

# ECE297

## Oral Presentation

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UNIVERSITY OF TORONTO  
FACULTY OF APPLIED SCIENCE & ENGINEERING

### M4 Design Document

- *Lessons Learned:* **Worth 15% of the M4 grade**
  - ▶ 500-600 words, written and submitted individually
  - ▶ Discusses challenges and/or learning opportunities in *three areas* in the course:
    1. Programming
    2. Written or oral communications
    3. Team work
  - ▶ Might answer: “What would I do differently if I could start again? Why would I do it differently?”

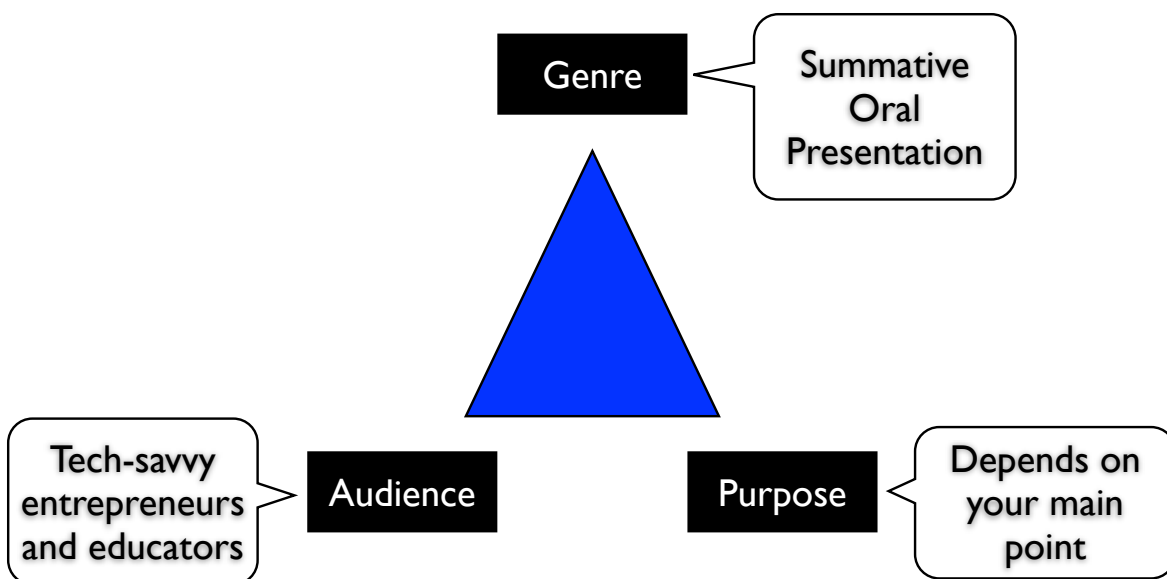
**Your CI will discuss Lessons Learned in next week’s tutorial**

**REVIEW**

## Actions for a Good Presentation

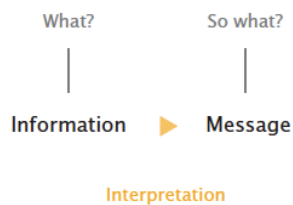
1. Demonstrate knowledge of subject
2. Show a distinctive approach to subject
3. Connect with audience and teammates
4. Use positive body language
5. Speak clearly

## Final Presentation



# Effective oral presentations

Jean-luc Doumont



Get your audience to

- pay attention to,
- understand,
- (be able to) act upon

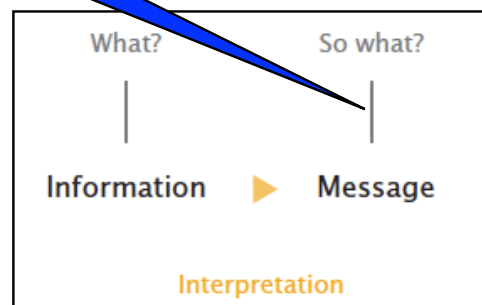
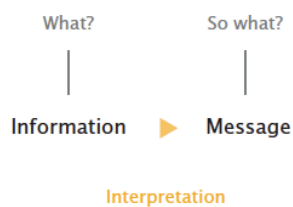
a maximum of messages, given constraints

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

# Effective oral presentations

Jean-luc Doumont

Create presentations  
rich in messages



<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

# Effective oral presentations

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## Effective Oral Presentations

To optimize communication...

First law

**Adapt to your audience**

Second law

**Maximize the signal-to-noise ratio**

Third law

**Use effective redundancy**

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Effective Oral Presentations

For an effective presentation...

1

### **Plan the presentation**

Gather your thoughts

2

### **Design the presentation**

Define a structure

3

### **Create the slides**

Convey messages

4

### **Deliver the presentation**

Master all channels

5

### **Answer questions**

Drive your point home

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Effective Oral Presentations

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Master all channels

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### **Answer questions**

Drive your point home

**Decide on a main  
message**

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

# Effective Oral Presentations

For an effective presentation...

1

**Plan the presentation**

Gather your thoughts

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**Design the presentation**

Define a structure

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Convey messages

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**Deliver the presentation**

Master all channels

5

**Answer questions**

Drive your point home

Choose a path that  
leads the audience  
toward your goal

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

# Effective Oral Presentations

First, focus on  
your audience

Introduce your-  
self in the task

**Attention getter**

**Need**

**Task**

**Main message**

**Preview**

**Point 1**

**Transition**

**Point 2**

**Transition**

⋮

**Review**

**Conclusion**

**Close**

**Plan the presentation**

Gather your thoughts

**Design the presentation**

Define a structure

**Create the slides**

Convey messages

**Deliver the presentation**

Master all channels

**Answer questions**

Drive your point home

Focus again on  
your audience

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Effective Oral Presentations

For an effective presentation...

Choose messages  
that best support  
your main point

1

**Plan the presentation**

Gather your thoughts

2

**Design the presentation**

Define a structure

3

**Create the slides**

Convey messages

4

**Deliver the presentation**

Master all channels

5

**Answer questions**

Drive your point home

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Effective Oral Presentations

For an effective presentation...

Create a style  
appropriate to your  
audience and  
situation

1

**Plan the presentation**

Gather your thoughts

2

**Design the presentation**

Define a structure

3

**Create the slides**

Convey messages

4

**Deliver the presentation**

Master all channels

5

**Answer questions**

Drive your point home

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Effective Oral Presentations

For an effective presentation...

Convey your  
messages clearly

1

**Plan the presentation**

Gather your thoughts

2

**Design the presentation**

Define a structure

3

**Create the slides**

Convey messages

4

**Deliver the presentation**

Master all channels

5

**Answer questions**

Drive your point home

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Effective Oral Presentations

1

**Listen** to the whole question,  
to ensure you understand it.

**Plan the presentation**

Gather your thoughts

2

**Repeat/rephrase** as needed,  
so others understand it, too.

**Design the presentation**

Define a structure

3

**Think** to construct an answer  
that is brief and to the point.

**Create the slides**

Convey messages

4

**Answer** to the whole audience,  
keeping eye contact with all.

**Deliver the presentation**

Master all channels

**Answer questions**

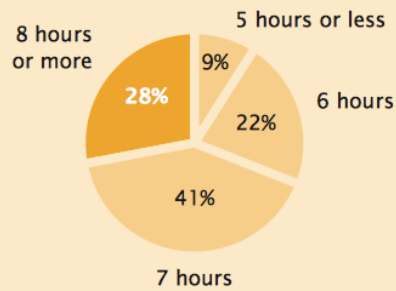
Drive your point home

<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

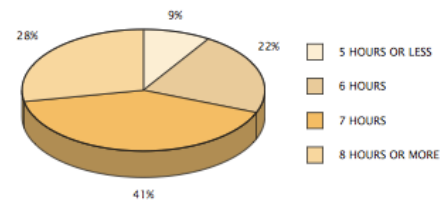


## Create slides that deliver a clear message

Only 28% of adults sleep the recommended 8 hours



DISTRIBUTION OF THE NUMBER OF SLEEP HOURS FOR ADULTS



L'hebdo au féminin 106, p. 3, November 12, 1991



<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Delivering the Presentation

### Verbal delivery

Memorize your outline but not your wording.  
Eradicate filler words; learn to value silences.

### Vocal delivery

Adjust mean tone, rate, volume. Modulate  
to convey meaning, complexity, importance.

### Visual delivery

Project confidence by controlling your body  
from toe to head: quiet noise, send signals.



<http://www.treesmapsandtheorems.com/pdfs/TM&Th-3.0-summary.pdf>

## Slide Design

- Provide informative headings
- Minimize the number of slides
- Maximize the use of visuals
- Use point-form text where possible
- Reference sources at bottom of slides

If you choose to use colour

Yellow on white is hard to read

Red on blue appears blurry

Blue on red appears blurry

## In the slide format proposed by Michael Alley

- The header contains an entire idea, not just a few words signifying the topic
- Whole sentences may be used in bullets
- A graphic element is often incorporated in the right

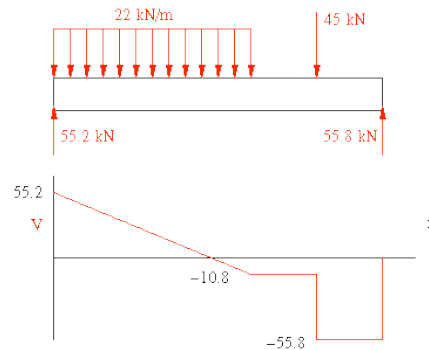


Figure 1: Shear Force Graph

<http://www.writing.engr.psu.edu/slides.html>

## Incorporating words and visuals

- Text to the left
- Figure to the right

Is this graphic  
easy to read? →

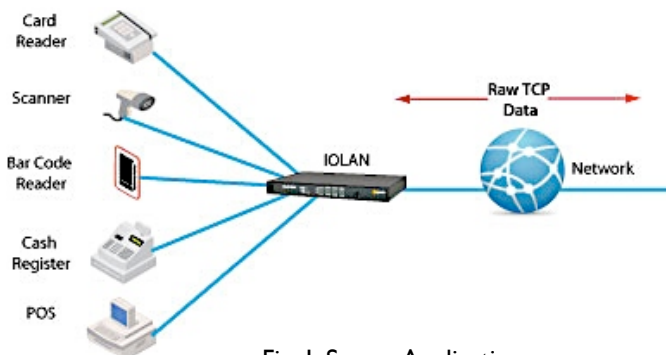


Fig. 1: Server Application

<http://www.perle.com/products/Serial-to-Ethernet.shtml>

## Two presentation overviews...

### Agenda

- ▶ Problems
  - Rising Electricity Demand
  - Consumer Perception of Electricity Use
- ▶ Motivation
  - Consumer Awareness
  - Social Psychology
- ▶ Our System: A Household Power Monitor Control Network
- ▶ Project Status
  - Achievements
  - Delays



### Outline

- Project Goal
- Project Requirements
- System-Level Design
- Progress
- Conclusion

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## Two presentation overviews...

### Agenda

- ▶ Problems
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Provides audience with substantive information about project

### Outline

- Project Requirements
- System-Level Design
- Progress
- Conclusion

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## Two presentation overviews...

### Agenda

- ▶ Problems
  - Rising Electricity Prices
  - Consumer Powerlessness
- ▶ Motivation
  - Consumer Awareness
  - Social Psychology
- ▶ Our System: A Household Power Monitor and Control Network
- ▶ Project Status
  - Achievements
  - Delays

Generic;  
provides  
audience with no  
understanding of  
project

### Outline

- Project Goal
- Project Requirements
- System-Level Design
- Progress
- Conclusion

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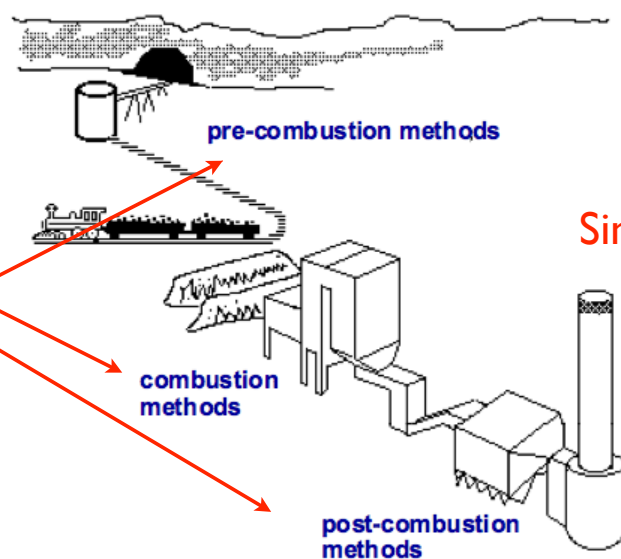
### Overview Slide

**This presentation compares several methods  
for reducing emissions of sulfur dioxide**

Informative  
overview  
heading

Easy to  
process  
text

Simple visual



[http://www.writing.engr.psu.edu/speaking/rethinking\\_penn\\_state.pdf](http://www.writing.engr.psu.edu/speaking/rethinking_penn_state.pdf)



[Edit your slides](#)

Original Slide 1

## How the principles in the textbook connect to the assignments

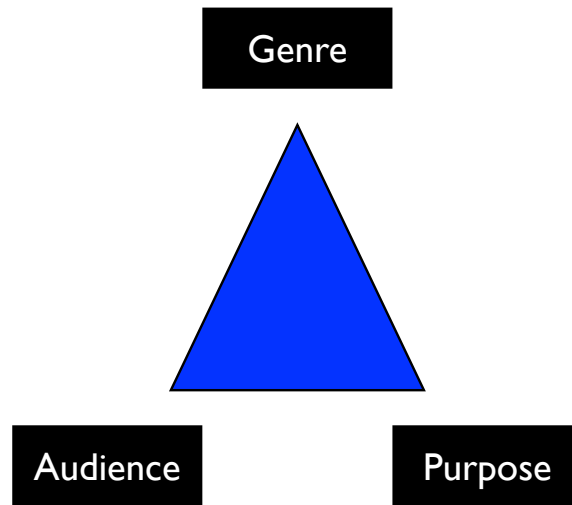
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- **Purpose** - the goal that motivates our communication
- **Genre** - the nature of our response to a situation
- **Audience** - the individual/group to whom we aim



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## Communication Triad



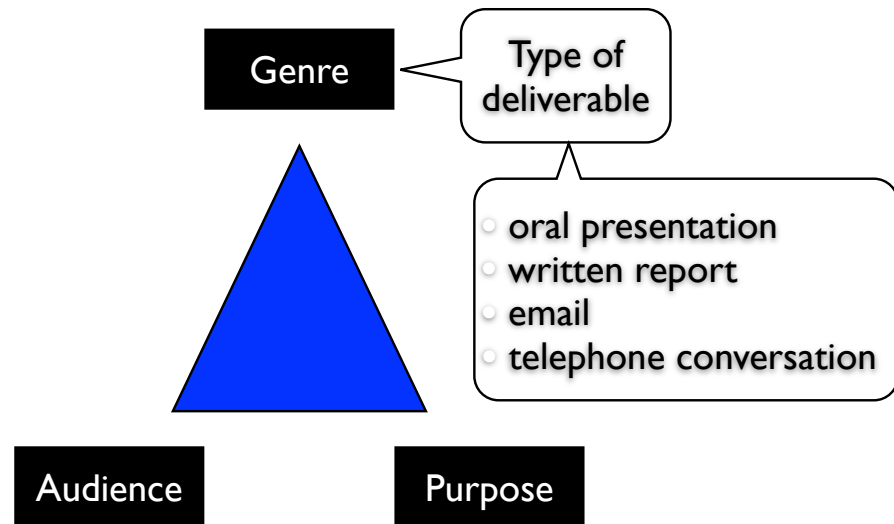
## Each genre of engineering document has a unique purpose

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- Genre is a term that defines both the structure of a document and the expectation of the reader of the document
- Common engineering genres are
  - Technical reports (lab report structure)
  - Proposals
  - Specifications
  - Progress reports
  - Instructions
  - Recommendation reports



## Communication Triad



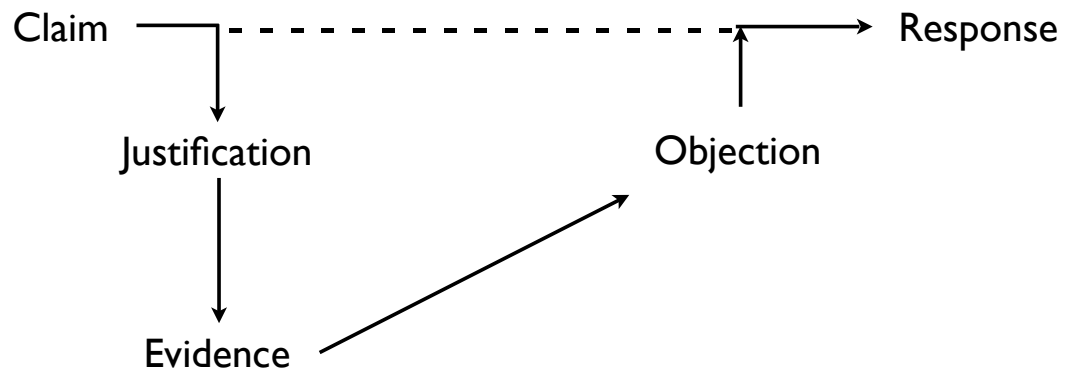
## Credible Argument

- Primary elements of argument
  - Claim: the assertion you are making
  - Evidence: supporting facts, data, statistics
  - Explanation: explains the claim and/or the evidence.

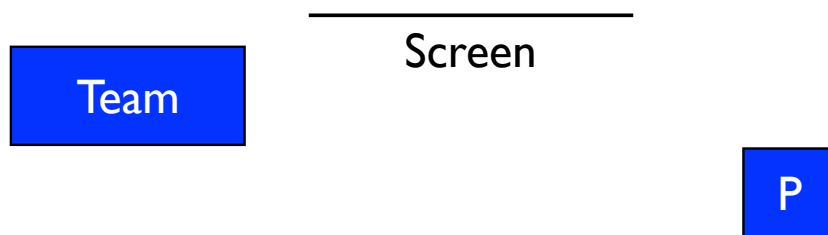




## Mapping a complex deductive argument



## Presentation Physical Blocking

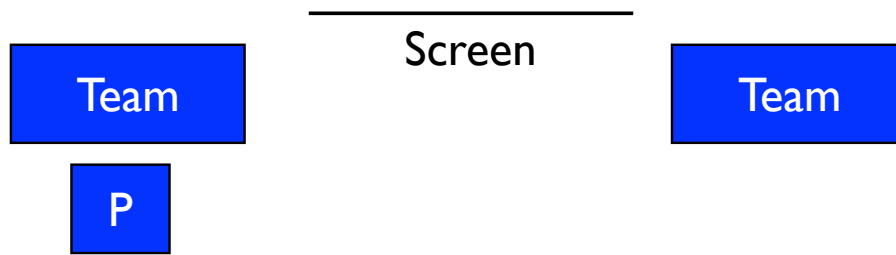


Presenter in power position

Presenter must cross screen to present



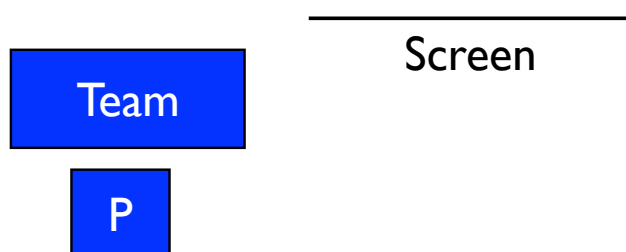
## Presentation Physical Blocking



Breaks large team into groups  
Presenters can begin by taking one step forward  
Easy reference to slides



## Presentation Physical Blocking



Effective for smaller teams



## Steve Jobs: June 7, 2010



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## Steve Jobs: June 7, 2010

- Adapt to your audience?
- Maximize the signal-to-noise ratio?
- Use effective redundancy?



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## Questions?