



Despite its frequent usage, identifying the critical elements has proven difficult

It is more than how well you are doing





## History: Chapanis (1964)

- Physical counter mounted above their workstation
- Found objective, individualized feedback <u>did not</u> improve performance



#### History: Johnson, Dickinson, & Huitema (2008)

- Feedback was delivered via computer display
- Found objective individualized feedback <u>did not</u> effect performance



## **History:**

**Johnson** (2013)

- Feedback was personally delivered by the researcher during face-to-face conversations
- Found that objective, individualized feedback <u>did</u> improve performance

## Effects of Objective Feedback

Study	Effective Vs. No FB?
Chapanis (1964)	No
Crowell et. al (1988)	Yes
Johnson, Dickinson, Huitema (2008)	No
Johnson (2013)	Yes

# Variability in the forms by which feedback was delivered







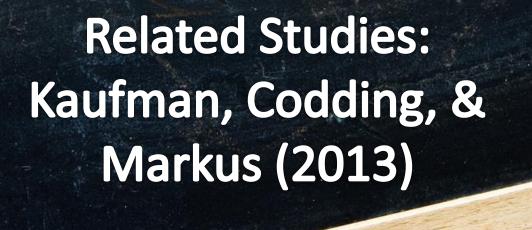


## Effects of Objective Feedback

Study	Effective Vs. No FB?	Modality
Chapanis (1964)	No	Counter
Crowell (1988)	Yes	Posted Charts
Johnson, Dickinson, Huitema (2008)	No	Computer
Johnson (2013)	Yes	Face to Face







- Training teachers to implement a new behavior intervention
- Verbal (face-to-face) feedback had a more immediate change in performance as compared to written feedback.



#### **THIS WAY**

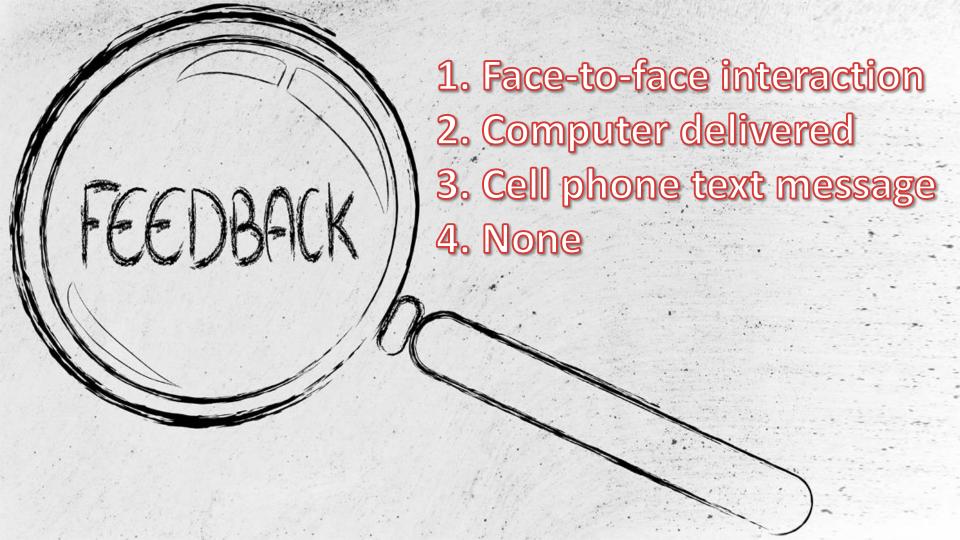
Inconsistent effects have been discovered when comparing face-to-face feedback with alternative modes

### NO, THIS WAY



## Purpose of Recent Research





Check-proofing task, similar to the job of a proof operator at a bank and used in many other studies (Johnson, 2013; Johnson, Dickinson, & Huitema, 2008; McGee, Dickinson, Huitema, & Culig, 2006; Slowiak, Dickinson, & Huitema, 2011)





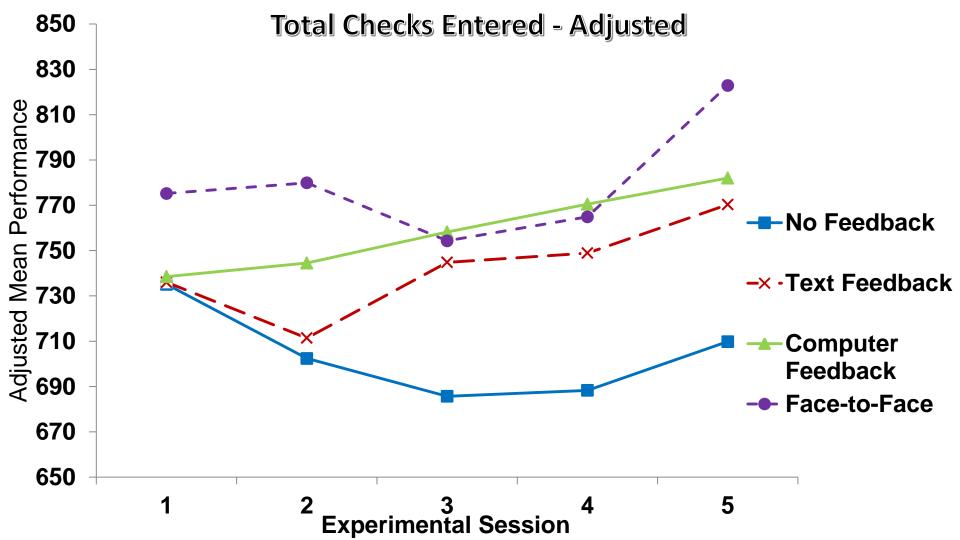


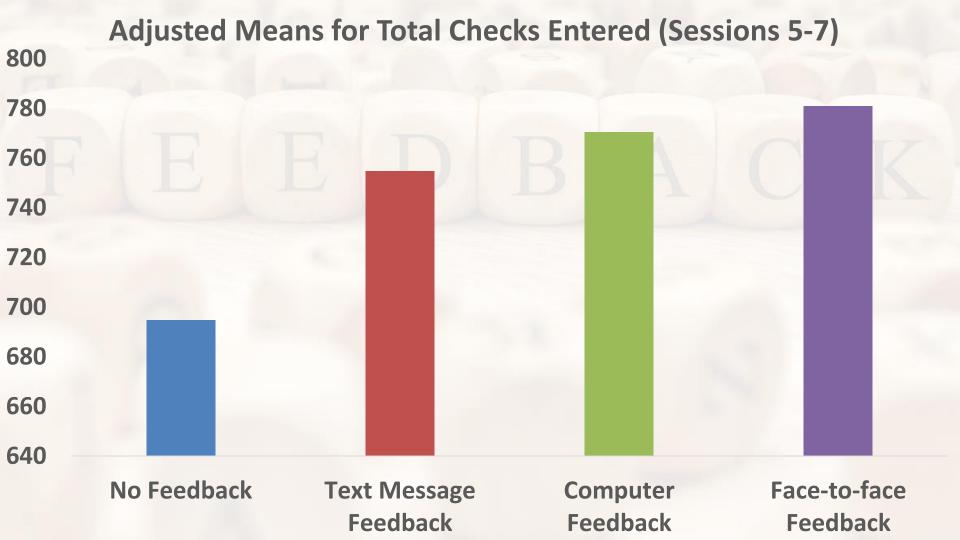
Text message: Same statement was delivered 2-5 minutes after the subject has left

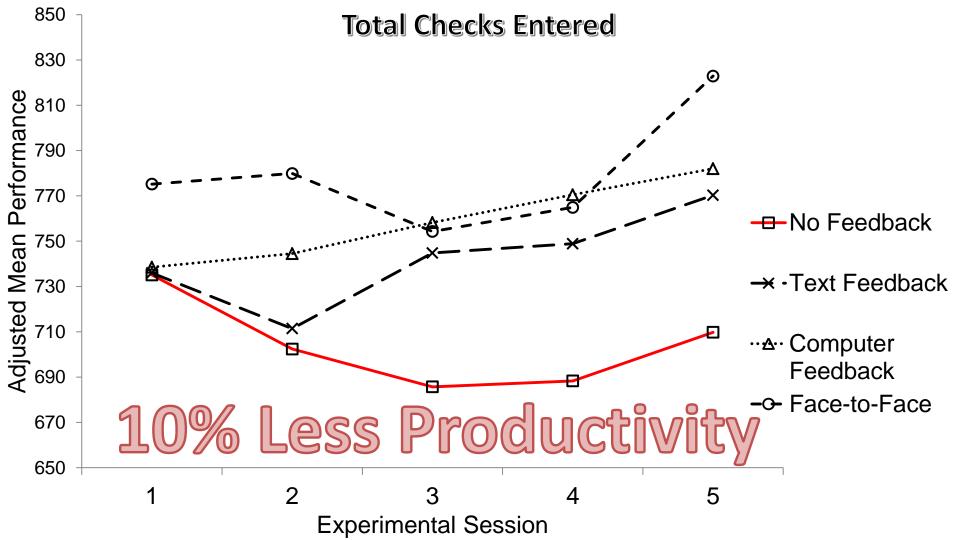


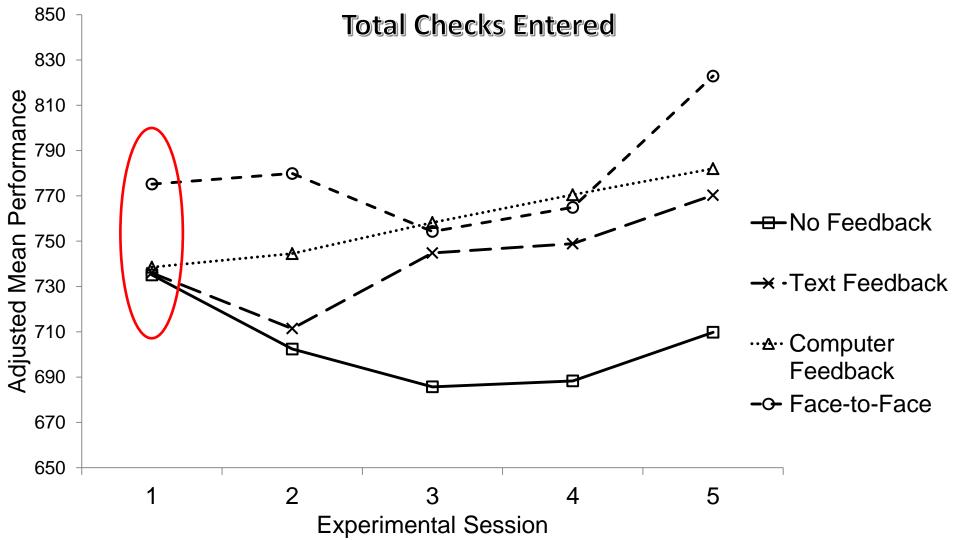


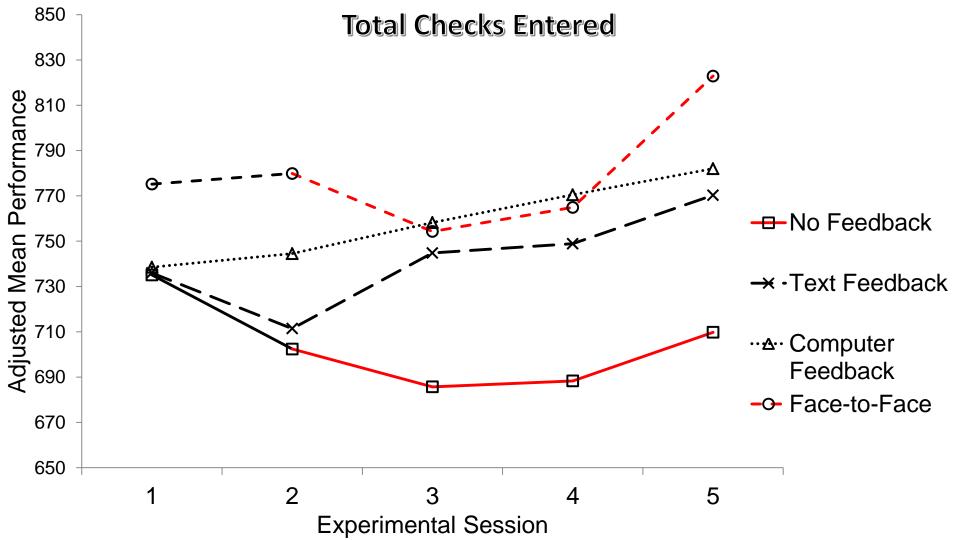


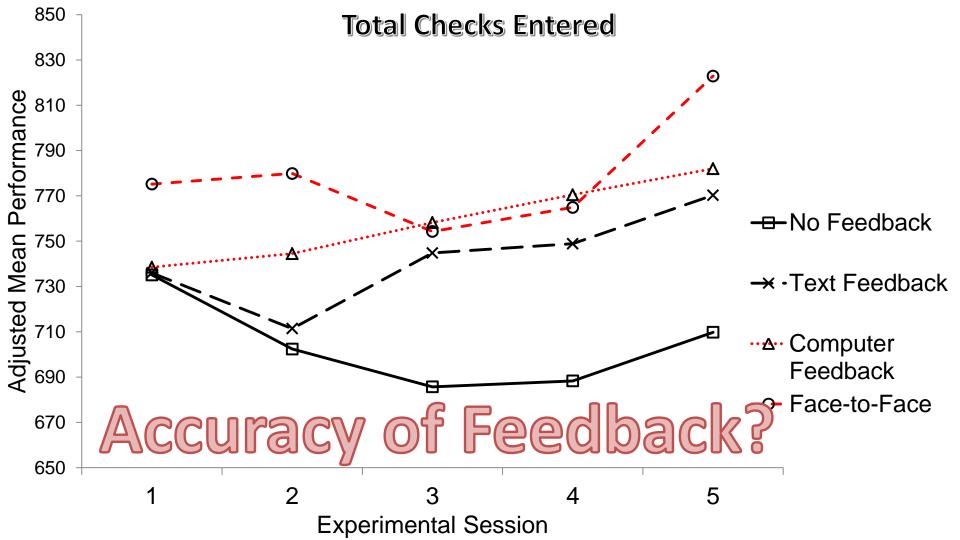




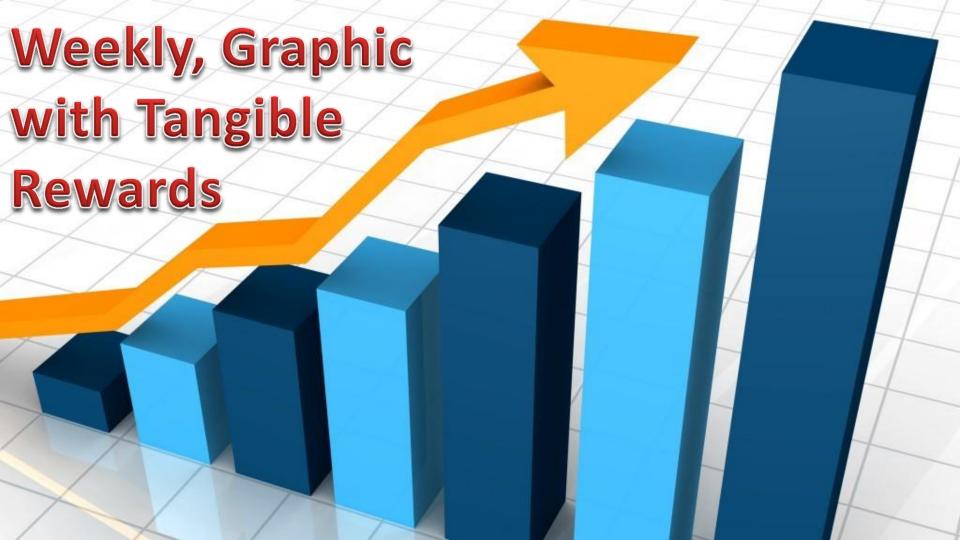




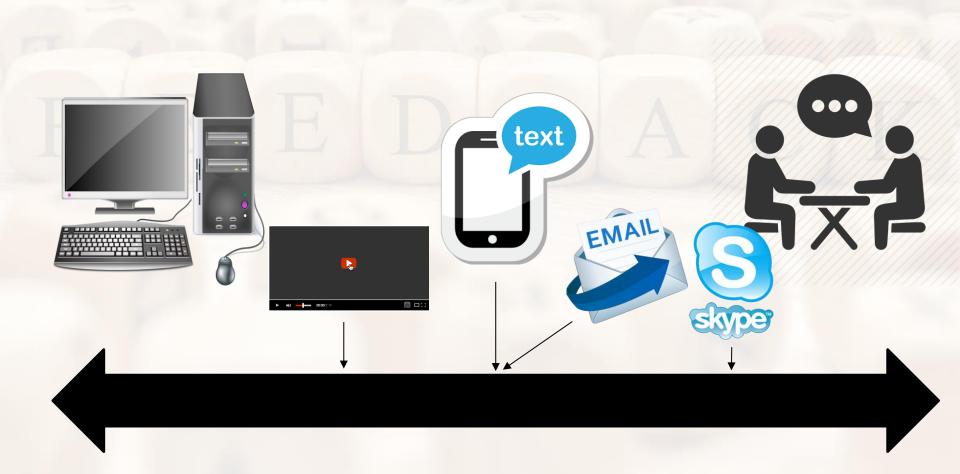








#### **Future Directions**











the robots are coming!

