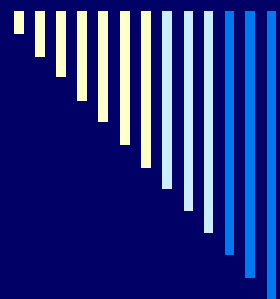


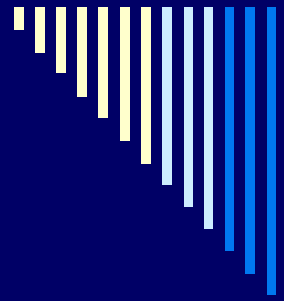
Tips for a Successful Presentation

Denise Michaelsen
Chetek High School



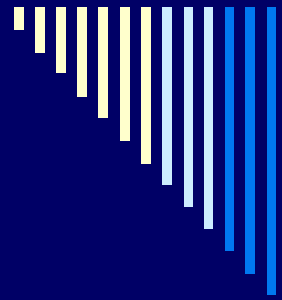
Seminars

- Skill essential for scientists
 - Communicate your research
 - Share information with many audiences
- Public speaking is difficult
- The more you do it, the better you'll be.



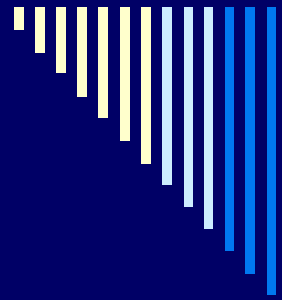
Things to think about before you begin

- What is your purpose?
 - Who is your audience?
 - What are your guidelines?
-



Assessment

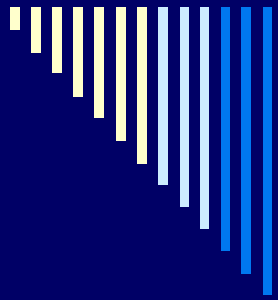
- Has to be useful for all types of seminars
- Types
 - Informational
 - Research Proposal
 - Research



Presentation of topic

- Title
- Introduction
- Content
- Tables/Figures
- Citations
- Summary/Closure

*Use of an outline

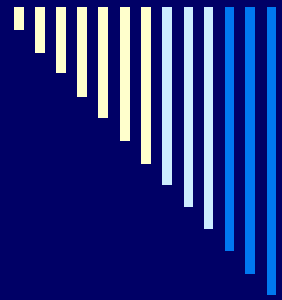


Title

- Clear
- Concise
- Attention grabber

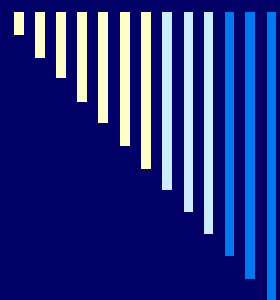
Vaccination: Is it really necessary?

The Current Vaccination Policy in the
United States and the Public's Feelings
of the Current Policy



Introduction

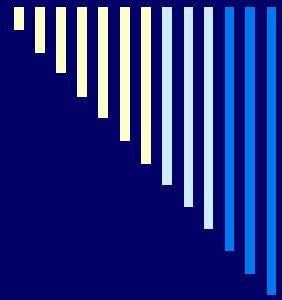
- Background information
 - Start simple and get more complex
 - Watch the use of abbreviations and jargon
 - Need to have references
- Significance of the topic
 - Why should we care?
 - State in simple terms



Content

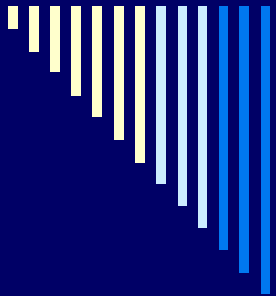
- Thorough coverage
- Is it necessary?

- What type of seminar are you giving
 - Materials and Methods
 - Research proposal vs research based talk



Tables/Figures

- Easy to read
- Easy to understand
- Explain your figure



RESULTS

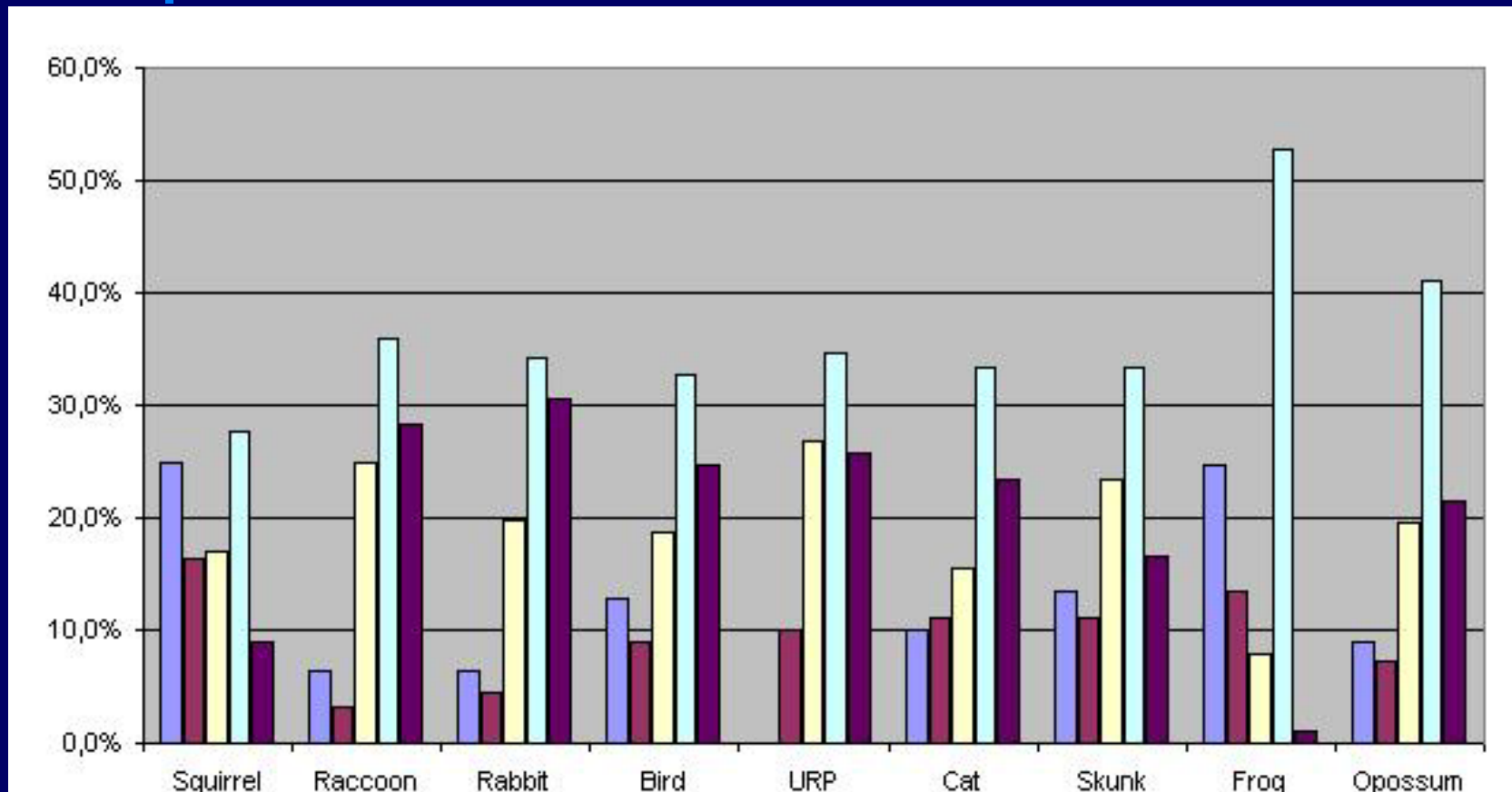
A.C. Buildings

<u>Building</u>	<u># of Tests</u>	<u>Mean</u>	<u>Std. Error</u>
CTW	2	449.000	238.000
Ludden	2	225.000	66.000
Mantor	2	172.000	31.000
Randall	2	266.500	94.500
URN	2	116.500	28.500
URS	2	134.500	37.500
CTE	2	552.500	103.500

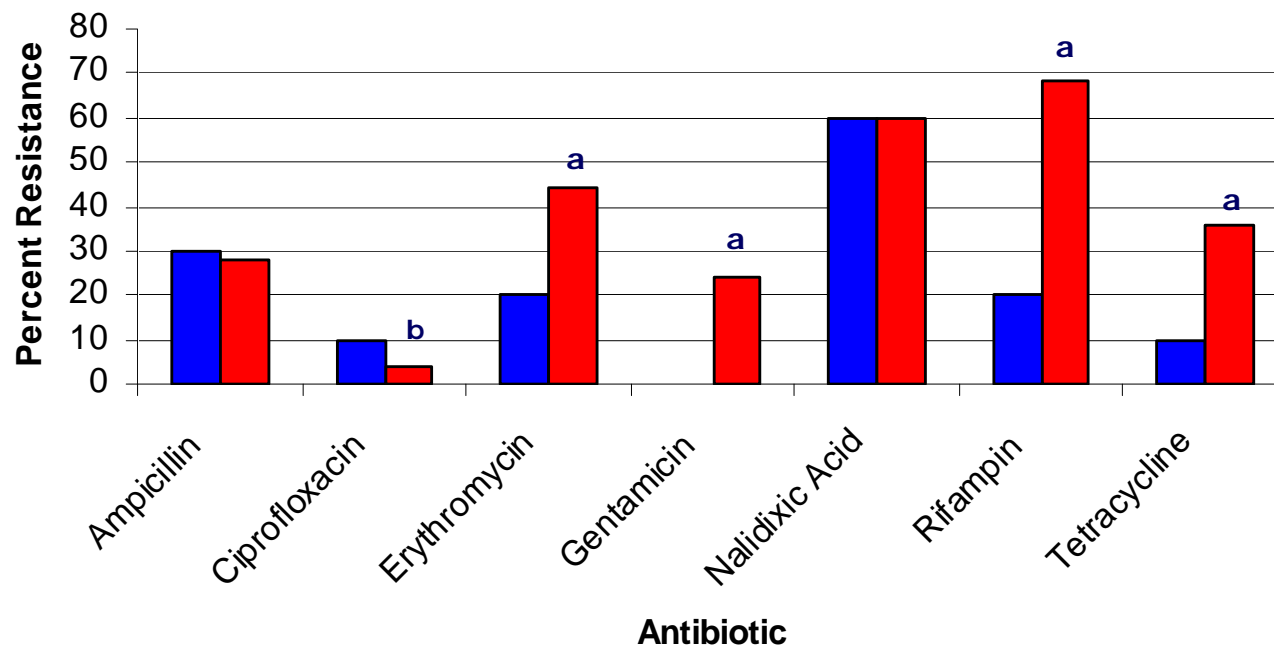
Non A.C. Buildings

<u>Building</u>	<u># of Tests</u>	<u>Mean</u>	<u>Std. Error</u>
Martin	2	684.500	59.500
Stout	2	396.000	9.000
Case	2	460.500	37.500

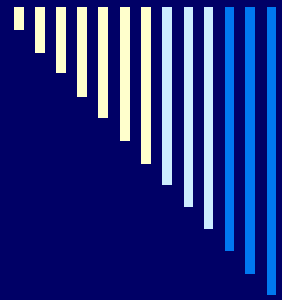
More stats.



Percent Resistant Bacteria to Antibiotics

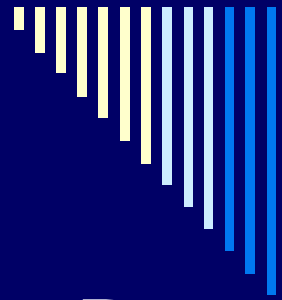


Statistical difference of $p < 0.001$ is represented by a, and $p < 0.05$ is represented by b.



Citations

- Reference scientists during your talk
- Borrowed images must be referenced



- **Proturans are from Devonian or Carboniferous**

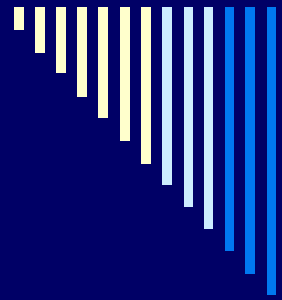


Source: <http://tolweb.org>

- **Diplurans are also from Devonian or Carboniferous** (Heming, 2003)

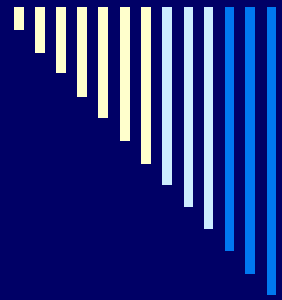


Source: <http://tolweb.org>



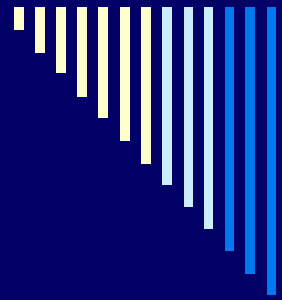
Summary and Conclusions

- Written for each experiment
- Take home message
 - Commonly left out
 - Big picture
 - Impression people leave with



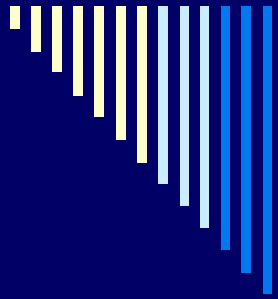
Presenter

- Organization
 - Mechanics
 - Delivery
 - Subject knowledge
-



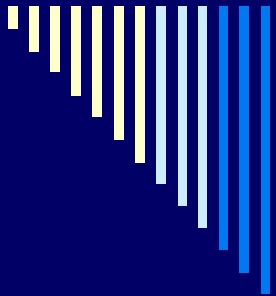
Organization

- Telling a story
 - Start
 - Finish
- Not the same for everything
- Logical progression
- Think about your audience



Mechanics

- Enhance your presentation
- Slides should be the same format throughout
 - Color
 - Font
 - Background



HIV

- RNA virus
- Envelope
- Reverse transcriptase

HIV

- RNA virus
- Envelope
- Reverse transcriptase

HIV

- RNA virus
- Envelope
- Reverse transcriptase

HIV

- RNA VIRUS
- ENVELOPE
- REVERSE TRANSCRIPTASE



Don't use too much text

Does HIV Cause AIDs?

- AIDS is caused by infection with a virus called human immunodeficiency virus (HIV)
- This virus is passed from one person to another through blood-to-blood and sexual contact."
- As an independent AIDS organization founded in 1986, AVERT has taken a keen interest in the ongoing debate about what causes the condition.
- By far the most significant scientist to question the HIV/AIDS theory is Professor Peter Duesberg, a virologist at the University of California at Berkeley, who first wrote about this topic in 1987.

Logical and orderly bullets

What is a prion?

- Proteinaceous infectious particle
 - Believed to be causative agent of TSEs
 - Self-replicating protein
 - Pathogenic form is resistant to enzyme degradation and heating
- Can induce abnormal folding of normal cellular prion proteins in the brain

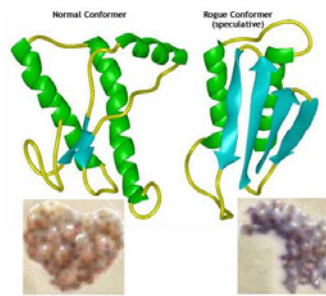
Diseases

1. Scrapie--sheep
2. Mad cow disease
3. Kuru--humans
4. Creutzfeldt-Jakob disease (CJD)--humans
5. Gerstmann-Straussler-Scheinker syndrome--humans
6. Fatal Familial Insomnia--humans
7. Chronic Wasting Disease--deer

Prion Structure

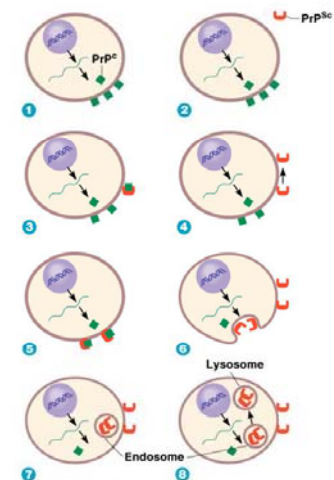
-Stanley Prusiner first discovered prions in the 1980s and won the Nobel Prize in 1997

-Mutant form differs from the normal protein only in the way it is folded

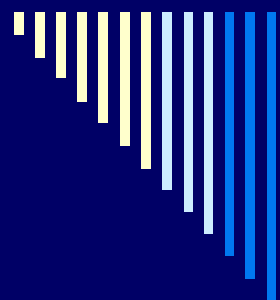


Mode of action

Causes large vacuoles in the brain--spongiform encephalopathy

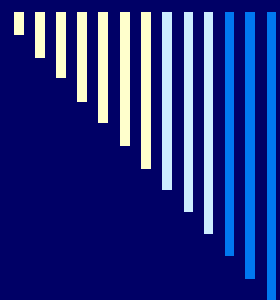


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Typos

- Use spell check
- Reread things
- Have someone else proofread it



Delivery

□ Voice

- Volume
- Pronunciation
- Word choice
- “Uhms”

□ Eye Contact

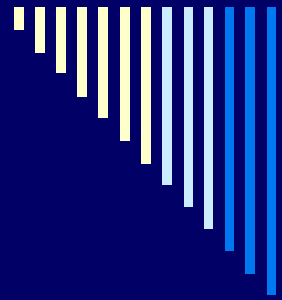
- Little reading
- Engage the audience



Delivery

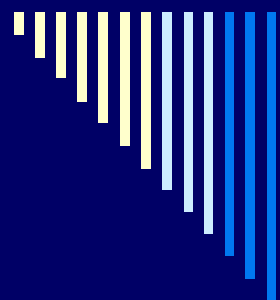
- Dress/appearance
 - Professional dress
 - Hair should be neat
 - Stand up straight
 - Smile
 - Know your audience





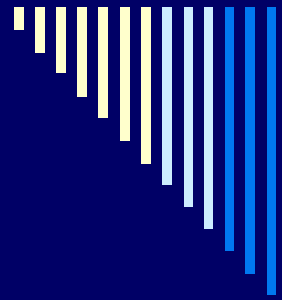
Delivery

- Use of pointer
 - Hold with 2 hands
 - Keep arm against body
 - Control the pointer
 - Needs to be with purpose



Watch the Weird Habits

- Don't lean on the podium
- Don't play with the change in your pocket
- Don't put your hands in your pockets
- Don't pick at your face, beard, or hair



Subject Knowledge

- Way that you answer questions
- You should be the expert
- Be confident
- Don't make up answers
- Try to anticipate
 - Think up questions
 - Ask a friend to question you

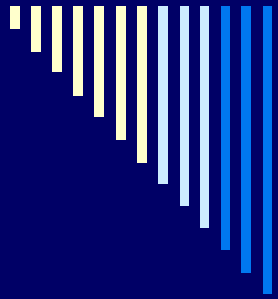


Another Thing to Consider

□ Time

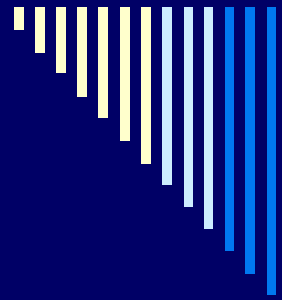
- Need to stay within the time constraints
- Shows a lack of respect and preparation if you're too long or too short
- Leave time for questions

□ PRACTICE



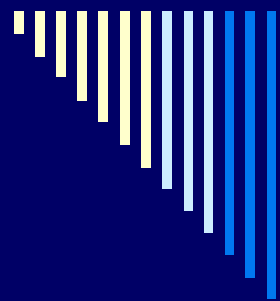
Why you should practice

- Know how long your talk is
 - Makes you more comfortable
 - Allows you to engage the audience more
 - Will appear more confident
 - Helps you to identify problem areas
-



How you should practice

- Practice just like you'd present
 - Don't wait until the last minute to prepare
 - Practice with an audience
-



Take Home Message

- Consider your audience
 - Have a goal
 - Let someone look at it beforehand
 - Practice
-