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Presentation Logistics

- Next 11 weeks: CS 1900 internship presentations
- Final week: CS 1950 research presentations
- Check schedule on website that your name is there!
- All talks must be emailed to me by Thursday midnight the day before your presentation
 - Preferred format: PDF
 - Alternative format: Powerpoint, Keynote
 - Please number your slides!



On the day of your presentation ...

- Max 9 students per day / 5 minutes for each student
 - I will cut you off if you go over 5 minutes
 - I will hold up a sign when you only have 1 minute remaining
- Please DO NOT be late to class!
 - Presenters please come 5 minutes early to set up
- Designated front row for presenters
 - Presenters will sit in the order of their presentations
- Slides will be stored in order on in-class computer
 - At end of talk, please close your slides and open next slides

TESBURCH

Peer Review Logistics

- Please use the review form on course website
- Email review to our TA by end of day of talk
 - TA will collect 5 peer reviews + my review and forward
- Review assignment table to be posted this weekend
 - Assignments done using a Reviewer ID for anonymity
 - Each row has ID followed by 5 people you need to review
 If row is: "23" "John" "Jane" "Ben" "Mary" "Alex",
 reviewer 23 is expected to review these 5 people
 - Your reviewer ID will be emailed to you individually

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Peer Review What Not To Do

- Don't be lax but also don't be harsh
 - I expect the majority of students to get 4 out of 5
- Don't judge presenter on the work done
 - Judge presenter on how the work was presented
- A peer review is not about ...
 - Humiliating your peer
 - Demonstrating your vast sea of knowledge
 - Complaining about how much time was wasted listening
 - Using wording that triggers an emotional response

TESBURCH

Peer Review What To Do

- Take care to write summary of talk
 - Shows your peer that you actually paid attention
- Support your overall merit score with data
 - Your subcategory scores should support your overall score
 - Your comments should give further justification
- Be constructive
 - Positive comments are just as valuable as negative ones.
 - Remember, the goal is to help your peer



Now let's talk about giving a good talk



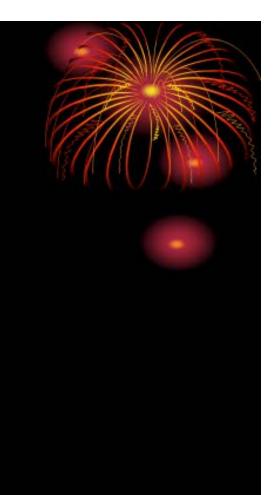
But first, some slide design fails



Admire my beautiful slide

OUTLINE

- Introduction
- Experimental
- Results
- Discussion
- Conclusions
- Future Work





Admire my beautiful slide

- A slide is not a work of art curb your enthusiasm
- Fonts, colors, and style should be consistent
 - If not, the difference should convey a meaning
- Also remember, a portion of population is color blind
- By the way, was that outline slide really necessary?
 - Most talks are structured that way no information content

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Read my code

```
Algorithm 1 A simple recursive scoring scheme.
                                                                                                                             O
1: Function score(p \in \mathcal{P}, A.R \in \mathcal{R}, v \subseteq \mathcal{V}) : \mathbb{R}
2: // Filter credentials and initialize storage vector
                                                                                                                             a
3: C = \{c_i \mid c_i \in v.C \land \mathsf{head}(c) = A.R\}
4: Discard all c_i \in C of the form A.R \leftarrow P', P' \neq P
5: \overline{s} = [1, 0, ..., 0] // vector in \mathbb{R}^{|C|+1}
                                                                                                                             \mathbf{f}
6:
7: for all c_i \in C do
                                                                                                                             t
          \overline{w_i} = v.\mathcal{A}.\mathsf{weight}(c_i) // \mathsf{weight} \mathsf{vector} \mathsf{for} c_i
                                                                                                                             r
9:
          if c_i = A.R \leftarrow P then
10:
               \bar{t} = [1, 1]
11:
           else if body(c_i) = B_1.R_1 \cap \cdots \cap B_k.R_k then
12:
               \bar{t} = [1, B_1.\mathsf{score}(p, B_1.R_1), \dots, B_k.\mathsf{score}(p, B_k.R_k)]
13:
           else if body(c_i) = A.R_1.R_2 then
                                                                                                                             tl
14:
               Find B \subseteq A.R_1 such that \forall B_i \in B : P \in B_i.R_2
                                                                                                                             a
15:
               \overline{t} = [1, max_{B_j \in B}(B_j.score(p, B.R_2))]
           if \overline{t} contains any 0 entries then
16:
                                                                                                                             \overline{u}
17:
               \overline{s}[i] = 0
18:
           else
               \overline{s}[i] = \overline{t} \cdot \overline{w_i}
19:
                                                                                                                             \mathbf{C}
20:
21: // Get master weight vector and combine all weights
22: \overline{w} = v.A.weight(A.R)
                                                                                                                             f
23: return \overline{s} \cdot \overline{w}
                                                                                                                             r
```

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Read my code

- Hate to break it to you but ...
- Nobody wants to read your code (if avoidable)
- If you really feel the need ...
 - At least explain at a high level what the code is trying to do
 - Focus audience attention at the part that is interesting

THE THE TABLE TO T

I am a math whiz

$$\mathsf{score}(p, A.R, v) = \sum_{\substack{(C_i, w_i) \in \mathsf{osets}_{\omega}(v.C, A.R)}} w_i \cdot \frac{1}{2}^{v_i}$$

$$\omega_{len}(C_s, _) = \gamma^{\max_{p \in \mathsf{paths}(C_s)}(\mathsf{length}(p))}$$

$$\omega_{ind}(C_s, C) = 1 - \frac{\max_{C_i \in C \setminus \{C_s\}}(|C_s \cap C_i|)}{|C_s|}$$

$$\omega_{li}(C_s, C) = \alpha \cdot \omega_{len}(C_s, _) + \beta \cdot \omega_{ind}(C_s, C)$$

THI CAN THE STREET

I am a math whiz

- Well guess what. Many are not.
- Translate math to plain English whenever you can

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Just read my text

Proof sketch:

Monotonic. To prove the monotonicity of Equation 6, we proceed by induction. We first assume that principal p has previously discovered the (ordered) collection of proofs and weights $(C_1, w_1), \ldots, (C_n, w_n)$ for the role A.R. The base case that we must consider is that a new pair (C_s, w_s) is discovered such that no weight w_i is less than w_s . In this case, this new pair will introduce a new term to the end of the summation calculated by Equation 6, thereby increasing principal p's score for the role A.R.

Assume that (C_s, w_s) can be inserted before up to n terms in the sequence of (c_i, w_i) pairs while still preserving the monotonicity requirement. Now, assume that p has previously found proofs of authorization with the sequence of weights $S = (C_1, w_1), \ldots, (C_i, w_i), \ldots, (C_{i+n}, w_{i+n})$ and has now discovered a (C_s, w_s) pair such that $w_s > w_i$, thereby needing to be inserted before n + 1 terms in the sequence S. We first note that replacing (C_i, w_i) with (C_s, w) will generate a sequence S' that—when used in conjunction with Equation 6—will produce a score greater than that produced using S, since $w_s > w_i$ and all other terms are the same. By the inductive hypothesis, (C_i, w_i) can then be re-inserted before the n final terms of S' while still preserving monotonicity.



Just read my text

- Then why am I listening to you?
- Having too much to read can interfere with listening
 - Did you know?
 Reading and listening exercise same part of brain



Content and delivery are just as (perhaps more) important

THI CAN THE STREET

Issues with Content and Delivery

Issues with content:

- Why should we care about the problem?
- How will the results be useful in practice?
- Had no idea where talk was going!
- Missing context to understand problem setup

Issues with delivery:

- Lack of eye contact
- Lecturing to the board/laptop, not the audience
- Speaks too quickly / too slowly
- Overruns allotted time

Structure your talk based on your audience and the time that you have



Your audience: Generally smart individuals

- Computer Scientists? Yes
- Knowledgeable about your area? Maybe
- Knowledgeable about your problem? Probably not

Time is usually limited

Invited talk: < 1 hour</p>

Conference talk: 20 minutes or so

Elevator talk: < 2 minutes</p>

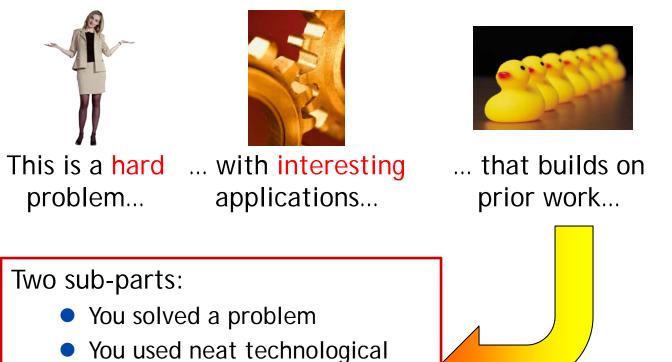
Your talk: 5 minutes

This is not a lot of time...



Bottom line: Your audience should learn something from your talk

That's not a lot of time, how should I structure my talk to relate to these people?



Hint: Try to give audience one good take-home point

advancements to do this

It's not just what you say, but how you say it



- Make eye contact with your audience
 - □ Corollary: Face your audience
- Some movement is good
- Don't speak too fast (or too slow!)



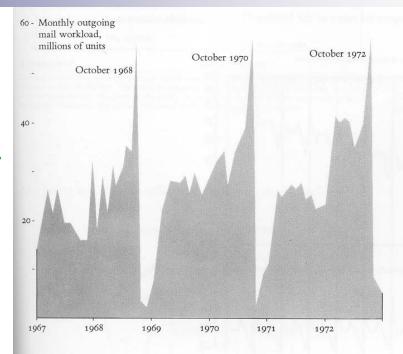




- One primary idea per slide
- Use slide titles to convey take-away message
- Do not read your slides!
- A picture is worth a thousand words...

A picture is worth a thousand words

- Edward R. Tufte, The Visual Display of Quantitative Information. Graphics Press (2001)
- Graphic shows fluctuating mail workload in sync with the timing of political elections



The graphic is worth at least 700 words, the number used in a news report describing how incumbent representatives exploit their free mailing privileges to advance their re-election campaigns:

Testimony Finds the Volume
Rises Before Elections

Testimony Finds the Volume
Rises Before Elections

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Testimony

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response.

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MASHINGTON, June 1 (AP)

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Practice, Practice, Practice

- Practice makes better
 - Alone: Work on your "script," smooth out transitions
 - Peer group: Get used to other people being around
 - Broader population: Assess outsider comprehensibility
- "Flash" is good, but too much flash is distracting
 - Good: Animations to progressively build diagrams
 - Bad: Animating every slide transition, every line
- Make sure you refer to every item on a slide
 - If you don't, it is always better to remove that item

It takes three weeks to prepare a good ad-lib speech

