The 2300 final project

INFO/CS 2300:
Intermediate Web Design and
Programming

Click In!

Click In!

The most efficient way to display a web page showing 20 of 200 records from a database table is:

1. A JavaScript loop with an if statement
2. A PHP loop with an if statement
3. A SQL limit clause with a PHP/JS loop
4. Directly edit the HTML

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The final project

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1. Work in a group
2. Find a client
3. Build an "appropriately complex" website for your client
4. Examples

Your group

We chose the groups

Based on the survey in section last week

If you haven't received an email about your group, contact your section TAs
pass/fail – contact Xiying xw282

First group meeting is in Friday section

If group won't all be present, meet earlier
Group name
Discuss possible clients

Myers Briggs - disclaimers

First the disclaimers

- I'm not an expert
- Professionals do a better job than free online
- Results can vary
- There are better tools

Myers Briggs

Four dichotomies in a nutshell

- E – I : Extrovert - Introvert
- N – S : Intuitive – Sensing
- T – F : Thinking - Feeling
- J – P : Judging - Perceiving

Is one better than the other?

Right handed – Left handed

Myers Briggs

Type	General US Population %	2300 SP17
ENFJ	2.5	10.2
ENFP	8.1	6
ENTJ	1.8	6.9
ENTP	3.2	6.5
ESFJ	12.3	4.6
ESFP	8.5	3.7
ESTJ	8.7	5.1
ESTP	4.3	2.8
INFJ	1.5	7.9
INFP	4.4	5.6
INTJ	2.1	15.7
INTP	3.3	5.6
ISFJ	13.8	3.7
ISFP	8.8	2.8
ISTJ	11.6	11.6
ISTP	5.4	1.4

Type	General US population %	2300 SP17
E	49.3	45.8
I	50.7	54.2
N	26.7	64.4
S	73.3	35.6
T	40.2	55.6
F	59.8	44.4
J	54.1	65.7
P	45.9	34.3

Myers Briggs

Type	General US Population %	2300 SP17	2300 SP16	2300 SP15
ENFJ	2.5	10.2	4	4.9
ENFP	8.1	6	11.3	2.5
ENTJ	1.8	6.9	8.7	4.9
ENTP	3.2	6.5	8	6.2
ESFJ	12.3	4.6	6.7	8.6
ESFP	8.5	3.7	2	1.2
ESTJ	8.7	5.1	8	8.6
ESTP	4.3	2.8	3.3	2.5
INFJ	1.5	7.9	6	6.2
INFP	4.4	5.6	5.3	7.4
INTJ	2.1	15.7	12.7	28.4
INTP	3.3	5.6	8	8.6
ISFJ	13.8	3.7	3.3	7.4
ISFP	8.8	2.8	4	1.2
ISTJ	11.6	11.6	7.3	12.3
ISTP	5.4	1.4	1.3	1.2

Type	General US population %	2300 SP17	2300 SP16	2300 SP15
E	49.3	45.8	51.7	35.2
I	50.7	54.2	48.3	64.8
N	26.7	64.4	63.6	61.5
S	73.3	35.6	36.4	38.5
T	40.2	55.6	57	64.8
F	59.8	44.4	43	35.2
J	54.1	65.7	57	72.5
P	45.9	34.3	43	27.5

Myers Briggs

Type	General US Population %	2300 SP17	2300 SP16	2300 SP15	MBA class
ENFJ	2.5	10.2	4	4.9	20
ENFP	8.1	6	11.3	2.5	8.6
ENTJ	1.8	6.9	8.7	4.9	14.3
ENTP	3.2	6.5	8	6.2	5.7
ESFJ	12.3	4.6	6.7	8.6	0
ESFP	8.5	3.7	2	1.2	0
ESTJ	8.7	5.1	8	8.6	5.7
ESTP	4.3	2.8	3.3	2.5	0
INFJ	1.5	7.9	6	6.2	5.7
INFP	4.4	5.6	5.3	7.4	0
INTJ	2.1	15.7	12.7	28.4	8.6
INTP	3.3	5.6	8	8.6	8.6
ISFJ	13.8	3.7	3.3	7.4	8.6
ISFP	8.8	2.8	4	1.2	0
ISTJ	11.6	11.6	7.3	12.3	14.3
ISTP	5.4	1.4	1.3	1.2	0

Type	General US population %	2300 SP17	2300 SP16	2300 SP15	MBA class
E	49.3	45.8	51.7	35.2	53.5
I	50.7	54.2	48.3	64.8	46.5
N	26.7	64.4	63.6	61.5	69.8
S	73.3	35.6	36.4	38.5	30.2
T	40.2	55.6	57	64.8	60.5
F	59.8	44.4	43	35.2	39.5
J	54.1	65.7	57	72.5	79.1
P	45.9	34.3	43	27.5	20.9

Introverts - Extroverts

Quiet – Susan Cain

Caring for your Introvert

http://www.theatlantic.com/magazine/archive/2003/03/caring-for-your-introvert/302696/
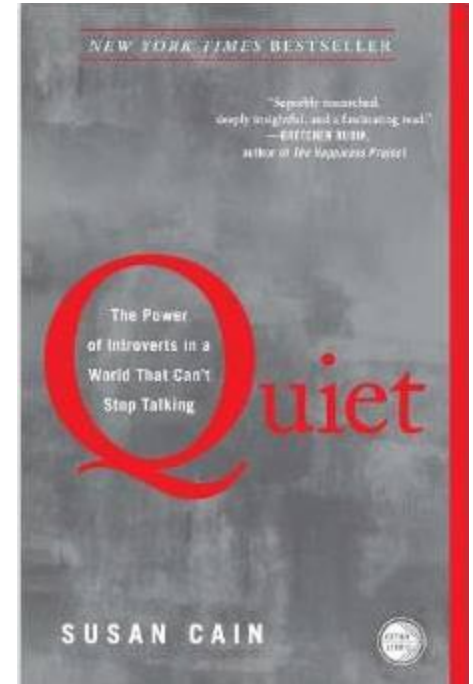
Stack Overflow – Private offices

http://blog.stackoverflow.com/2015/01/why-we-still-believe-in-private-offices/

Sensing - iNtuition

Sensing – Physical reality. What is actual, present, current and real. I notice facts. Practical.

N intuition – impressions and patterns. Tend to think things through before trying them. Future oriented. I like symbols and abstract theories.

Thinking - Feeling

Rules and policies vs people and circumstances

Business empathy

Other differences

- Work habits
- Culture
- Ability
- Other academics
- Non-academics

So what do we do to mitigate problems?

Working with others - contact

Create shared expectations
   Who will do what and when?

How can you be contacted?
   email? text? Facebook? Slack?

How soon can a teammate expect a response?
   hours? a day?

Working with others - deadlines

Decide together who is doing what

Create task deadlines – including non-coding tasks

Be careful about assigning to others

Take your tasks and deadlines seriously

Notify your group as soon as you recognize you won't meet your task deadline

Explain how you will make up for it

Shared Task Management

One option: Trello – https://trello.com

- Free accounts

- Easy to get started

- Easy to create and manage tasks

- Possible boards

  - Incoming / Idea / Maybe

  - To Do

  - In Progress

  - For Review

  - Complete

Team Communication

One option: Slack – https://slack.com

- Free accounts

- Easy to get started

- Set up a #channel for each topic

- Possible channels
  - General – everybody – Don't use if it doesn't pertain to everybody
  - Design
  - Client requirements

- If you can identify a topic that some but not all need to communicate about, create a channel

Team Scheduling

Fastest – All sit together and review calendars together.

Remotely: consider Doodle - http://doodle.com

- Set up a poll with times that work for you
- Send the poll link to teammates
- Settings - Yes-No-Ifneedbe poll

What if my teammate falls short?

Measure objectively against your task schedule

Talk with the teammate - sooner rather than later - much can be cleared up with a simple conversation. Be specific.

Ask yourself if your expectations are part of the problem

Ask for help from course staff

Be a communicator

Respond to your teammates

Proactively let others know status of your contributions

Embrace differences

When you or someone else feels like the odd one out….

It might also be true that the odd one out brings something otherwise missing

Individual grades

Typically, each team member receives the same grade for the project

Each team member will submit an individual report on his/her particular contributions to the overall project.

Also, each member will evaluate the level of contribution of the other team members. Your final grade may differ from the group grade depending on these evaluations.

The final project

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Some general suggestions

- A Cornell student organization
- An Ithaca non-profit organization
- A local business
- A project for a Cornell department or program
- Pop Shop

Clients on Piazza

- A few possible clients will be published on Piazza. There will be a lottery for these immediately at end of break.

- We have not reviewed these

- "Reserve" clients on Piazza

- More specific instructions for reserving clients are on Piazza

Some restrictions

- Your client contact cannot be someone on your team. However, you can have team members who are part of the client organization.

- You can have a student client, but there needs to be some reasonable level of separation.

Some caveats

- Your client should be aware that at the end of the semester the project cannot continue to be hosted on the 2300 server, and that they will have to find a host that supports PHP/MySQL.

- You may need to help them with this and will need to migrate the site

What if…

"But my client really wanted a site…
* with only three pages!"
* with seven point font!"
* with no backend database!"

You will be graded primarily on meeting the criteria of the project. Discuss with your client how this can improve the site.

Can we…?

Redesign an already existing site?

Yes. But you'll be graded on the difference between your new site and the old one, and you must document the difference.

Can we…?

Upgrade a site I did for 1300?
  Yes, but see previous slide.

Update part of an existing site?
  This would be difficult to achieve an appropriate project scope

Can we…?

Use Joomla, SquareSpace, Drupal, WordPress, Wix etc?

No

But if your client wants to migrate your work to one of those after you are done, that's fine.

Successful client projects

- All group members meet in person with the client at least once, preferably twice, if at all possible

- Keep in touch with your client weekly

- Closure – deployment

Client Timing

This slide is the entire reason the Final Project is being introduced now and not after break.

It may take some time to identify a client and set up an initial meeting.

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"Appropriately complex"

- Either significant amount of content or significantly complex coding/interactivity
- Must use MySQL for some part of the site – ideally some connected tables
- Appropriate scale for the size of your group
- We have more weeks and more people than the P3 solo project

JavaScript

- We're encouraging JavaScript libraries for specific tasks (calendar, cookies etc.)
- No full frameworks
- Generally, if its for one task its probably OK. If the whole site is built around it, probably not.
- We have TAs designated to help decide.

Client updates

- For a site to be resilient, consider how the client will update content.

- This may require significant interactivity, PHP, AJAX etc.

Using a DB

What can you use a DB for an a site?

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Some previous projects

Benn Nadelman

http://www.btfnfineart.com/

Financial Risk Management Club

http://www.frmcc.org/

POKADOT

http://gopokadot.com/index.php

Belle Delivery

http://belledelivery.com/

Most functionality is behind the login