



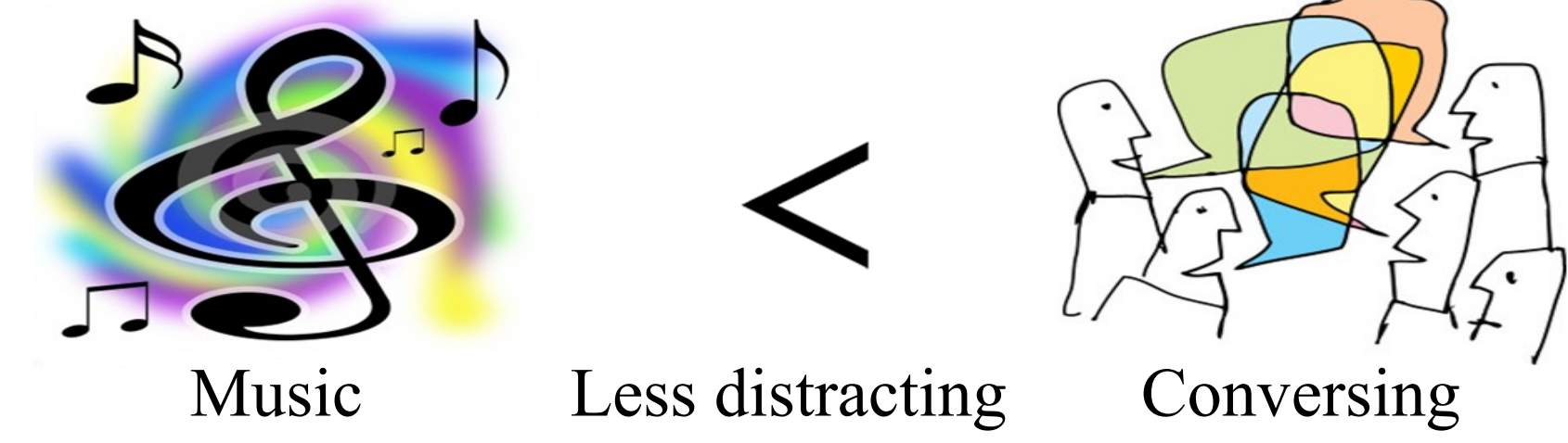
The Effect of Feedback about Texting while Driving on Attitudes Towards Texting

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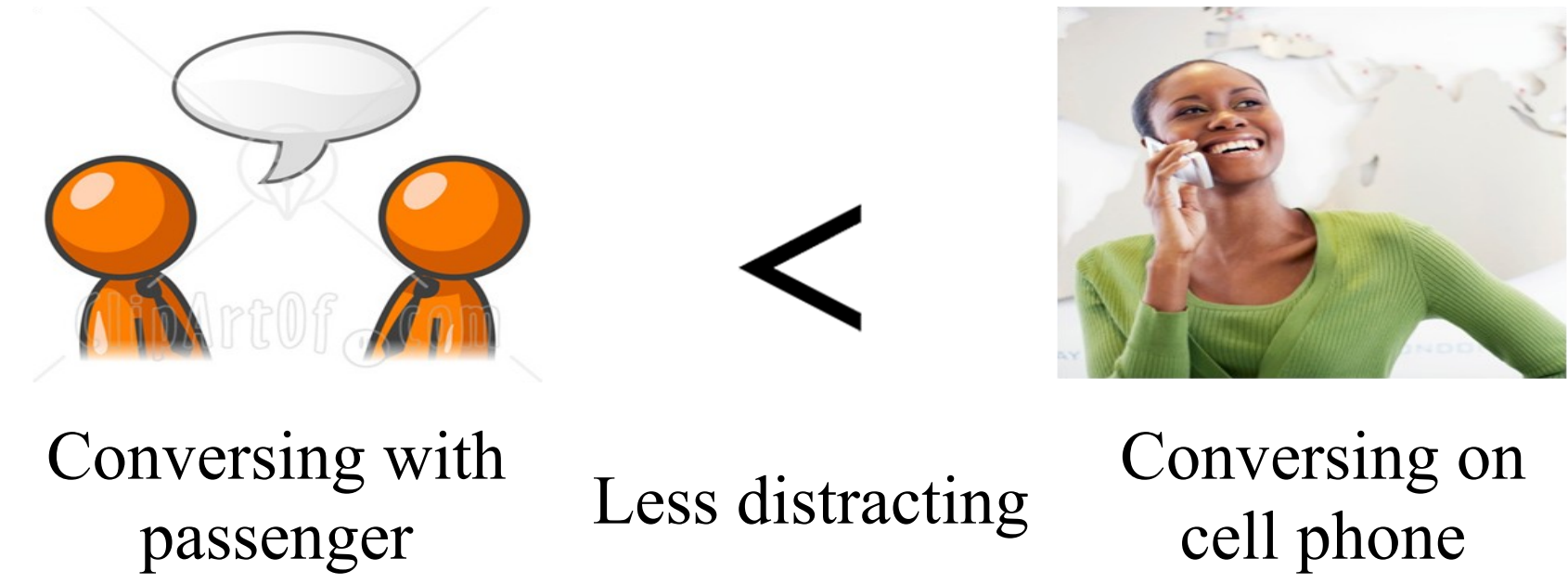


Introduction

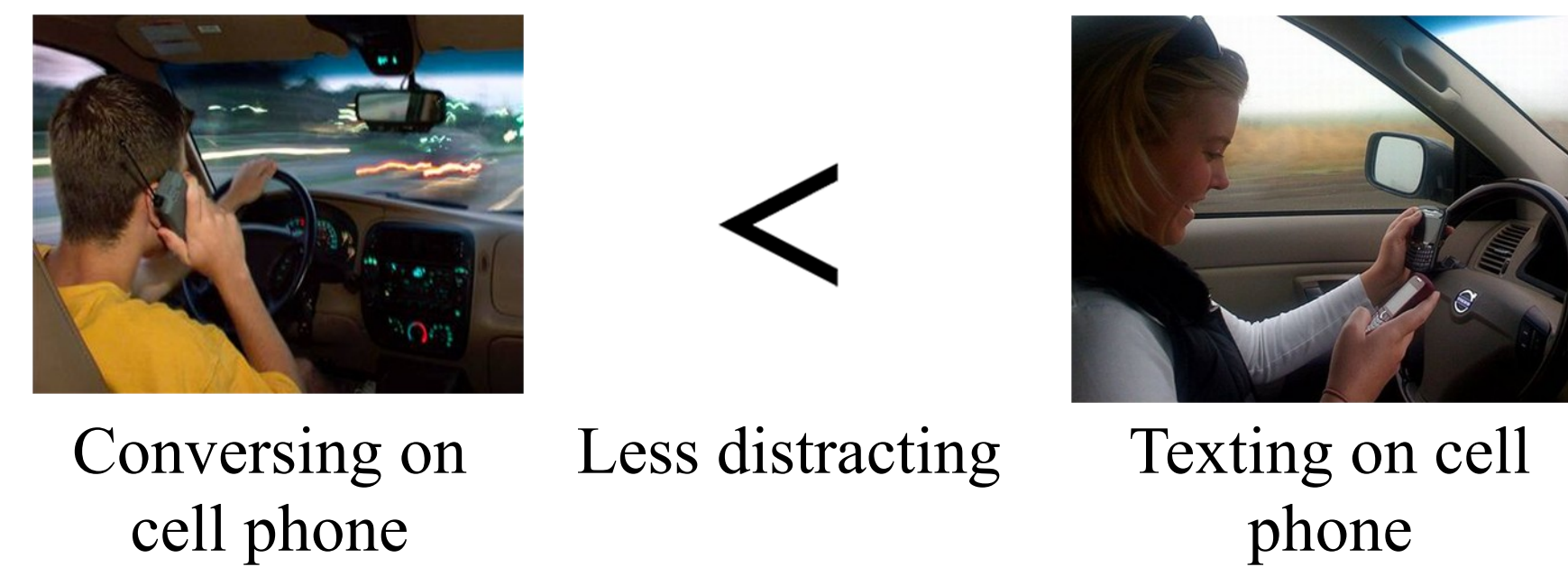
Negative Effects of Cell Phones



- **Slower reaction times when conversing on a cell phone**
 - ◆ Bellinger et al., (2009)
 - Participants drove using a brake light simulator
 - Listened to music and conversed on a cell phone
 - Reaction times decreased (slower) when conversing on a cell phone



- **Higher risk of making mistakes**
 - ◆ Drews et al., (2008)
 - Participants drove using a driving simulator
 - Conversed on a cell phone and conversed with a passenger
 - Made more mistakes when conversing on a cell phone



- **Higher risk of mistakes while texting**
 - ◆ Drews et al., (2009)
 - Participants drove using a driving simulator
 - Drove while text messaging and without text messaging
 - Participants had slower reaction times and made more mistakes when text messaging on a cell phone

BUT students continue to text

- According to SADD, nearly 50% of teens text message while driving
 - *Number expected to increase over time*
- Nearly 200,000 car accidents per year are caused by text messaging while driving
 - *Reported by the National Safety Council (January 2010)*

Purpose

- Investigate the effects of **feedback** about texting and driving towards students attitudes on texting while driving

Hypothesis

- Giving students feedback about their ability to text and drive would:
 - ◆ Decrease confidence in texting
 - ◆ Decrease expectation to continue texting while driving

Method

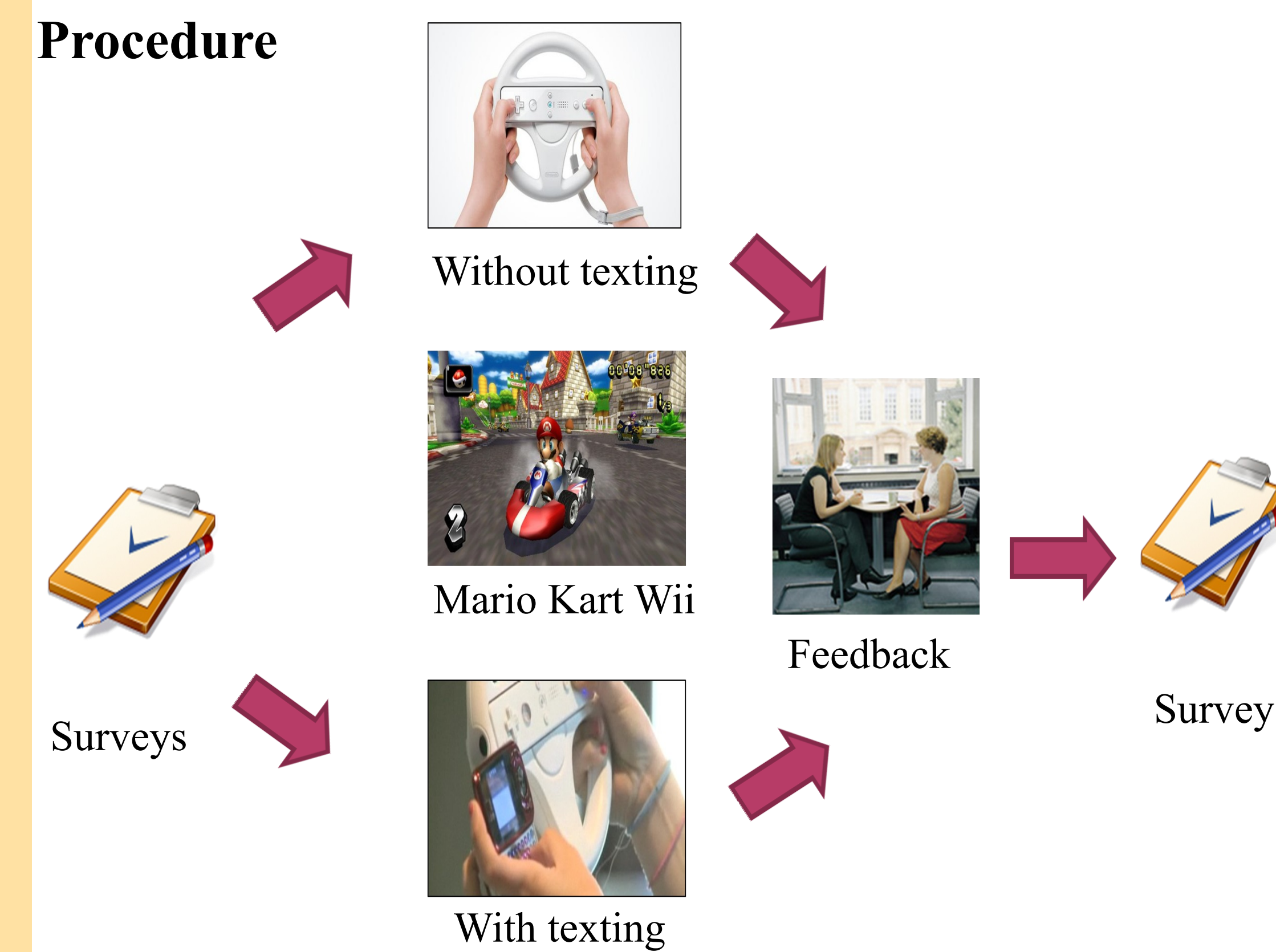
Participants

- ◆ 34 men and women
- ◆ Owned mobile phones
- ◆ Were able to send and receive text messages

Materials

- **Demographic questionnaire**
- **Text Messaging Survey created for this study**
 - ◆ **Confidence in texting (6 categories)**
 - ◆ Good at Texting while driving (2 questions)
 - ◆ Ex. *I think I am good enough at texting to be able to text while I am driving*
 - ◆ Like to text (1 question)
 - ◆ *Using my mobile phone for text messages under any condition is pleasant for me*
 - ◆ Important to them to text (1 question)
 - ◆ *Using my mobile phone to respond to a text message right away is important to me*
 - ◆ Successful at texting (2 questions)
 - ◆ Ex. *I can successfully send text messages under any condition*
 - ◆ Prefer to text while driving (1 question)
 - ◆ *I prefer texting to speaking on the phone when I am driving*
 - ◆ Scared to send/receive text messages (3 questions)
 - ◆ Ex. *Using my mobile phone to send/receive text messages intimidates me*
 - ◆ **Expectation they would continue to text while driving (1 category)**
 - ◆ Persist in behavior while driving (1 question)
 - ◆ *I am likely to text while driving in the future*
 - **Mario Kart for Wii**
 - **Texting Script**

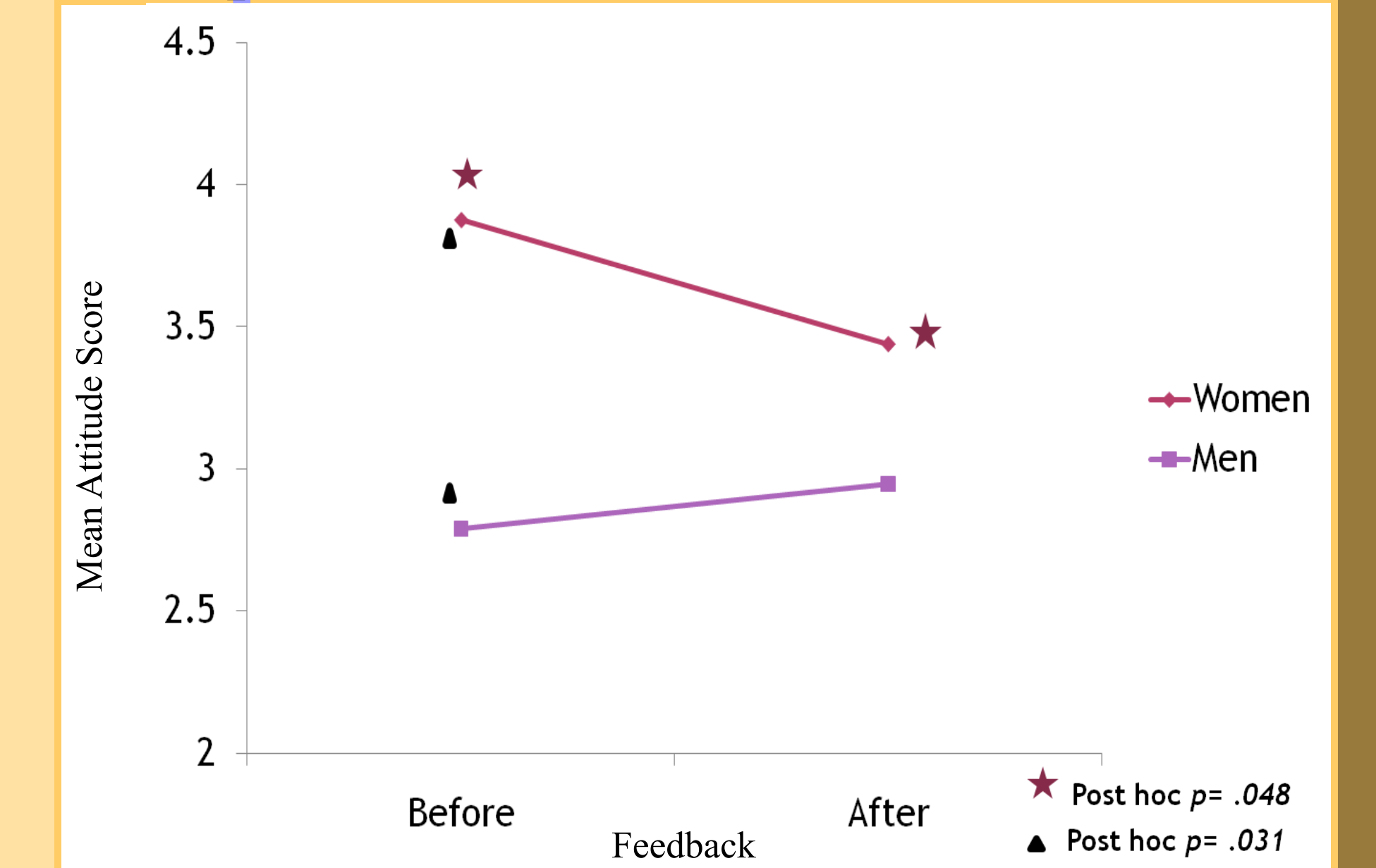
Procedure



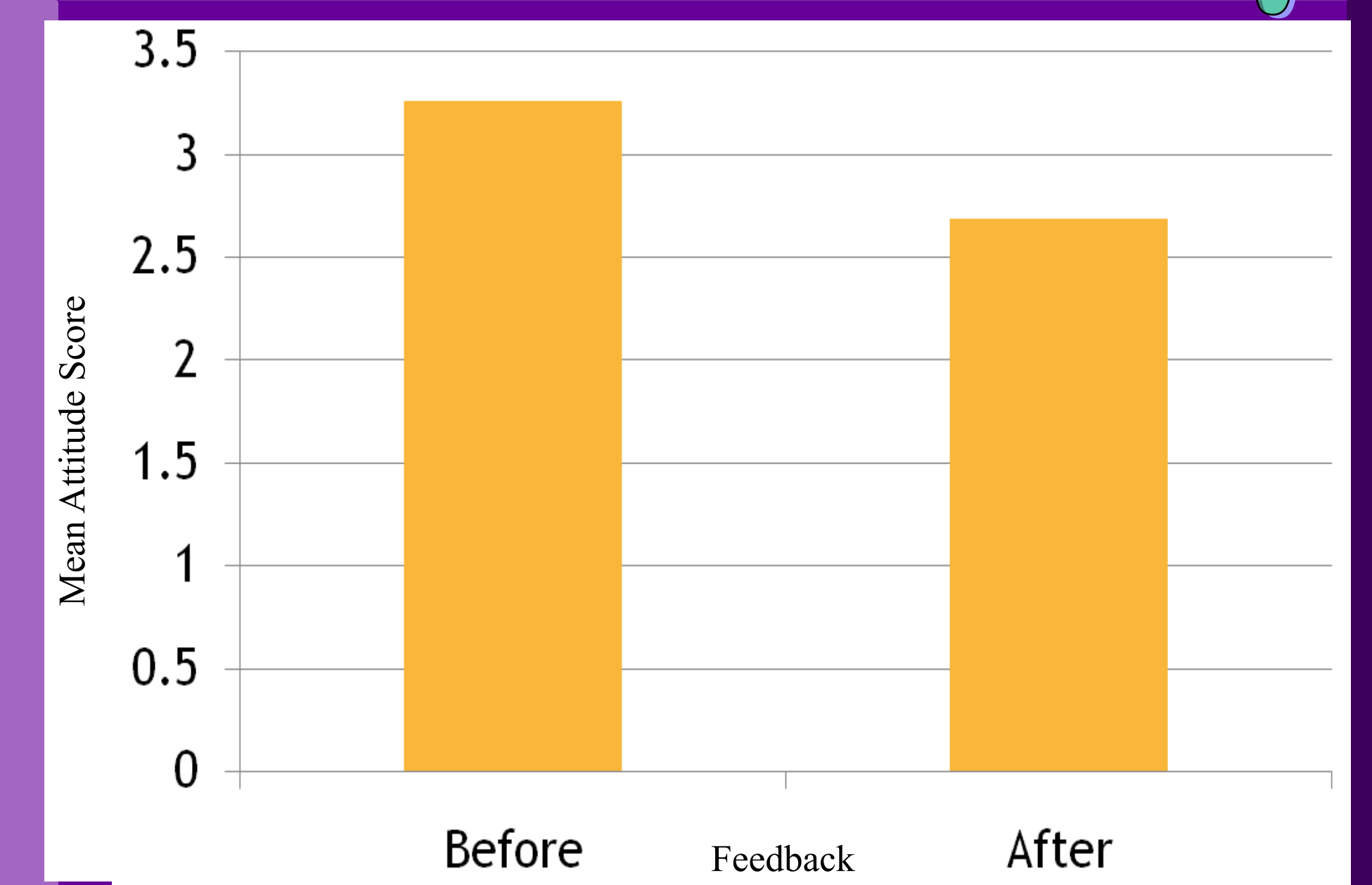
Results

- 2(sex) x 2(feedback) mixed design ANOVA
- ◆ **“Good at texting while driving”**
 - ◆ Men and women’s perceptions decreased after feedback ($p=.007$)
- ◆ **“Like to text”**
 - ◆ Women like to text more than men before and after feedback ($p=.008$)
- ◆ **“Important to them to text”**
 - ◆ Interaction between Sex and Feedback approached significance ($p=.086$)
 - Post hoc paired t-tests ($p<.05$)
 - ⇒ These were done because the graph showed an interaction
- ◆ **“Persist in behavior while driving”**
 - ◆ Men and women said they would not text and drive in the future after feedback ($p=.031$)
- ◆ No effect for other categories

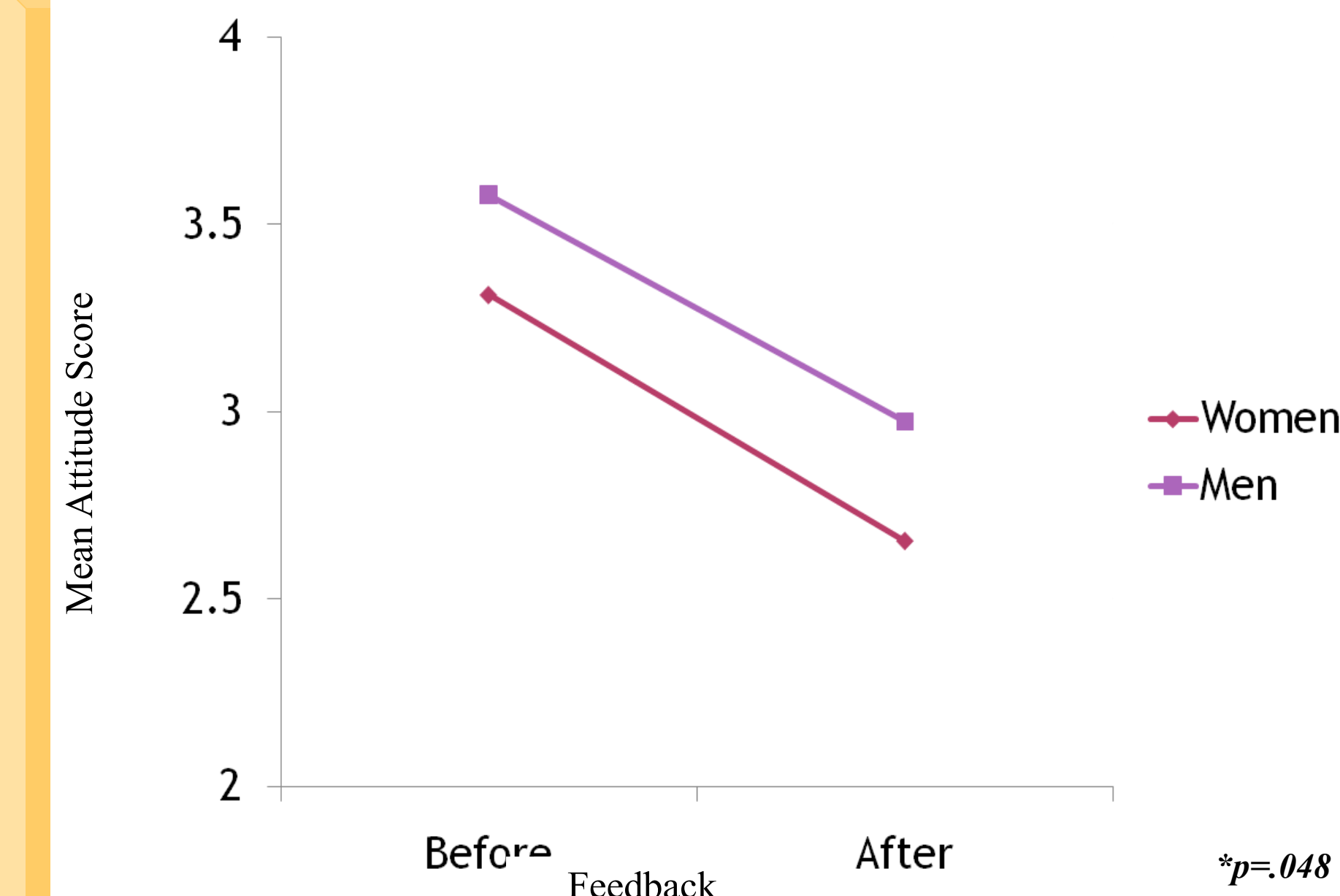
“Important to them to text”



“Persist in behavior while driving”



“Good at texting while driving”



“Like to text”



Discussion

Hypothesis was supported

- ◆ Giving students feedback about their ability to text and drive would:
 - ◆ Decrease confidence in texting
 - ◆ Supported in “Good at texting while driving”, “Like to text”, and “Important to them to text”
 - ◆ Decrease expectation to continue texting while driving
 - ◆ Supported in “Persist in behavior while driving”

Implications

- ◆ Showing mistakes made while texting can change how young drivers feel about texting and driving
- ◆ Students will think about the consequences before texting
- ◆ Decreases in automobile accidents caused by text messaging

Future Research

- ◆ This study measured self-report, future research should measure behavior more directly by having students keep a daily log of behavior
- ◆ Measure behavior 3 months later in order to see if the effect of feedback lasts
 - ◆ Focus on the type of phone used
 - Touch vs. Standard keypad
- ◆ Recruit a larger number of participants