

# Sources

Krumm, J., Baudisch, P., Czerwinski, M, and Szeliski, R. How to Give a Great Research Talk. Internal presentation at Microsoft Research 2007 <a href="http://research.microsoft.com/apps/video/dl.aspx?id=103946&l=i">http://research.microsoft.com/apps/video/dl.aspx?id=103946&l=i</a>

Simon Peyton Jones

How to give a great research talk

<a href="http://wit.tuwien.ac.at/events/peyton-jones/Giving%20%20talk.pdf">http://wit.tuwien.ac.at/events/peyton-jones/Giving%20%20talk.pdf</a>

Nancy Duarte
Slide:ology
The art and science of creating great presentations
<a href="https://www.oreilly.com">www.oreilly.com</a>

http://research.microsoft.com/en-us/um/people/simonpj/papers/giving-a-talk/giving-a-talk.htm

http://sixminutes.dlugan.com/assertion-evidence-design-presentation-slides/



# Outline

Why?

What?

How?

Slide by slide

# Why to Give a Great Research Talk?

### Why to give a talk?

 The greatest ideas are worthless if you keep them for yourself

Why to give a GREAT research talk?

• It is not very difficult

Many research talks are poor ...

... and quite simple things ...

... can make your talks much better.



April 18 - 23, 2015

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#### News

#### 19 April 2015

Vote for your favorite CHI presentation here!!!

#### 18 April 2015

Meet local Heroes from across Asia who have made significant contributions to the field of HCI.

#### 15 April 2015

Check out an awesome suite of mobile apps for CHI 2015

#### 15 April 2015

Video previews are available

#### 15 April 2015

PDF version of the full program is available

#### 15 April 2015

ACM's official press release

#### 4 April 2015

Transportation information is available.

See all news updates.

### Authors I Guide to a Successful Presentation

#### Standard Technical Support

- Projector with resolution up to 1024 x 768
- Projection screen
- VGA connection
- · Audio input to room speakers
- Podium microphone

#### Additional Information

This information is reprinted in part from the IUI conference series.

Please see these examples of:

- A example GOOD presentation slide deck (.ppt, 169 KB)
- A example BAD presentation slide deck (.ppt, 405 KB)

### Checking Content Appropriateness

DON'T give a presentation that we be comprehensible and interesting only to people who work in the same area as you. Please be aware that CHI is a multidisciplinary conference, with researchers and practitioners in attendance.

DON'T give a presentation that will DO ensure that even people who have little familiarity with your be comprehensible and interesting sub-area of HCI can understand at least the main points:

- · what questions you addressed,
- why they're important,
- what methods you used (not necessarily the details),
- what your main results were, and
- · why they are interesting.

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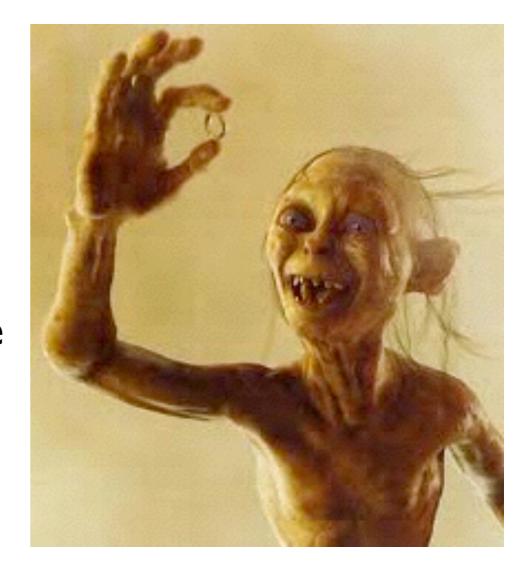


### **Benefits**

- Your audience is happier
- Your are promoted

### Time and attention of other people

- It is precious
- Do not waste it!



Presentation
Writing
Research
Coding

**Effort** 

Presentation

Writing

Research

Coding

Presentation

Writing

Coding

Effort Impact

# Outline

Why?

What?

How?

Slide by slide

# What is a Research Talk?



## University

V.S



Conference Talk

Job Talk





## The goal of your talk **IS**

- To convince you've got something great
- To give Intuitive feel for your idea
- To make them glad they came

### Conference Talk

## University

Why are you the right candidate?





Job Talk



## University

V.S



Conference Talk

Job Talk

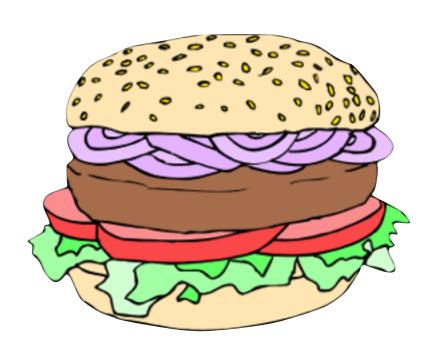






Enference Table In Cliste III

# What to Say?



Your paper

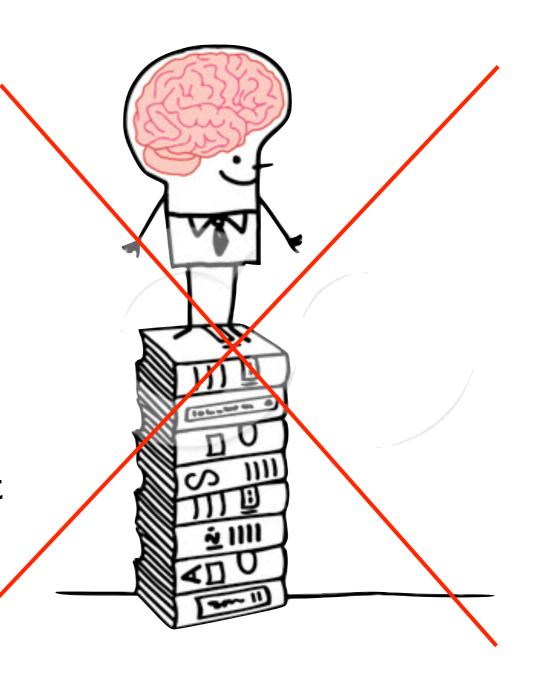


Your Talk

Do not confuse the two!

### The goal of your talk is **not**

- To impress your audience
- To tell them all you know
- To present technical details
- To teach them how to implement



## The goal of your talk **IS**

- To convince you've got something great
- To give Intuitive feel for your idea
- To make them glad they came



Success if you get them to read the paper for details

# Audience



Idealized audience

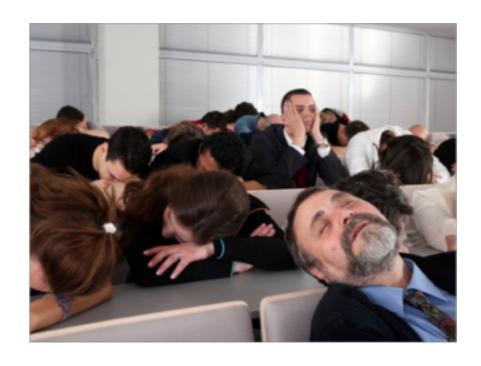
- Have read all your earlier paper
- Understand every thing quickly
- Are fresh, alert, ready for action

## Audience



Idealized audience

- Have read all your earlier paper
- Understand every thing quickly
- Are fresh, alert, ready for action



Actual audience

- Have never heard of you
- Do not know your topic
- Have just had lunch and are ready for a doze

## Audience



Your mission

## Wake up them

And make them glad they did

- Motivation
- 2
- 3

- Motivation
- 2 Key idea

3

- Motivation (20%)
- 2 Key idea (80%)
- 3 There is no 3

2 minutes before they start to doze

### **Motivations**

- What is the problem?
- Why is it an important and interesting problem?
   (audience will be distracted by guessing otherwise)
- Why your solution is better

### Key idea

- Identify the key idea
- Be specific
- Absolutely specific
- Nothing else

If the audience remembers only **one** thing of your talk, what should it be?

# How to Say It Well?

Creating slides



# 5 principles

- I. Tell the truth
- 2. Get to the point
- 3. Pick the right tool for the job
- 4. Highlight what's important
- 5. Keep it simple

## Text



- Reading and listening is very difficult (distraction)
- Focus on the presenter
- Slides reinforce the content
- > 75 words == Document
- > 40 words == Teleprompter
- <= 7 words ==Presentation</p>



## Accidental injures and deaths on construction sites

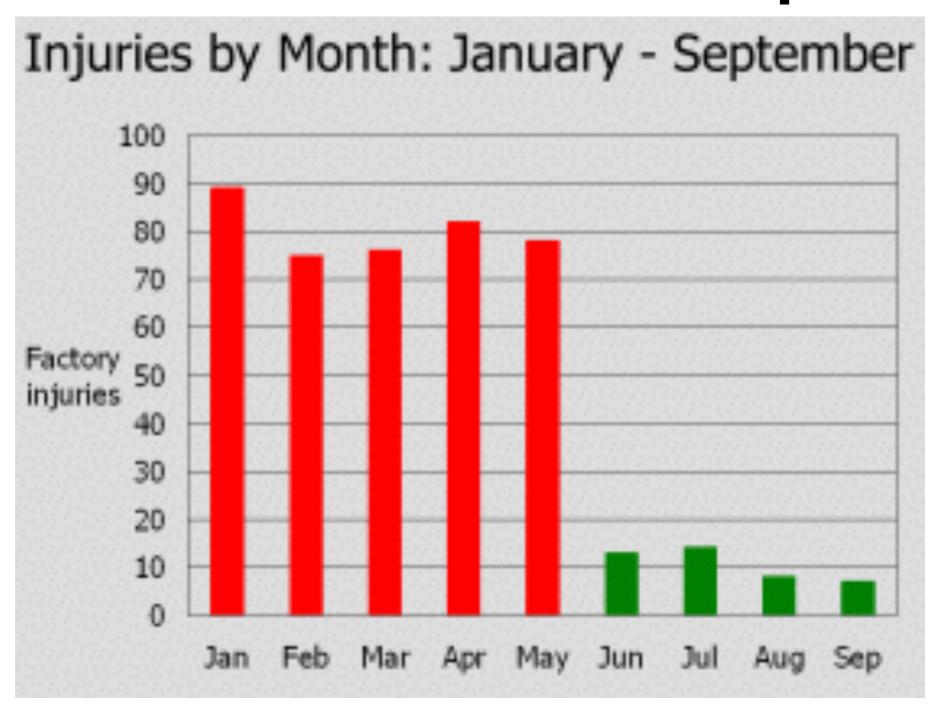
- One out of every ten construction workers is accidentally injured every year!
- In 1995, there were approximately 6,500,000 construction workers in the United States and among these construction workers, there were more than 1,000 deaths. Among these construction workers, there were more than 300,000 serious injuries. And many more less serious injuries.
- The most common accident among construction workers is falls. In fact there are more fatalities from falls than any other construction accident.
- The most frequently injured part of the body is the back. Back injuries account for almost one fourth of all construction injuries.

## Text

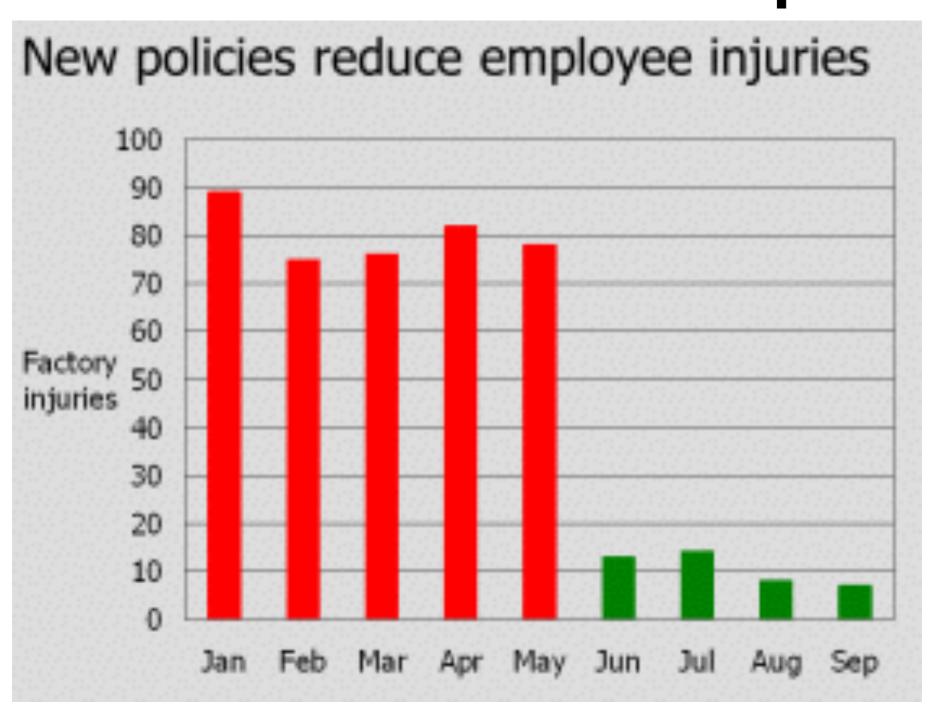
### Reduce Text

- Highlight only keyword per bullet point
- Practice delivering those slides, but only focus on the highlighted keyword
- Remove all the words except the keyword
- Replace the word with an image (when possible)

# Slide Title Guidelines: Use Assertions, Not Topics

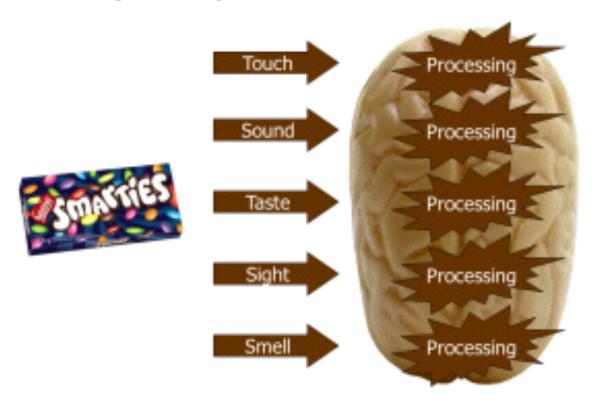


# Slide Title Guidelines: Use Assertions, Not Topics

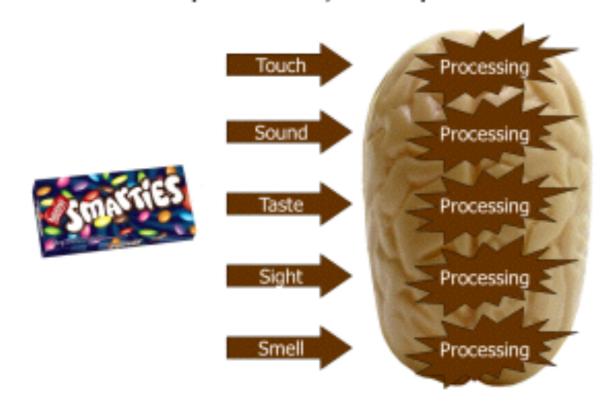


# Slide Title Guidelines: Use Assertions, Not Topics

Sensory Perceptions



Stimuli are perceived, then processed



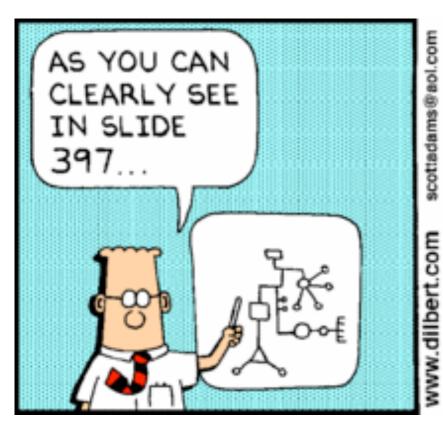
# Slide Title Guidelines: Use Assertions, Not Topics Te on Slides Make text large enough to read

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Text Size on Slides
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  CP140
               40
 HSKRNI
               36
 CHKRVD
               32
 HONSDCV
                28
 OKHDNRCS
                24
 VHDNKUOSRC
                20
 NAGULDWERDNA
                18
 BDCLZWVYIHSROA
                16
THISISWAYWAYTOOSMALL
ATTHISPOINTY OUR RESERVE SILLY
```

PONTS SECURITION DAS LANCES LINES SENT

## Humor





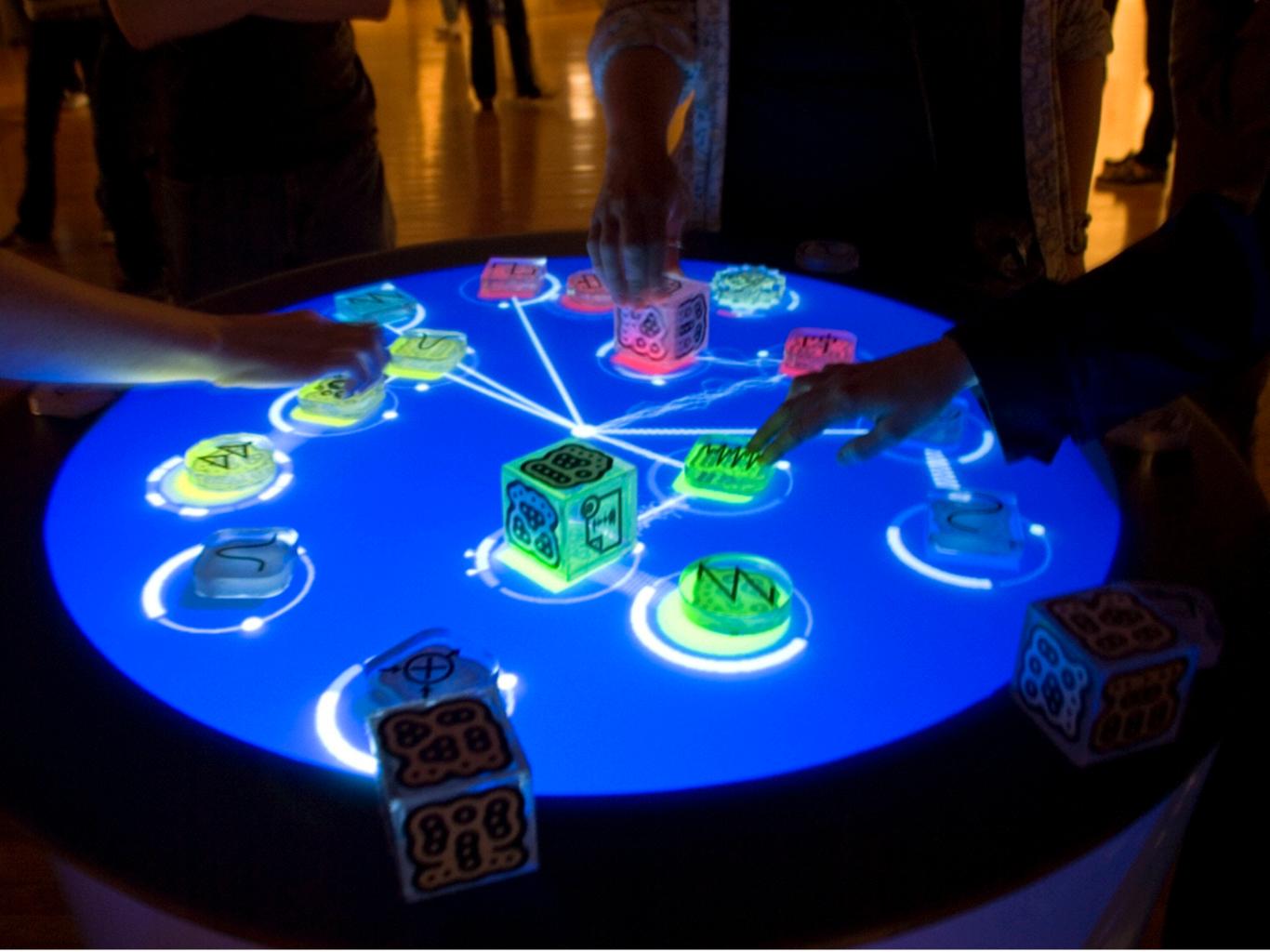


Focus attention

Show, do not tell!

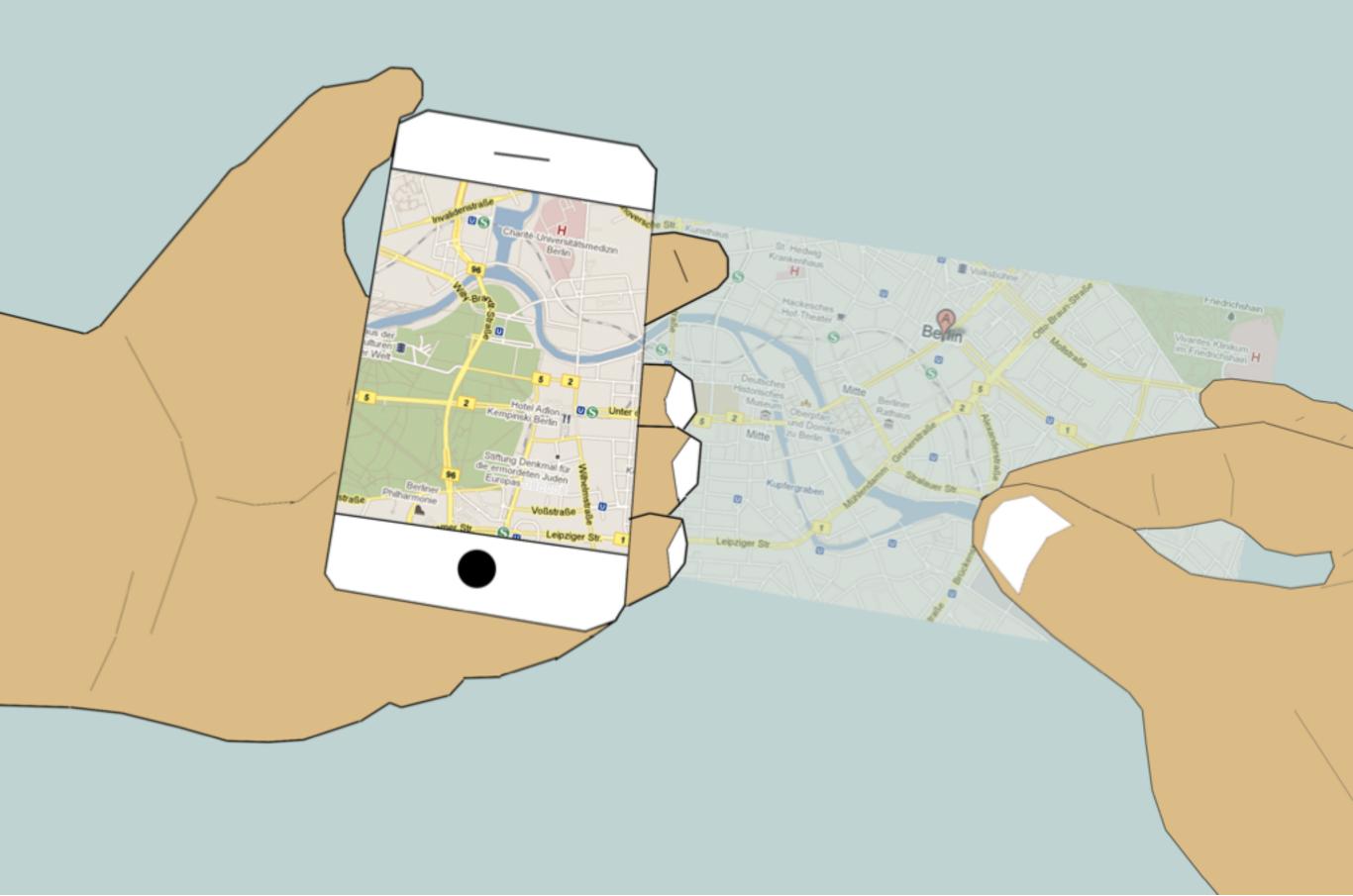






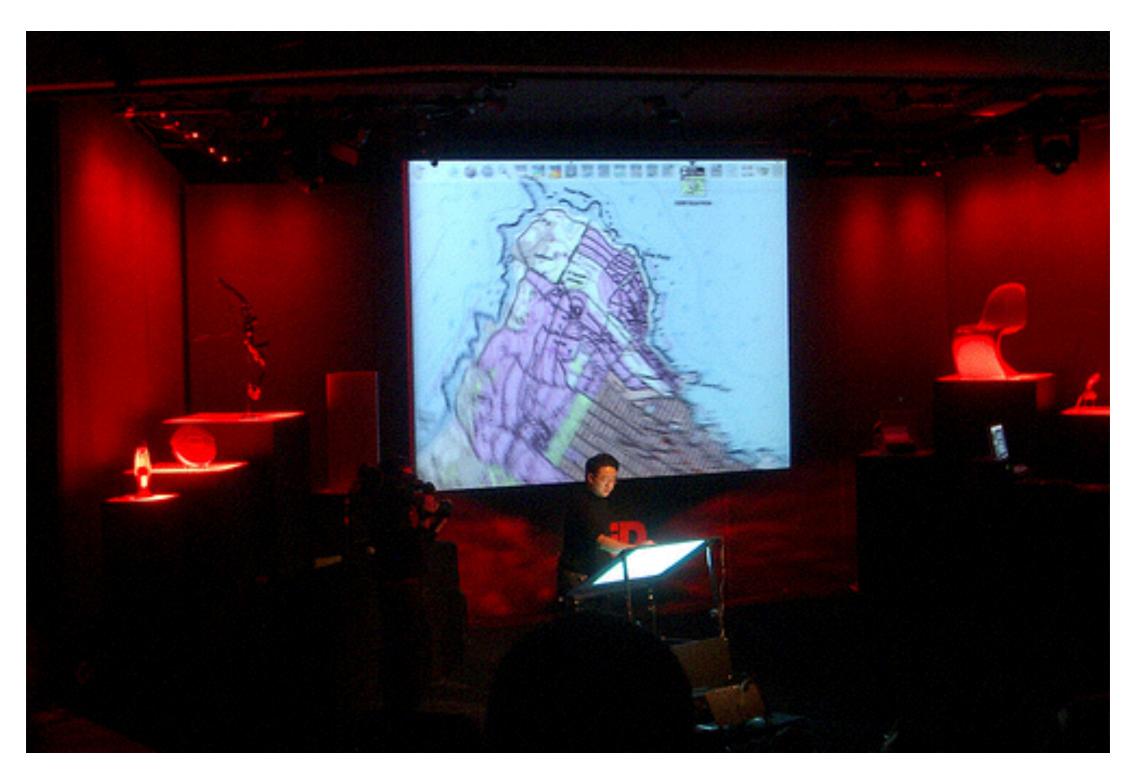


#### Diagrams









# Examples

#### Main weapon

- To motivate the work
- To convey the basic intuition
- To illustrate the Idea in action
- To show extreme cases
- To highlight shortcomings

When the time is short, omit the general case, not the example

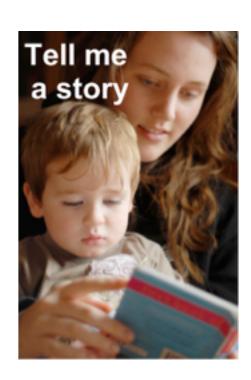
## What?

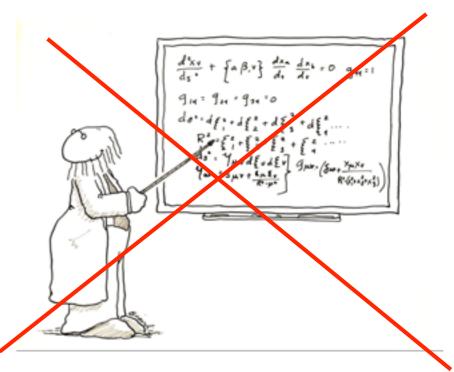
#### Tell a story

Stories get attention

#### No equation

 Flash up some math just to show you have it





# Contrast: Identifying the Main Point Quickly

Size

Shape

Shade

Color

Proximity

# Design (1/2)

#### Simple Background

- Backgrounds should never compete with the content
- Ligth Background

#### Color

- Using the color wheel
- Using a template

# The Worst Slide Deck Ever

Joshua B. Gross, BA, MS
PhD Candidate, Expected Graduation May, 2008
311B IST Building

College of Information Sciences and Technology

The Pennsylvania State University

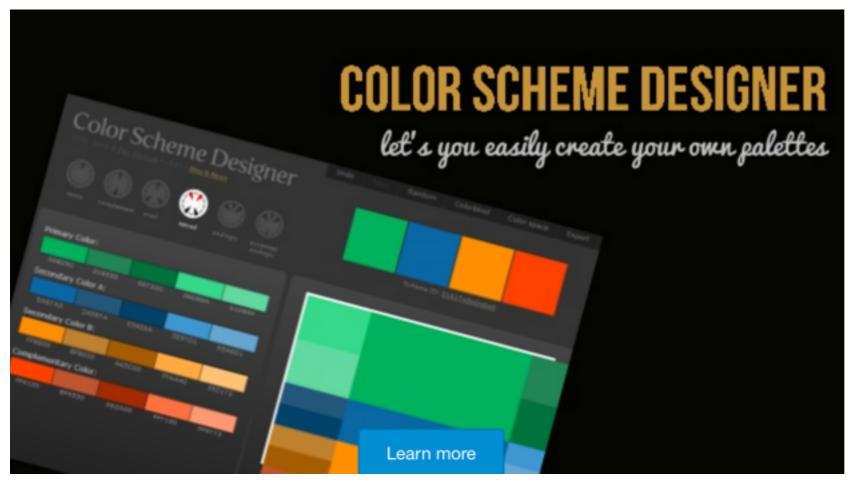
University Park, PA 16802

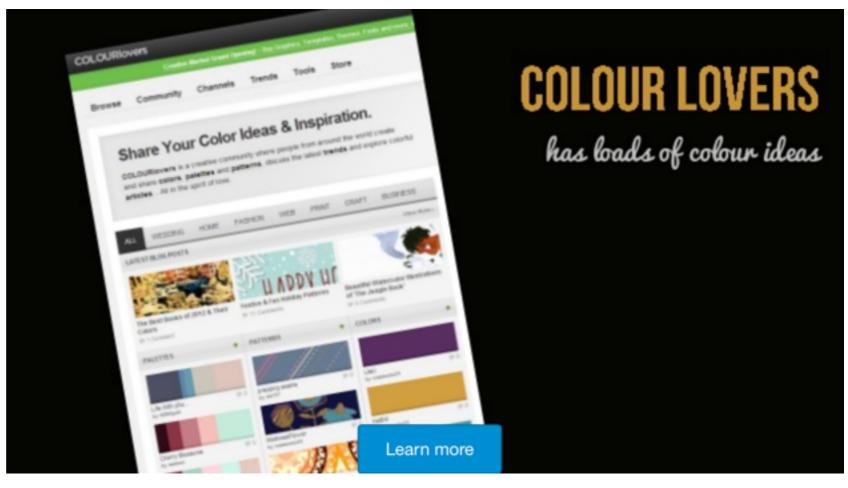
Phone: (814) 865-3859

Fax: (814) 863-1122

Email: jgross@ist.psu.edu

Web: http://hci.ist.psu.edu/~jgross





# Design (2/2)

#### **Font**

- Sans serif type
- Only one font
- 66% size
- Back of the room
- Oldest age / 2
- Do not go smaller than 28

#### **Bullets**

- Bullet kill people
- Use them sparingly





## Animations

Do not use them (or very sparingly)

#### Animation is wrong when:

- Unnatural or counterintuitive
- It does not add value to the content
- It distracts the audience from the presenter

## Rehearsal



### Rehearsal

Spend enough time in preparing

more than once

Time yourself

Use videos

Rehearse in front of friendly audiences

Get feedbacks

# Checking

I day



### Materials

- Test that your laptop works with the projector (some parts of the slides are sometimes truncated)
- Copies of your slides on another laptop on a USB stick on a web server
- Borrow a laser pointer, but avoid using it
- Borrow a wireless slide changer





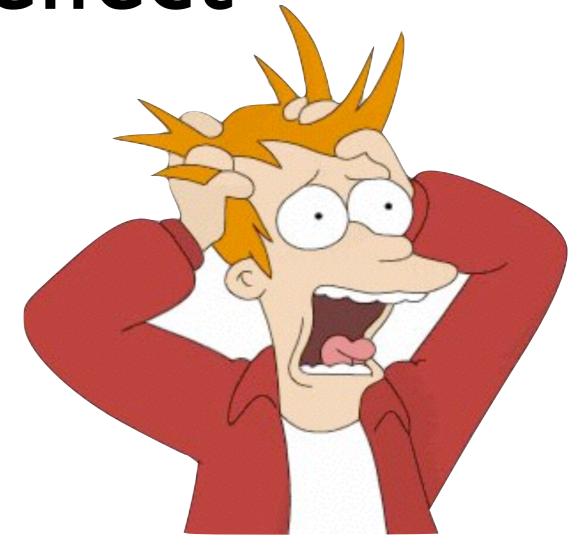
Stress Management

I minute



Jelly effect

Inability to breath
Inability to stand up
Inability to operate brain



You are not a wimp Everyone feels this way

### Solutions

Deep breathing during previous talks

Script your first sentences precisely (No brain required)

#### Move around a lot

- Use large gestures,
- Wave your arms,
- Stand on chairs

Go to the bathroom



Presentation



## Enthusiasm

- If you do not seem excited by your idea, why should the audience be?
- It wakes them up
- It makes people dramatically more receptive
- It gets you loosened up, breathing, moving around.



# Do not apologize

- "I did not have time to prepare this talk properly"
- "My computer broke down, So ...
  - ... I did not have the results I expected"
- "I do not have time to tell you about this"
- "I do not feel qualified to address this audience"

### Posture / Gesture

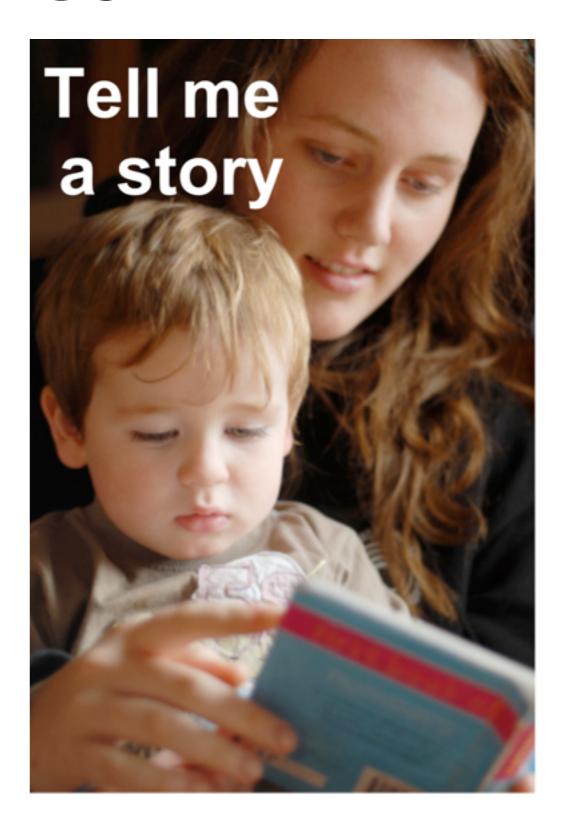
- Always face the audience
- Don't look or point at screen
- Glance at laptop, use mouse
- Compensate for distractions/inattention (Focus attention, Repetition is OK)
- Eye Contacts (speak to him, to her)
- Speak to someone at the back of the room
- Body and hands
- Good posture
- Show your passion (not too much)

### Shorter is better

- Don't irritate your audience
- Job candidates tend to go long
- Show don't tell

# Stories

Stories get attention



# Outline

Why?

What?

How?

Slide by slide

# Slide by slide

example: ShoeSense

- I. first slide
- 2. Insight
- 3. Motivation & Related work
- 4. Outline
- 5. The Key idea
- 6. (Bonus)
- 7. Conclusion / Future work
- 8. Questions

#### How to Start

#### Convey excitement about the topic

- Ask audience a question? (Set context, what do you know?)
- Important topic
- Tease with results

#### Give an idea of your system as soon as possible

- A short demo / video (a couple of seconds)
- To have an idea in your head
- Tease with results

Title

### 1. First slide /

System



Institution

# ShoeSense Gilles Sven Jörg Michael Daniel Müller Wigdor Kratz Bailly Rohs

#### 1. First Slide

#### Visibility

- Average 5 minutes
- up to 15 minutes for the first speaker of the session

# ShoeSense Gilles Sven Jörg Michael Daniel Müller Wigdor Kratz Bailly Rohs

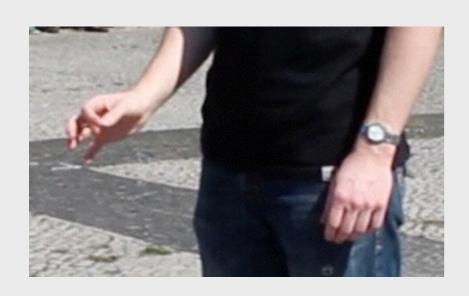
## 5s Video

## 5s Video

# 5s Video (with sound)

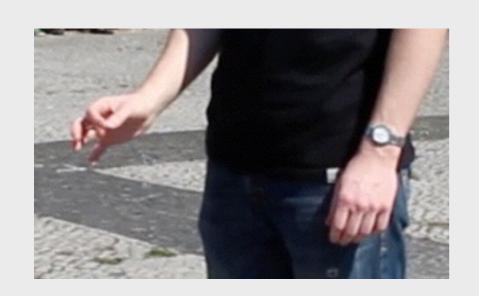
# 5s Video (with sound)

#### 3 Gesture Sets

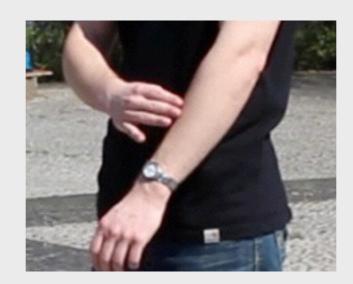


Next Song

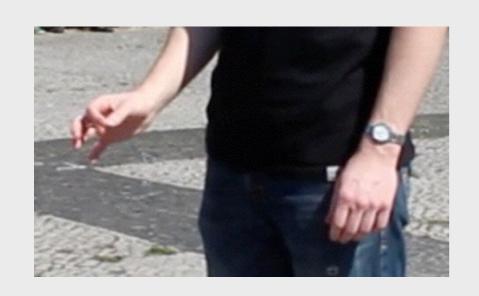
#### 3 Gesture Sets



Next Song



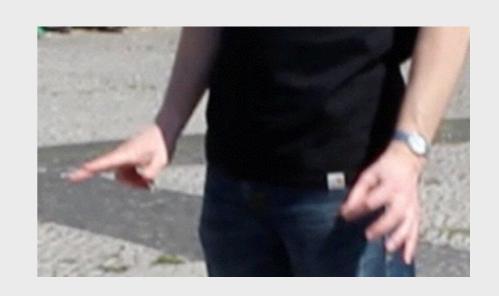
Volume +



Next Song



Volume +



Send message

#### 3 Gesture Sets

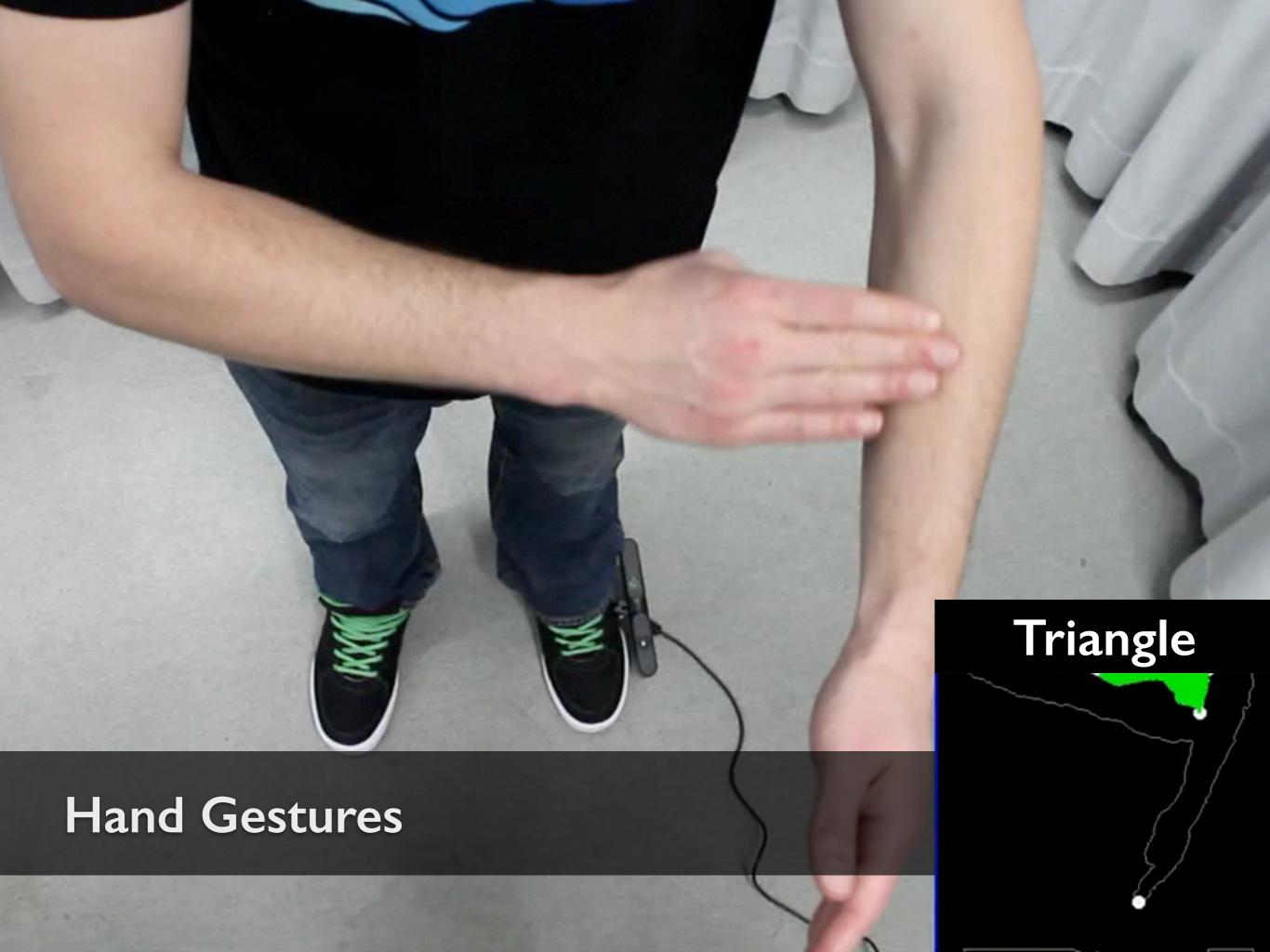


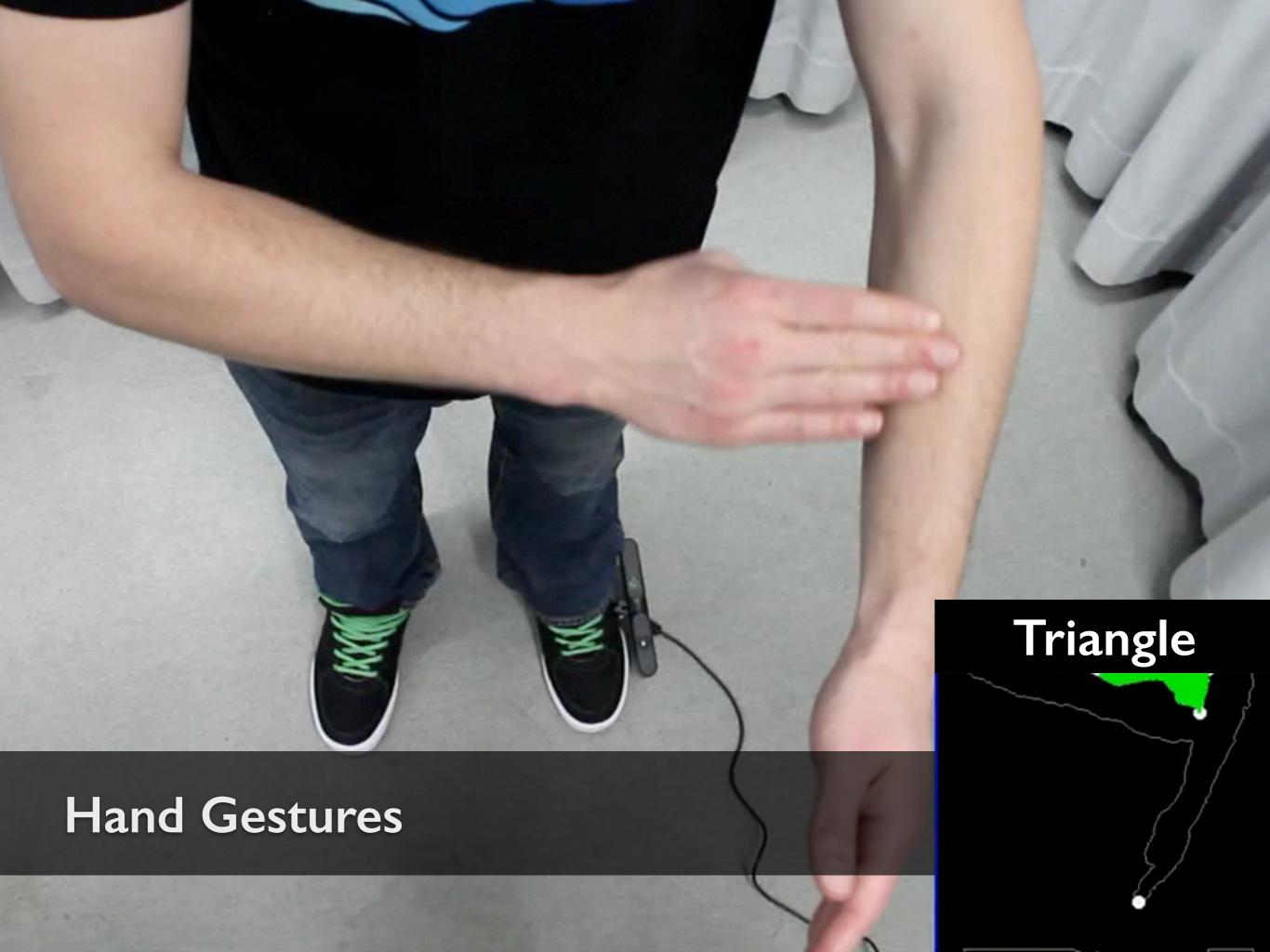
# Shoes as a platform for interaction

Shoes as a platform for Hand Gesture interaction

# Shoes as a platform for interaction

# Shoes as a platform for Hand Gesture interaction









#### Motivations

# 2. Insight

#### Quickly provide the idea

- A picture / A short video / a short demo (System)
- Message (model/user studies/etc.)

#### Motivations



#### **Mobile Device**





Using a mobile device can be Difficult

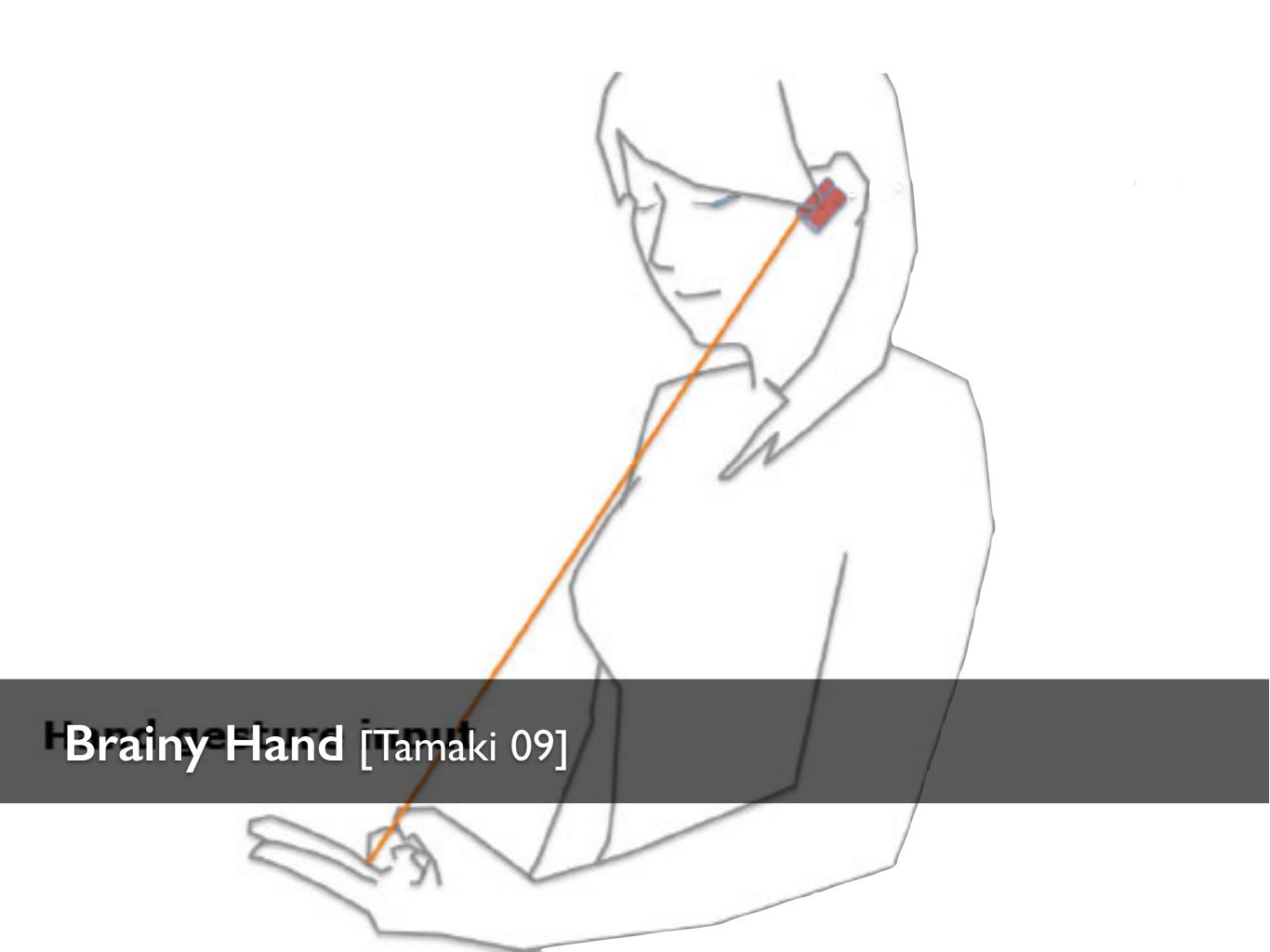


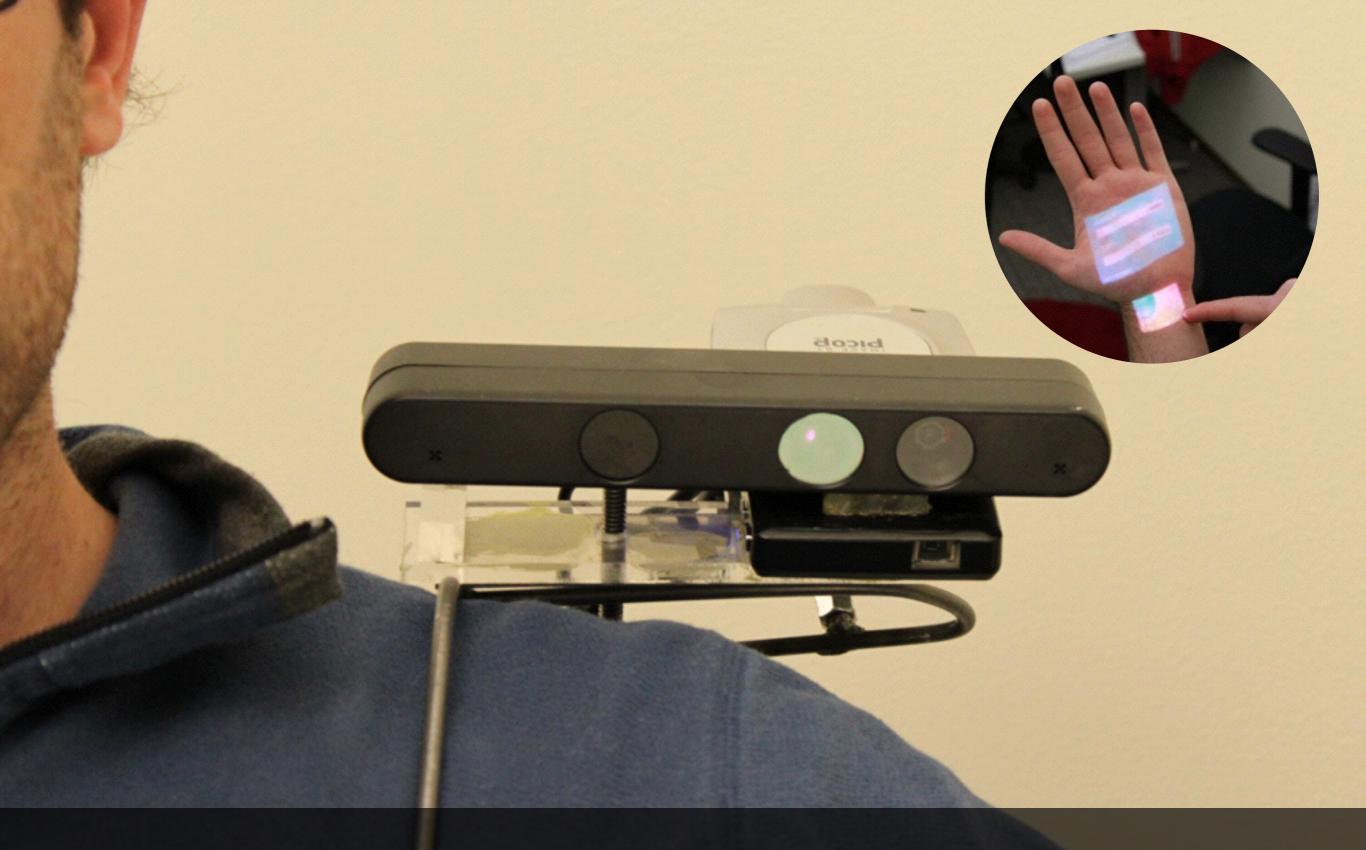
# Wearable Computing

Hand Gesture System

#### Related Work



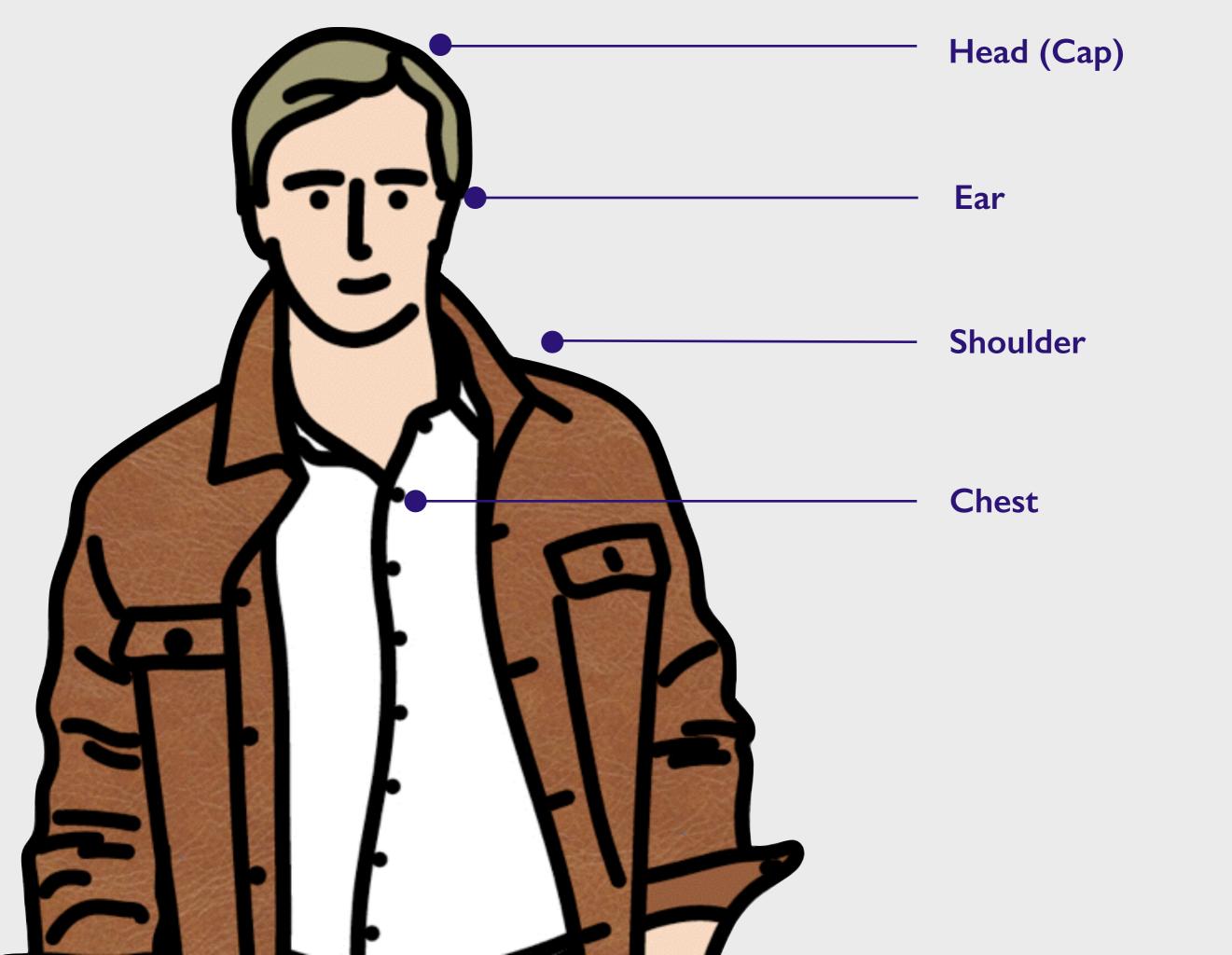


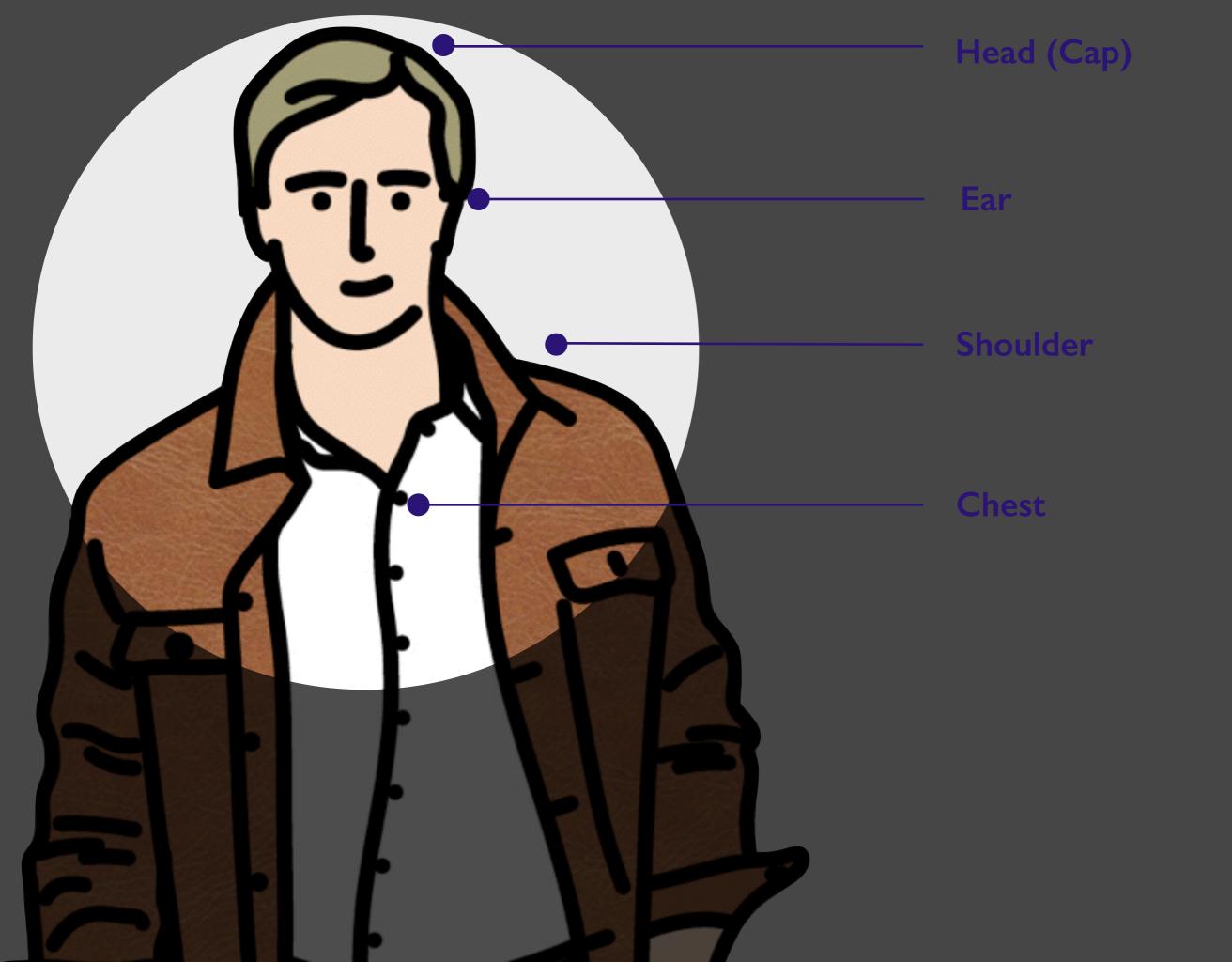


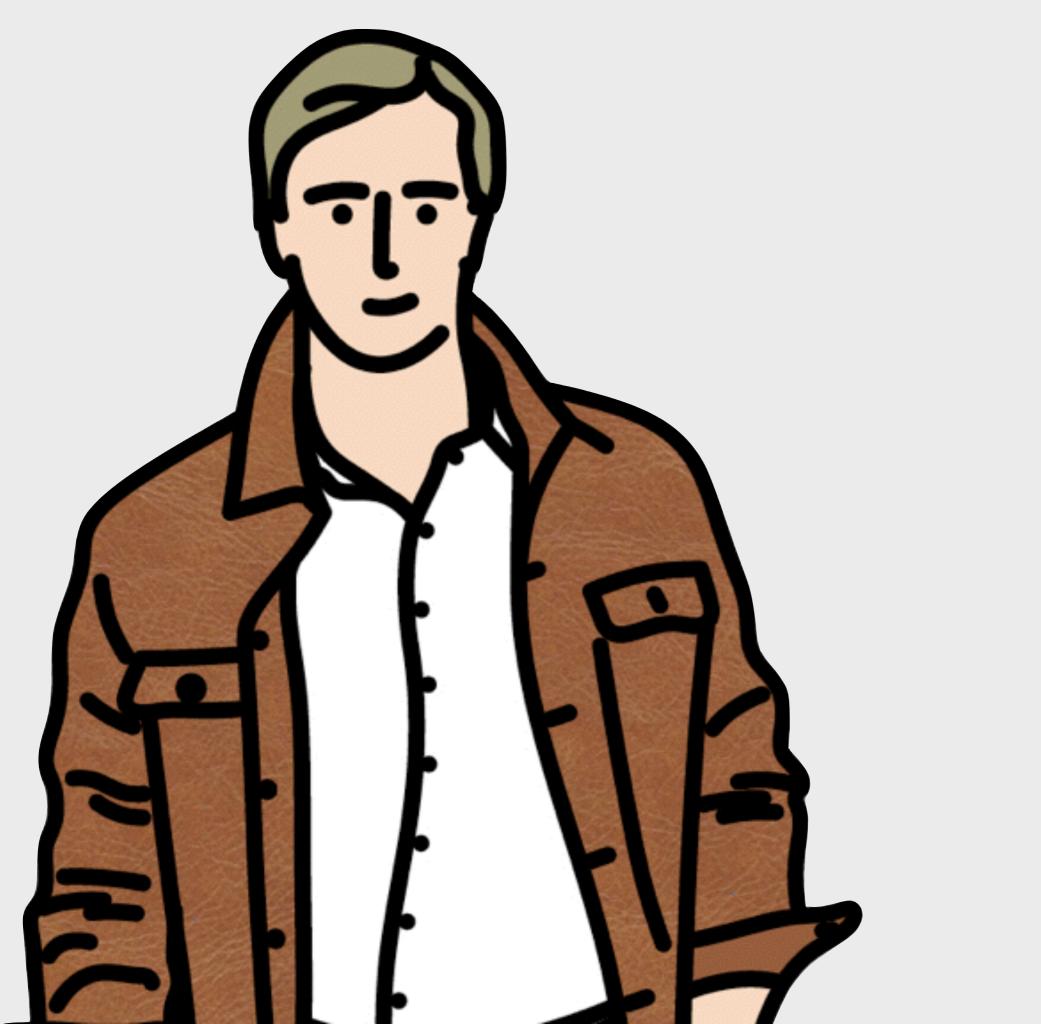
OmniTouch [Harrison 11]



## Where?









# ShoeSense

Sensor located on the shoe



### 3. Motivation

2 minutes before they start to doze

#### Motivation is Your Introduction

- What is the problem?
- Why is it an important and interesting problem?
   (audience will be distracted by guessing otherwise)
- Why your solution is better

### 5. Related Work

Do not spend too much time on related work

Use pictures of the article

I paper == I slide

### 4. Outline

### Outline of your talk:

- Conveys near zero information at the start of your talk
- Guides the audience after the motivation and insights
- No need to indicate Introduction and Conclusion (obvious)

# 5. The Key Idea

It depends on your talk:)

### 6. Bonus

A gift

Audience is happy to have something for free





# Second prototype





### 7. Conclusion / Future work

Brief summary (The key idea)

Opens new avenue of research

#### Finish on time

- Audience finishes listening when your time is up
- Truncate and stop

Indicate when you are done

"That's the end. Thanks for listening."



### Last slide

It is generally your first slide

End on a memorable slide

Title

Your system

Your name

Your institution



# 8. Questions

A opportunity to connect with your audience

Encourage questions during your talk

Prepare to truncate your talk better to connect, and not to present all your materials

Keep slides in reserve

# Conclusion

### The Three R's of Letting Go

Reduce

Record

Repeat

### Good Research Talk requires to you to:

- Invest time,
- Learn skills
- Practice, Practice

#### **Motivation**

• Explain the problem/ why it is important?

### Key idea

- focus the attention
- nothing else

### Shorter is better => pictures

# 5 Theses of the Power of a Presentation

Treat your audience as King

Spread ideas and move people

Help them see what you are saying

Practice design, not decoration

Cultivate Healthy relationships