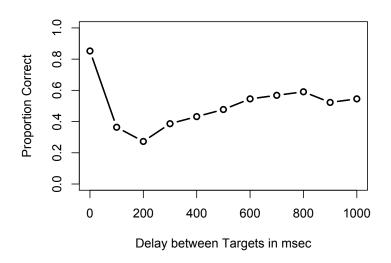
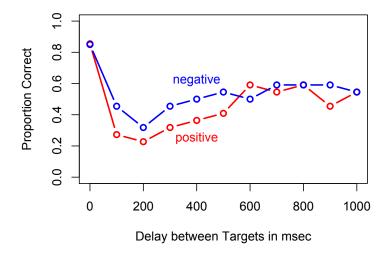
# Psychology of Perception Psychology 4165, Spring 2014 Laboratory 4 Group Project

# **Attentional Blink**



# **Attentional Blink**



Lewis O. Harvey, Jr.–Instructor Steven M. Parker–Assistant 11:00–11:50 MWF

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# Introduction

With this laboratory you will learn how to go through the various stages of scientific experimentation: from getting ideas for research to completing a finished experiment. You will work in groups to brainstorm about what questions to ask, then to search the recent experimental literature, then to design an appropriate experiment and finally to carry out the experiment and write up the results. Today you will proceed in six steps:

- 1. The class will be divided into four or five groups. Each group should choose a group leader to keep track of the group discussion by taking notes and then summarizing your best three ideas to the rest of the class.
- 2. Each group will then discuss for 10 minutes what questions about perception they would want to answer. The group should make a list of the three most interesting questions.
- 3. Each group leader will make a brief presentation of their group's questions. We will keep track of these ideas by writing them down on the blackboard. At the end of the presentations there will be at least 10 questions. There will then be a class discussion about these ideas. Each person should write down the three questions that most interest him/her.
- 4. The groups will now reconvene and pick one question from the lists of questions compiled by the group members. Each group member should go to Chinook or other internet resource and locate two papers published within the last ten years related to the question. The papers should be published in one of the journals listed below. Each group member should download pdf files of these articles and distribute them to the other group members.
- 5. The group members should read all the articles gathered by their group and discuss these papers among themselves. The purpose of these discussions is to identify a question that can be answered by a relatively simple experiment.
- 6. The group should now design an experiment that will answer the question your group has chosen. Before the experiment is carried out you need to have it approved by the instructor or the TA and you need to have completed your CITI training.

# **Laboratory Report**

The first draft of your lab report should contain six of the standard six parts: Cover Sheet, Abstract, Introduction, Methods, Results, Discussion and References. In the

introduction explain what the question is that you propose to answer. At this point the **abstract** will just be a sentence or two. The **introduction** typically starts out broadly and concludes with the specific question you intend to answer. You should refer to the relevant literature, including the papers that your group has assembled in the **introduction**. In the **methods** section describe what you propose to do. Make this section as concrete as possible at this stage. Include a description of the equipment you need and the specific procedure you will follow. Be explicit about what independent variable(s) you will manipulate and what values they will have. Be explicit about the dependent variable(s) you will collect and how you will analyze the data. Include a **reference** list of all the papers you have cited. Use the standard format of the American Psychological Association for citations and references.

Conciseness and clarity are extremely important characteristics of good scientific writing. Strive for them. We will give you feedback on your first draft before you actually start to carry out your experiment. Remember: keep these reports short, clean, and clear.

# **Suggested Journals**

Journal of Experimental Psychology: Human Perception and Performance
Perception and Psychophysics
Vision Research
Perception

# **CITI Certification**

You will be conducting an original experiment that you design. To meet ethical and institutional requirements all students in the class must do an on-line training on issues surrounding the testing and protection of human subjects. The web link below is the place to get started.

# http://humanresearch.colorado.edu/pre-submission/citi-training

All research involving human participants that is conducted by UCB faculty, staff or students must receive some level of review by the Institutional Review Board (IRB). All UCB faculty, staff, students, and faculty advisors engaged in research must have current educational certification. Certification is valid for three (3) years. If your certification is

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due to expire, please complete the Collaborative Institutional Training Initiative (CITI) Program tutorial to maintain your certification. If you have not completed any tutorial, you must complete the CITI Education program prior to obtaining approval to run your experiment.

This web site below gives specific information about how to do the CITI course and how to print your certificate: Clicking on the URL below will take you to the actual CITI web site:

https://www.citiprogram.org/

When you finish your training, print out your certificate and turn it in to us for our records.

# Schedule

7.	25 & 27 Feb 2014	Lab 3 data analysis Form Research Project Teams
		(Martin Chapters 6 & 7)
8.	4 & 6 Mar 2014	Lab 3 Report Due (50 points)
		Work on Group Projects
		First draft of project proposal due
		(Cover Page, Introduction, References)
9.	11 & 13 Mar 2014	Work on Group Projects
		Second draft of project proposal due
		Cover Page, Introduction, Methods, Expected Results, References)
10.	18 & 20 Mar 2014	Work on Group Projects: Data Collection
11.	25 & 27 Mar 2014	Spring Break-No classes
12.	1 & 3 Apr 2014	Work on Group Projects: Data Collection
13.	8 & 10 Apr 2014	Work on Group Projects: Data Analysis
14.	15 & 17 Apr 2014	Work on Group Projects: Data Analysis
15.	22 & 24 Apr 2014	Work on Group Projects
	•	Work on Project Presentations
16.	29 Apr 2014, Tuesday	All Group Project Presentations: All Groups, (10 points)
	30 Apr 2014, Wednesday points)	
	2 May 2014, Friday	Final Project Reports due in class (40 + 20 points)
	2 May 2014, Friday	Analytic Paper due in class (50 points)

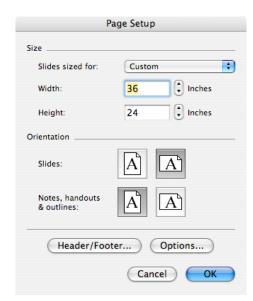
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# Hints for Making Posters

Posters are more formal than verbal presentations, but you still don't want to have too much material that will clutter the poster and distract the reader from understanding the main points you want to make. It is easy to prepare your posters using PowerPoint or Keynote. There are PowerPoint and Keynote poster template in Lab 4 Tools, which you can download from the course web site. If you create your poster without using a template, start up PowerPoint and make a new slide show with a single slide. You will make your poster on this single slide. Go to the File menu and select Page Setup... Choose Custom paper size and set it to 36 inches wide and 24 inches high. The dialog box should look like this:

Below is a sample poster: When making the layout keep the following points in mind:

- The font size of the title should be around 80 points and should fit on one line
- The font for the authors names and affiliation should be around 60 points
- About 1/3 of the area of the poster should be blank
- Use attention-grabbing graphics (a picture is worth a thousand words). The goal is to attract and focus attention on the important parts of your poster.
- Don't make your poster cluttered, put only essentials on it. You want to make it easy for the reader to grasp the main conclusion.



We will print the posters for you using the department's poster printer. You should concentrate on getting the layout right. There are excellent web sites giving advice on how to prepare effective posters. My current favorite is by Colin Purrington:

# http://colinpurrington.com/tips/academic/posterdesign

Look at it carefully and follow his advice. Below is a sample "good" poster from Purrington's web site, followed by two posters from a previous class

# Title, formatted in sentence case (Not Title Case and NOT ALL CAPS), that hints at an interesting issue and/or methodology, doesn't spill onto a third line (ideally), and isn't hot pink

# 666 Teipai Street, Posterville, PA 19801, USA **Colin Purrington**

Introduction

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Variable (units)

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Paragraph format is fine, but so are bullet lists of results:

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 Brainectomized rats ate less

Control rats completed maze faster, on average, without brains

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Figure 4. Label elements instead of relying on annoying keys that are defaults on most software. Add pictures of A and B if they are actually things (e.g., icons of aster and begonia flowers).

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If you're curious, this poster has 876 words (just look in File Properties to get this statistic). Aim for 500 words. If you are above 1000 words, your poster will be avoided.

Further information

More tips can be found on "Designing conference posters," and and the All of hipmuring good received postering the All of the All of

File and contents copyright Colin Purrington. May printed as handout for non-profit use. Plagiarizing, adapting, and hosting elsewhere prohibited.

You reader was mildly intigued by the title, but you have exceed by wo senteres to hook them in earding more. So describe eardly what your interesting question is and only it really needed to be addressed (framtions background information will cause them to walk away.

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Figure 1. A catchy photograph can help lure people to your otherwise boring poster. Yes, I risked my life getting this shot.

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Figure 2. Hand-drawn illustrations are preferable to computer-generated ones. Just bribe or film with an artist to get them to help you out. A photograph of you actually doing something might be nice.

Literature cited
Bonde, D. J. R. Boyne, and R. M. Brigham, 1996, Lunar condition
influences coynet. Cardin farmar). Involving. American Midland
Namuria; 1564,13477, and recombination rates. Pages 87405
in The Evolution of Sex, called by R.E. Michol and B.R. Levin.
Stance, Named-Named A.M.
Sovel, E. C. 2005. Evolution vs. Coentonium vs. Intendent M.M.
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University of California Press, Berkeley, Society for the Study of Evolution, 2005. Statement on teaching evolution – Study of Evolution acceley. Organiements Intril. Accessed 2005. Aug. 9.

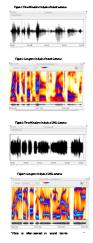
Don't just make up a format for your references—follow the standard citation format for your despither exempt. There me, if you deviate from absolute perfection, the Type Actation police will be on you within a few minners, and it won't be peretty. Note that you should not place a period after the journal name.]

# Speech Perception: The Effect of Priming on the Perception of Sine Wave Synthesized Speech Estelle Carlton, Jim Laudin, Kristen Toll & Thu Yen Tran

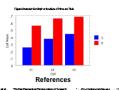
# Sponsored by: Lewis O. Harvey, Jr. & Benjamin L. Jacobson PSYC 4165, Department of Psychology



## Method



## Discussion



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Olfactory Memory and Cognitive Recall
Caitlin Froehlich, Jessica Graham, Jessica LaBudda, Colleen Micalizzi and Jessica Munday
Psychology of Perception (PSYC 4165)
Sponsors: Lewis O. Harvey, Jr. and Benjamin L. Jacobson

# Method

# smell Cell Group

References
Blake, R. & Sekuler, R. (2002). Perception. McGrav
Hill, 541-592.

Whittield, P., and D. M. Stoddard. 1984. Hearing, Taste, and Smell; Pathways of Perception. Torstar Books, Inc., New York, N.Y.

## Results

