Talking with Slides

A Cautionary Tale

Slides have become a staple for the majority of public presentations. However, slides can become a source of distraction that can affect the content people will retain. If we are to deliver exceptional presentations, we must discover what pieces of a presentation our audience will remember. How can we effectively use slides to enhance our presentations, instead of worsening them? Answering this question will enable us to create a framework that will help optimize presentations.

In order to understand the information audience members take away from a presentation, we must first test what information they currently remember. Next, we must analyze how people transition their focus to and from the slides and speaker. Finally, we can study how information from presentations is stored in the brain.

My presentation has identified the information that audience members retain from a presentation. I designed an experiment to identify if audience members would focus on the slides or my voice when they listen to presentations. Spelke has shown us that language processors can get jammed if there are multiple sources of language information. In this situation, audience members are receiving multiple sources of language, namely from the slides and the speaker. The audience can only focus on one language source, so I wanted to determine which language source they chose to focus on.

Using a pilot study with 10 college students, I made two groups of 5 students. I then made a presentation about Django, a python web framework, which is a topic unfamiliar to the participants. For Group A, I put 50% of the content on the slides while presenting the other 50% of the content vocally. For Group B, I took the slide content from Group A and presented it vocally, while the other 50% was presented via the slides. Both groups received the same content in the presentation, but I flipped in the mediums in which they received it. The subjects, on average, answered 7.4 questions from the slides correctly, and only 4.3 questions from the verbal piece of the presentation. This data is significant at the 1% level. This experiment illustrates that, when subjects were presented with differing content from the slides and the speaker, they chose to focus exclusively on the slide content.

I have confirmed Spelke's work that language processing does, indeed, get jammed when multiple language sources are present. Audience members cannot simultaneously process the slide and verbal content of a presentation. Additionally, this research has proven that verbal content is tuned out in the presence of slide content. Using this information, presenters should either present a very limited amount of content via the slides, or understand that people reading their slides will not pick up on what they are saying.

Speaking with Slides

A Cautionary Tale

Mitchell Kates

2 Million

Sol first 59 days

250 words / minute

Read

150 words / minute

Speaks





ENTITLEMENT REFORMS & SAVINGS

- Sets up a new sequestration process to cut spending across-the-board and ensure that any debt limit increase is met with greater spending cuts – IF Joint Committee fails to achieve at least \$1.2T in deficit reduction.
- If this happens, POTUS may request up to \$1.2T for a debt limit increase, and if granted, then across-the-board spending cuts would result that would equal the difference between \$1.2T and the deficit reduction enacted as a result of Joint Committee.
- Across-the-board spending cuts would apply to FYs 2013-2021, and apply to both mandatory & discretionary programs.
- Total reductions would be equally split between defense and non-defense programs. Across-the-board cuts would also apply to Medicare. Other programs, including Social Security, Medicaid, veterans, and civil & military pay, would be exempt.
- Sequestration process is designed to guarantee that Congress acts on the Joint Committee's legislation to cut spending.



AMAZON STAFF MEETINGS: "NO POWERPOINT"

November 30, 2012 · by Conor Neill · in Decision Making, Great Presentations, Organisation Behaviour, Powerpoint, Public Speaking

"We have study hall at the beginning of our meetings." says Jeff Bezos.

Staff meetings at Amazon begin with 30 minutes of silent reading.

Powerpoint is easy for presenter, hard for audience

"The traditional kind of corporate meeting starts with a presentation. Somebody gets up in front of the room and presents with a powerpoint presentation, some type of slide show. In our view you get very little information, you get bullet points. This is easy for the presenter, but



(I wish to remark here that I regard "double focussing" and "stage scanning" as two separate innovations; it would be possible to use each independently of the other in microscopy; the fact is that when both are used we obtain a very convenient and versatile instrument.)

In the stage scanning microscope no part of the optical system need be in motion except the specimen and its immediately mounting. The specimen itself is moved in some regular pattern in such a way that the vertex of the illumination cone described in (3) above describes a raster within the specimen. This raster must of course be fine enough to reveal the details of the specimen which are being studied. The advantage of this method (of moving the specimen rather than parts of the optical system) is that once the optical system has been adjusted for one point of the specimen, no further adjustment will be required, in general, for examination of other parts. In the instrument that I have constructed. the motion of the specimen is obtained by mounting the specimen on an electrically driven tuning fork, which tuning fork in turn is mounted so as to move in a directit direction perpendicular to the faster vibration of the tuning fork. The result is that the specimen is moved in such a manner that the illumination point described a" raster" within the specimen. Many other ways of moving the specimen are imaginable; the innovation is the very idea of such motion. The tuning fork method just described is particularly convenient in that the the electric signals which determine the position of the specimen can also be conventently be used to determine a corresponding position for the beam of a cathode ray oscillograph or other two-dimensional display device, and the information weeks obtained by the photocell (5) can be displayed (for example, as brightness) on this two dimensional display, thus forming an image of the specimen.

A feature of this instrument which is not obtainable in conventional microscopy, is that there is no necessity that the flame of the specimen being examined need be perpendicular to the optical axis of the instrument or that of the mounting of the specimen. For the motion of scanning may be made to include a component along the optic axis, (limited only be the working "working distance" of the objectives". This feature may be of great value in microscopy.

A converse of this system would be to fix the specimen and move the entire optical system. This would in general be much less convendent, but in the case that the specimen of interest happens to be immovable, it might be useful.

A related method, which I would not consider a persent converse, would be to move only the two pinholes. As will be explained, however, such an instrument would lose and essential optical aspect of the present invention, in that all light rays of importance are in the planes containing the optic axis.

III. I will now describe certain features of the system described above, and then certain features resulting when some modifications are introduced. Each of these features results in new domains of applicability.

The optical system as described has the novel feature that (##):all light rays originate at a point of the optical axis of the instrument, and only rays which terminate at another point



or



Spelke introduced us to language jamming

If we are deliver exceptional presentations, we must discover what pieces of a presentation our audience will remember.

Steps

Test presentation recollection

 Discover how people transition between slides and the speaker

 Analyze how information is remembered in the brain

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Test presentation recollection

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2 Groups

10

Male, MIT Freshman Participants

django

Same **EXACT** content

Example Slide for Group 1:

Django was started by two 2 people who worked in a newsroom

You can update and retreive articles very easily

They need a good way to store and access articles

Example Slide for Group 2:

When you have lots of data, Django is a good option for web development

Django already builds the framework, which saves a lot of time

Django is flexible and lets you use any database

Key Methodology Notes

Mixed in matching slide text vs. spoken text

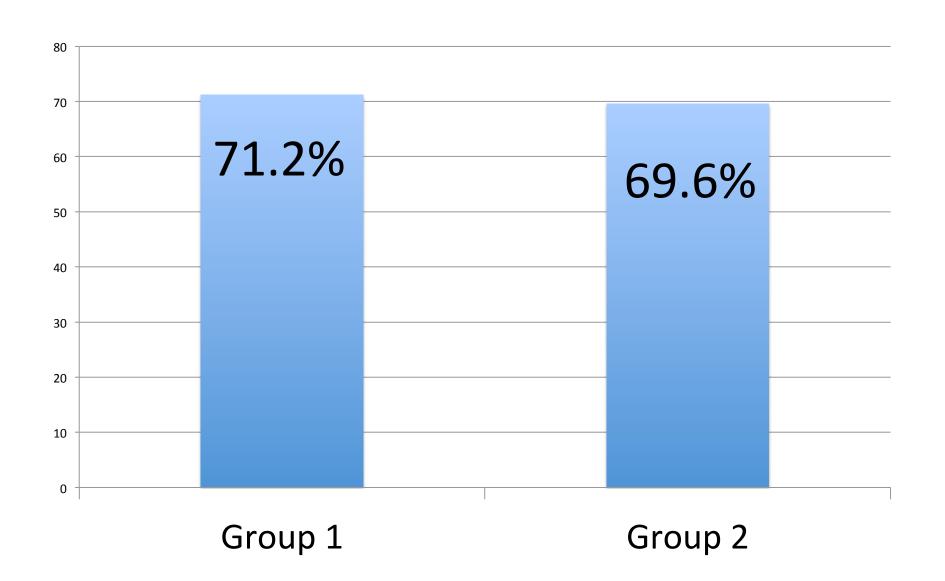
Uninformed about reason for study

Informed about quiz

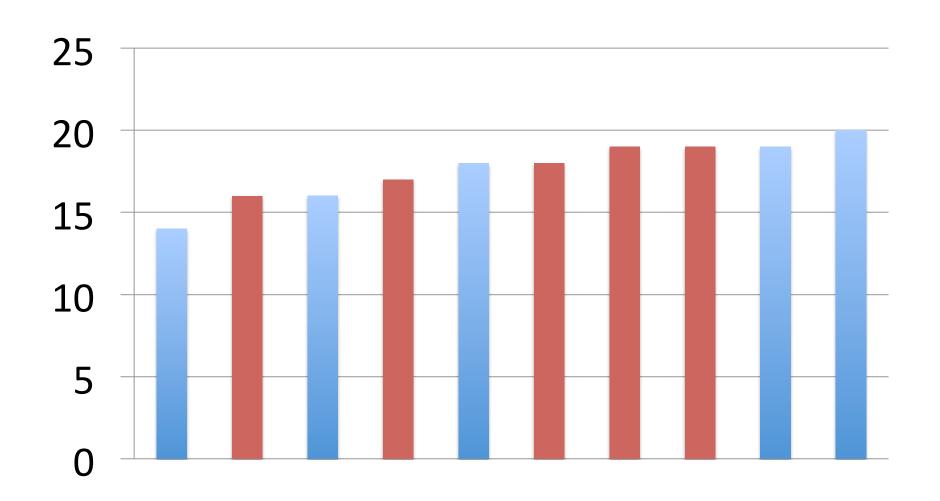
Small prize to highest scorer

2. Django is ideal because:			
a) It makes it easier to retrieve data			
b) Give users more freedom			
c) It isn't objected oriented d) Makes data visible to users			
u) Makes data visible to dsers			
3. Django helps the coder by already building the			
4. Django lets you use any			
a) Language			
b) Database			
c) Back End			
d) Fro	nt-End		
5. Circle ALL of the following components mentioned in the presentation:			
1. Controllers 5. Settings			
2. Mod		6. Admin	
3. URI	L Dispatcher	7. Initializer	
4. Vie		8. Templates	
6. You download 3 rd party plugins from			
7. T or F Plugins leverage problems solved by the Django creators			
8. Django plugins are added into the file			
9. T or F Anybody can develop a plugin for Django			
10. Circle ALL of the following companies who use Django:			
1.Gem		6. Disqus	
	1	7. Nest	
		8. Capterra	
4.Fan	•	9. Chart.io	
5. Tig	re	10. Healthy.com	

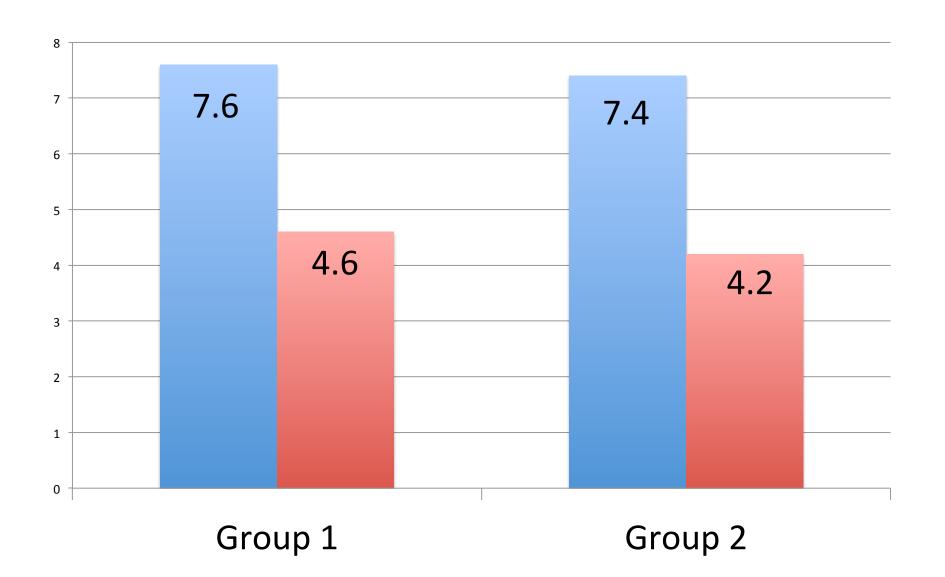
Average Scores



Score Breakdown



Information on Slides vs. Spoken



When slide content interferes with verbal content, the verbal content will be missed.

"I tried to focus on both, but it was too hard"

"You were distracting us from reading the slides"

"It got confusing going back and forth from the slides to what you were saying"

"Easier to recall from slides once I saw the same information on paper. Maybe it would be different if you asked us the questions"

FUTURE WORK

Change quiz format to verbal

Study if images jam language processing as well

Long-term recall

Contributions

 Discovered that slide content supersedes verbal content

 Confirmed Spelke's work suggesting our language processors can get jammed