

January 26, 2012

ENGR110/210

Perspectives in Assistive Technology



David L. Jaffe, MS



Professor Drew Nelson

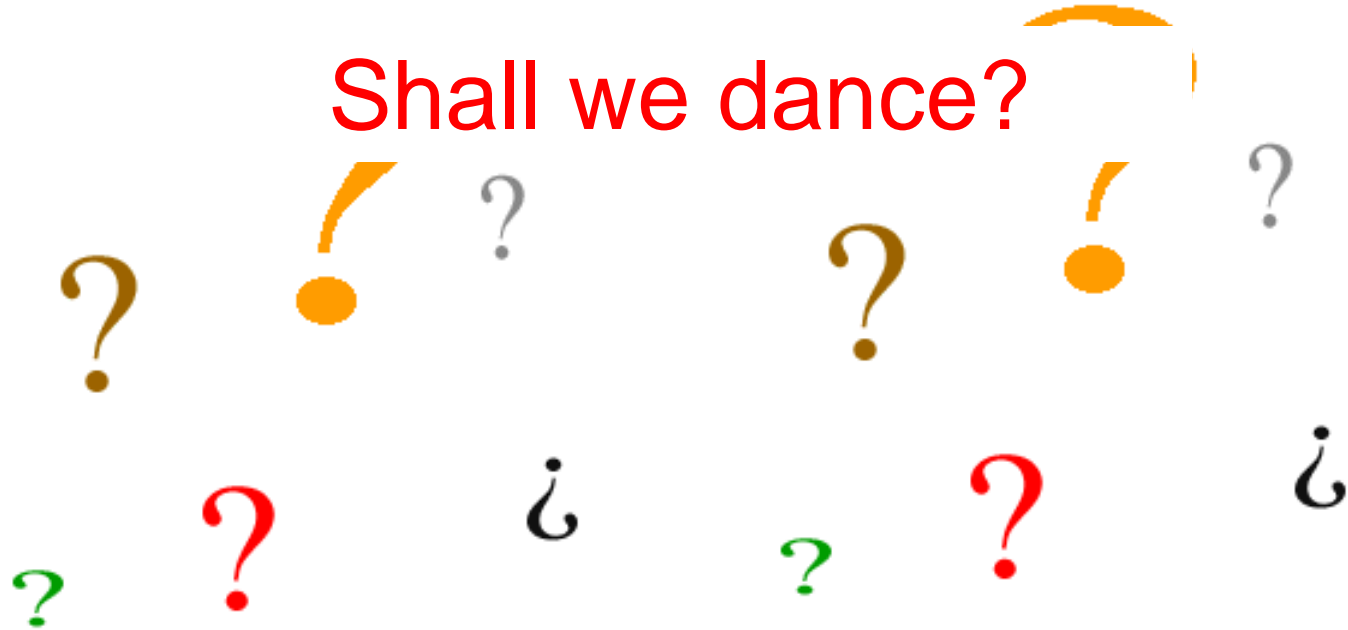


John Thiemer

Questions?



Shall we dance?



Projects

- Activities
 - Understanding the problem
 - Researching what already has been done
 - Brainstorming
 - Report progress to Dave
- Think about
 - Team name - now
 - Name of project – should be short
 - Name of device or software

Project Expenses

- Expenses
 - Project expenses are expected to be modest, no more than a few \$100, depending on the project.
 - Reimbursable items include supplies, parts, software, consulting services, shipping, tax directly relating to the project.
- Reimbursement Procedure
 - See [webpage](#)

Room 36

- Paperwork has been submitted for passes
- I will inform you when you can start to use the facility
- Sign up on Webshop (<http://webshop.stanford.edu>)
- Attend a 15 minute safety and lab orientation in Room 36 (available during posted times listed on Webshop)
- Hours (generally): Mon - Sat from 1 - 5pm & 7 - 11pm
- Email Marlo at marlod@stanford.edu with any questions

From Last Year



LAST YEAR IT WAS THE SNUGGIE

THIS YEAR IT'S THE "HUMAN BURRITO"

MLK

How do the teachings of Dr Martin Luther King Jr relate to people with disabilities?

“I have a dream that my four little children will one day live in a nation where they will not be judged by the **color of their skin** but by the **content of their character.**”



Congresswoman Gabrielle Giffords

- How much function will she recover?
- Will she be able to continue to serve in Congress?
- What assistive technology could she use?



Word of the Day

Anosognosia

uh-no-sog-NOH-zee-uh



Word of the Day

Anosognosia

Noun:

Unawareness of one's disease, disability, or defect.

The term ***anosognosia*** refers to brain cell changes that lead to a lack of self-awareness.

If we are unaware of a problem, there is no expectation that we need to act, take care of matters, or change anything. If there is no mismatch between how we expect to function and how we actually function, then there is no attempt to change, adjust, or fix anything. We assume that everything is fine. We do not try to compensate, such as writing a list of errands for the day, because we are unaware of any memory difficulties and we never used such a list anyways.

[Link](#)

Thought for the Day

“We're here to put a dent in the universe.”

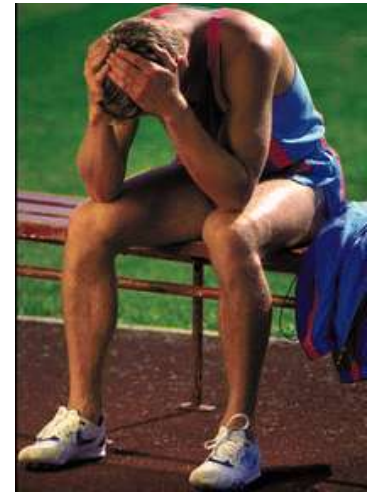


Failure



Failure

1. Is it always a negative thing?
2. Is it always something to avoid?
3. Are some failures better than others?
4. Is **failure** the opposite of **success**?



IF AT FIRST
YOU DON'T
SUCCEED,
TRY, TRY
AGAIN!

If at first you don't succeed,
don't take up skydiving!



“Failure is not an option”



Apollo XIII

failure is always an option



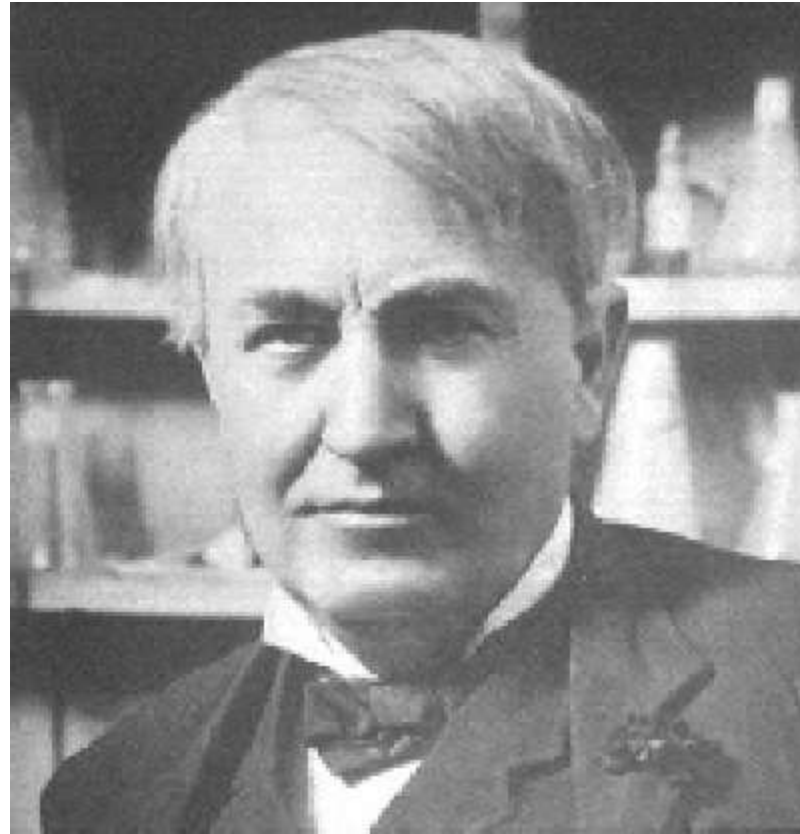
Adam Savage
Mythbusters

“Failure is not falling down,
it is not getting up again.”



Mary Pickford
Actress

“I have not failed. I've just found 10,000 ways that won't work.”



Thomas Alva Edison

**“If you want to increase your success rate,
double your failure rate.”**

You can be discouraged by failure, or you can learn from it

- so go ahead and make mistakes, make all you can -
- because, remember that's where **you'll find success –
on the far side of failure.**



Thomas J. Watson Sr.

**Fail Faster.
Succeed Sooner.**



Other Thoughts

Not many people are willing to give failure a second opportunity - they fail once and it's all over. If you're willing to **accept failure and learn from it**, if you're willing to consider failure as a blessing in disguise and bounce back, you've got the potential of harnessing one of the most powerful success forces.

Joseph Sugarman

Failure should be our teacher, not our undertaker. Failure is delay, not defeat. It is a **temporary** detour, not a dead end.

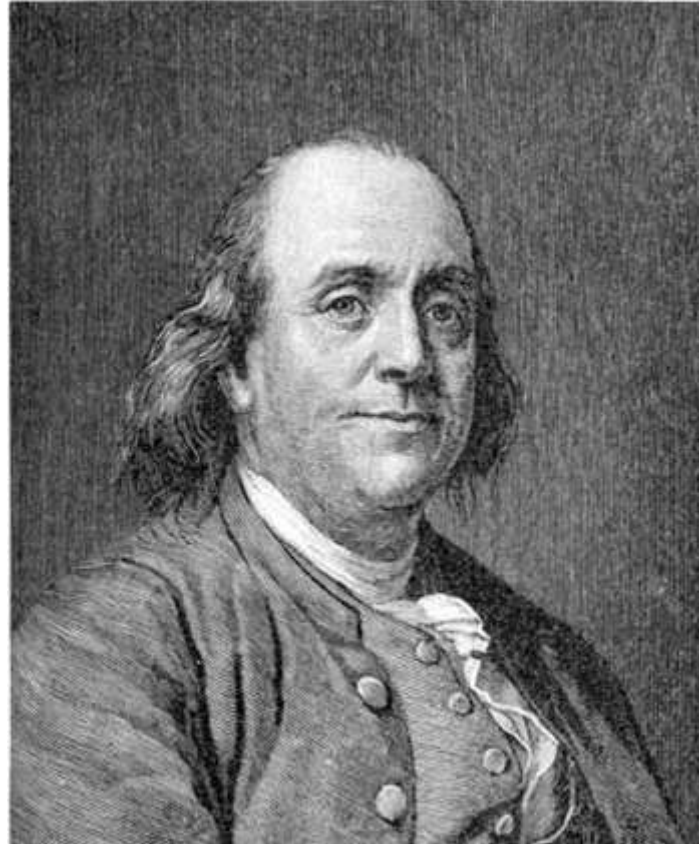
Denis Watley

From honest failure can come **valuable experience**.

William Arthur Ward



“Failure to prepare
is preparing to fail”



Ben Franklin
Founding Father

“Trying is the first step towards failure”



Homer Simpson
Cartoon Father

“Embrace Failure!”



Professor Dave Beach

“Failure is the highway to success”



John Keats
Poet

Messages

1. Prototype early and often – use sketches, crude models, cardboard-aided design (CAD)
2. Employ all your knowledge, senses, skills, and engineering intuition
3. Make good use of team members, coaches, resource people, and facilities
4. Balance planning and fabrication tasks – **manage your time, your most valuable resource**
5. Don't expect a linear path for your project from beginning to end
6. Prepare to make mistakes and experience failures – plan for them, understand them, learn from them
7. Don't get discouraged – **don't give up**

Discussion

1. Was Apollo XIII a success or failure?
2. Was the Concorde a success or failure?
3. What ultimately determines success / failure?
4. Can an effort be a partial success / failure?



Tuesday



Hilary Douglas

Haas Center for Public Service

*Assistant Director of Community, Engaged
Scholarship*

**Partnership and Prototypes: Learning with
the Community**

Today



Perspectives of Stanford Students with a Disability

Vivian T. Wong

Nicole B. Torcolini

Aubrie Lee



Short Break

