905, individual course in media technology, 5 p

> Master's thesis project