LXD – Learner Experience Design

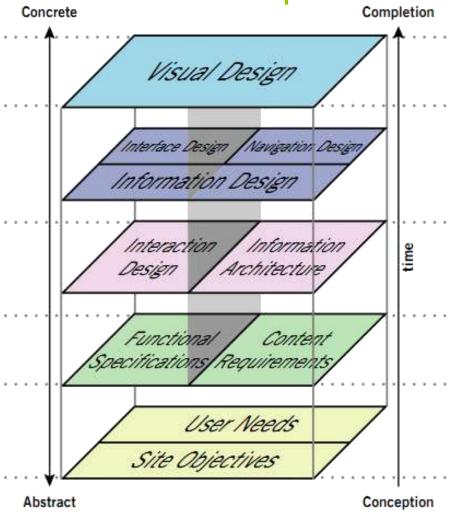
Creating Learner-focused Interfaces and Designs

What's LXD?

- Learner Experience Design
- Overlap between User Experience Design (UxD) and Instructional Design
- E-Learning / Web materials focus

Elements of User Experience

From
Jesse
James
Garrett:



http://www.jjg.net/elements/

Focus for today

- User focus
- Prototyping
- User Testing
- What do YOU want?

Question 1: How do you do analysis?

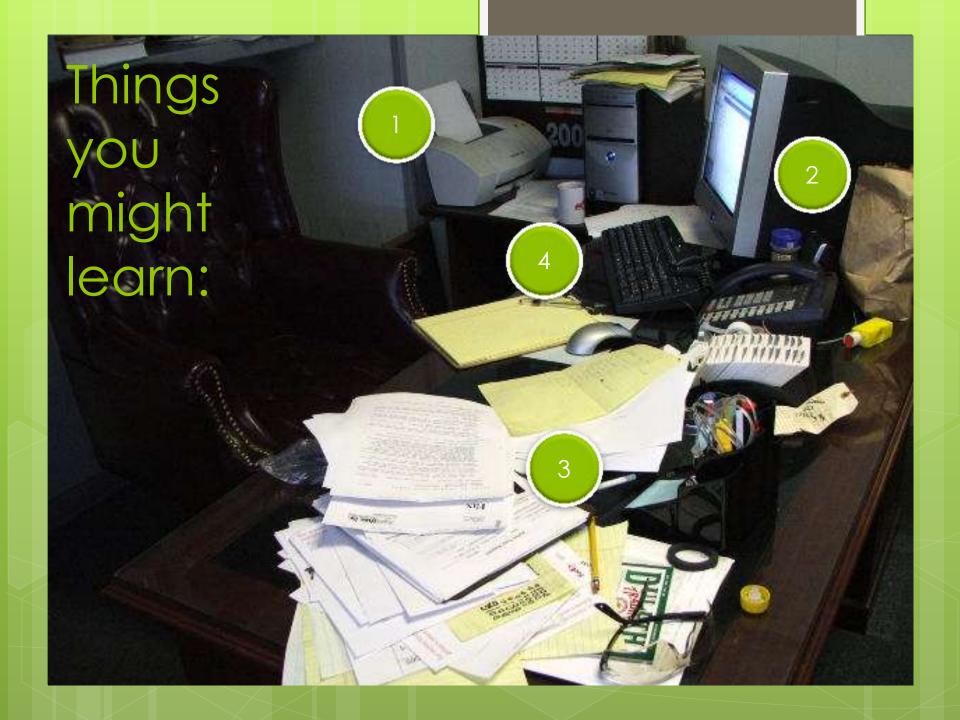
Analysis Methods

- Job Shadowing / Contextual Inquiry
- Persona Development

Job Shadowing / Contextual Inquiry

Follow them around:





Why is Context Important?

- Matching the real world
- People leave stuff out
- Memory Prompts
- Behavioral Triggers

Why is Context Important?

Matching the real world







Why is context important

People leave stuff out



Why is Context Important?

Memory Prompts

Pop Quiz:

Where's the best place to study for a test?

- a) Home
- b) Quiet Library
- c) Windowless classroom with noisy HVAC system
- d) Favorite Coffee Shop

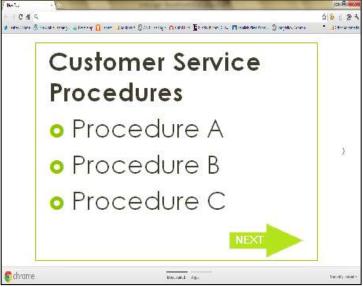
Why is Context Important?

Behavioral Triggers



High vs Low Context





Audience Analysis Results

Audience Demographics:

- o Age 18-64
- Gender 58% Male / 42% Female
- Prior Knowledge
 - Existing procedures for Business Analysis reporting and documentation
 - General Business Analysis Knowledge
 - Basic computer literacy / skills
- Education B.A. or above
- Experience Level from new hire to 15 yrs

Persona Development

Persona: Alice

Age: 32

Job Function: Business

Analyst



Description: Alice has been with the company for 3 years, and started as a tester in the quality assurance department.

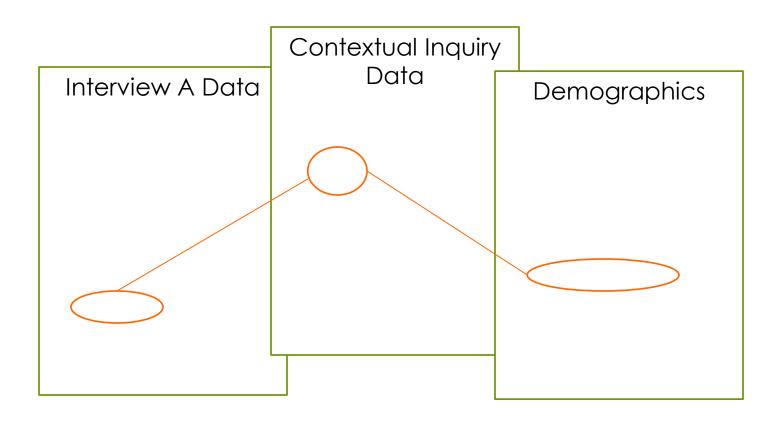
She spends her work time requesting and reviewing research reports, interviewing stakeholders and end users and creating software specs.

She is focused, goal-oriented within a strong leadership role. One of her concerns is maintaining quality across all output of programs.

She is connected via a T1 connection at work and cable modem at home. She also uses her smart phone extensively

She is most likely to be heard saying: "Can you be more specific?"

How you develop personas:



How you DON'T develop personas:

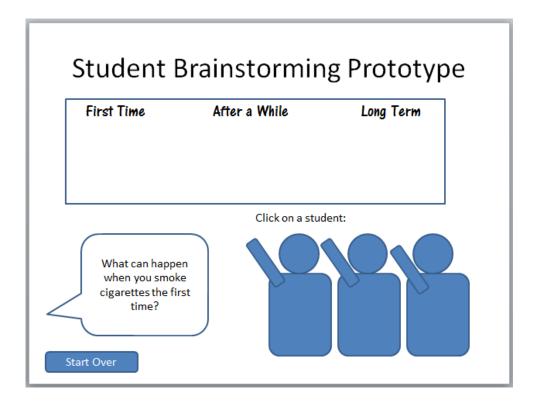


Next Step

• Prototyping!

"Storyboarding about interactivity is like dancing about architecture." *

Let's look at some prototype examples



Your task

 Create a prototype for Customer Service Training

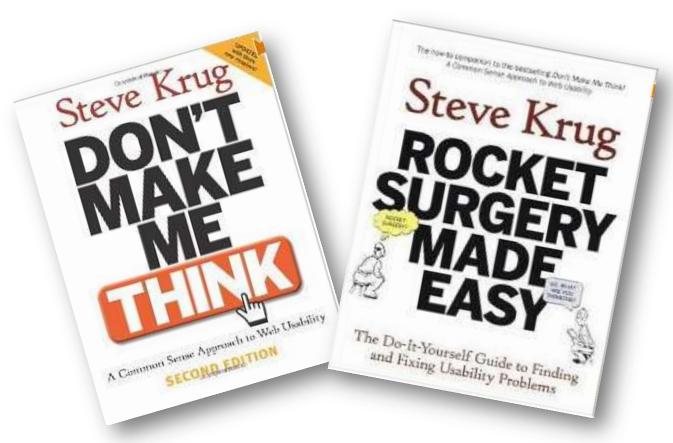
How many people know how to hyperlink in PowerPoint?

- Find yourself a partner who knows how.
- Follow along



http://www.flickr.com/photos/aluemoon/90804324/sizes/l/in/photostream/

Who does Usability Testing?



What Usability Testing ISN'T:

- UAT User Acceptance Testing
- Focus Groups
- Demos
- Sending the link out for feedback
- Quality Assurance Testing

Steps for User Testing

Create a test plan

Steps for User Testing

 Recruit users (5-6 testers / 1-1.5 hours each)

Steps for User Testing

- Write a script
 - Let you know why you are here
 - Testing the Interface not you
 - You can't do anything wrong
 - I probably won't help you because we want to see how people use the course when they are alone
 - Talk aloud while you go through it

Watch them use it



- Watch in Person
- Use a lab
- Remote Testing
- User testing software (Morae)

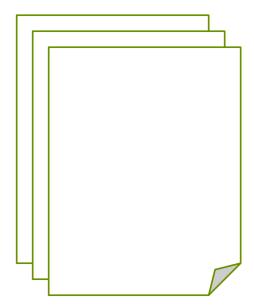
Document the Results

- User Testing Summary Report
- Design Recommendations
- Rinse and Repeat

Now it's your turn

- Grab a partner
- Who's the tester?
- Who's the facilitator?

Results?



Some Guidelines

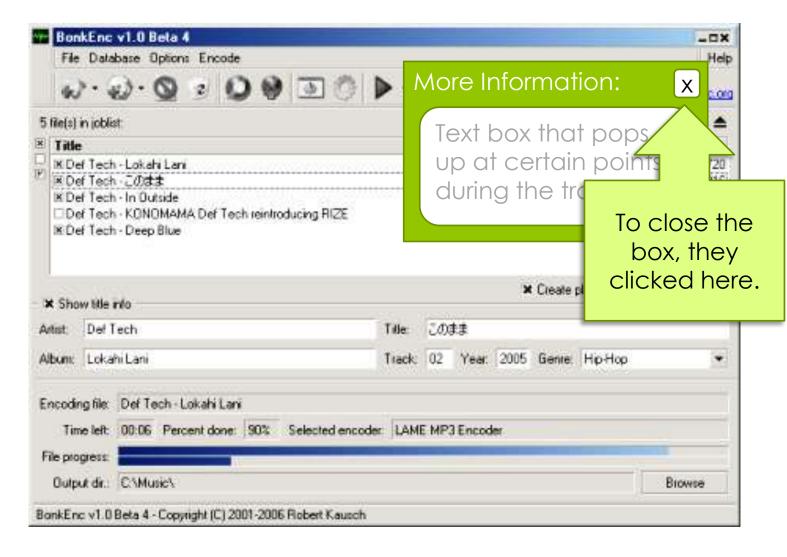
- o Fitt's Law
- Grouping and Chunking
- Top Left to Lower Right
- Instructions F-shaped reading
- Five Second Usability

Case 1: The Close Button

Situation: A medical device manufacturer had asked us to define a task-driven CBT for their latest I.V. Infusion device.

The Problem: Users were being slowed down by irritating information boxes.

Case 1: The Close Button

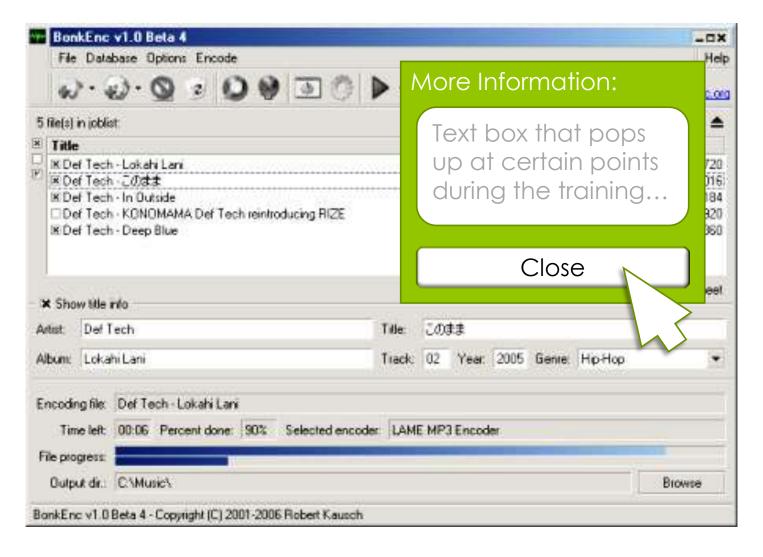


Case 1: The Close Button

Fitts' Law:

The time to acquire a target is a function of the distance to and size of the target

Case 1: The Close Button



Case 2: Invisible Text

Situation: A change management training exercise, where users were supposed to look at a selective treatment of data, information and knowledge.

The Problem: Users were not seeing some important explanatory text.

When managers consider the information the need to use to make decision, they frequently have to think about the raw data, the information and the knowledge or conclusions they can gleen from that information and data.



19



DATA ---

- The reports on customer substaction show 78% with product A and 39% satisfaction with product II.
- Product A has twice as many returns as product B.
- Product 6's sales have gore up 12%, while product A's sales have gone down 2.3% in quarter 4.
- The selections become we \$1366 for product A \$676 for product B

INCOMMENTACING

- Because Product A is an established product, and product B is a new product a disperity in satisfaction levels is not unexpected.
- Product A's sales are 8.
 Irrue, as high as Product 6's, A higher return rate is expected.
- Product file turners advertising hudget in barries pat the pilot leavings. Full leaving will require a

HONOWILEDGE

- Product B is still not developing as quickly as hoped, but the foreign markets are still expected to work well.
- Treatment of Product A has grown complicems within the company.

The most balanced viewpoint recognizes the plusses and minuses of a situation and thereby takes action to make real change happen. The end result is a more even handed approach that considers all the information before leaping to conclusion.





Instructions



Resources



Help



When managers consider the information the need to use to make decision, they frequently have to the about the raw data, the information and the knowledge or conclusions they can gleen from that formation and data.



DATE

INFORMATION C

KNOW EDGE

- The reports on costomer substaction show 78% with the A wort 39%
 satisfaction warm
- Product A sales have gone up PK, while produ A's sale have gone do 2 MC Auster 8
- Backupe Product A is an established product, and product B is a new product experity in satisfaction core. A not unexpected.
- Pocuci A's seles are 8 fee as high in Product life, A higher return rate in expected.
- Product it is still not developing as quickly as hoped, but the foreign merkets are still expected to work well.
- Teastment of Product A has grown complicant within the company.



contracting budget in being on the paint bunch. That parties will return a

The most 's a cut would recognize the pluses and minuses of a situation and thereby to be a situation and the information before leaping to conclusion.





Instructions



Resources



Help



When managers consider the information the need to use to make decision, they frequently have to think about the raw data, the information and the knowledge or conclusions they can given from that formation and data.



DATE

INFORMATION -

KNOWLEDGE

 The reports on costomer extists from chow 78% with product want 39% saliciaction with product B.

many returns as product 8.

gone up to while product A's sales he up gone down 0.00 when it

The security of the party of

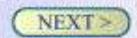
 Backupe Product A is an existinshed product, and product B is a new product a disparity in callefaction levels in not unexpected.

Product A's sales are 8 times as high in Product If's, A higher return rate is expected.

Process the corner softenieng business in beans on the pitch borner. Felt borners will response as Product it is allified developing as quickly as hoped, but the foreign merkets are still expected to work well.

Treatment of Product A has grown complicant within the company

The most balanced viewpoint recognizes the plusses and minuses of a situation and thereby takes action to make real change happen. The end result is a more even handed approach that considers all the information before leaping to conclusion.





Instructions



Resources



Help



When managers consider the information the need to use to make decision, they frequently have to think about the new data, the information and the knowledge or conclusions they can gleen from that information and data.







Sometimes it's possible to focus too heavily on the negatives, and not spend enough time. seeing a complete picture of the situation. This does not agual an accurate and balanced picture of the situation. This should be revisited.

DATA:

INVESTIGATION.

SMIDWILLEBBE

show 78% with product A and 38% torisfaction with product fil-

en product G

white product A's sales have gone down. 2.7% in quarter d.

podudA/807KN/ramber#

- Bacawara Produkt & in an anisotration prophet, and product 6 is a new prophet, a Miscourty its earliefactions blooms as east

Product A's sales are 8 times as high as roduct 8's: A higher relum rais is expected.

Product Product will advertising house be broad by the prior layner. Furthered will proper a substantive replied to their

- Printing R is still hit meaninging on existing an inspect that this foreign. PROFESSION AND THE EXCEPTION OF MICH.

- Treatment of Product A has grown complanted within the company.



Instructions



Resources





When managers consider the information the need to use to make decision, they frequently have to their about the new data the information and the knowledge or conclusions they can given born that information and data.







times its a e to focur: ure of the bits a is comple e of the si This is audi pictr

eavily on the negatives, and not spend enough time tion. This does not equal an accurate and balanced e revisited.

in product th procu

effett product A's sales have gove down. 2.3% in quarter it.

The second second section

BUFCHRMATICIN

because Protect A is in intelligen. product: wild product & it wreaw product; it thorough to belief within level of the

Product A's sales are 8 times as high as Yorks/187s. A Vigher rejurnable is expected.

Charles IVA parient advertising Value of St. Sanigan en poor layers. Falk levels with mesons a legislaw total framer Section).

WWWW.EDGE

Product in it still not developing an contribly as hispanic, but this finalian markets are 200 expected to exam-

- Deadment of Product A has grown complaint within the company.



Instructions (



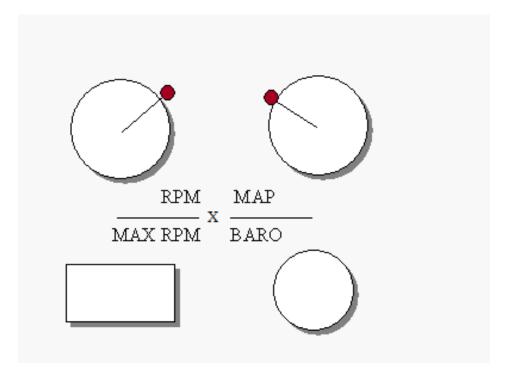
Resources 0





Situation: A technical simulation to learn about fuel injection.

The Problem: Users were using, but not learning.



Question Worksheet:

Lebel de նարատ օքան շալատան ։
2 Adjustabes curage as gest allong as jecon pube width (für example 93 acres)։ In the RPM (Englace Speed) bright ar law?
b ახი MAP (Engrand Vacuum) ხფხი I law?
b ახeMAP(Σαgiac Vacuusa) bagbaila w?

(Very Informal) Results:

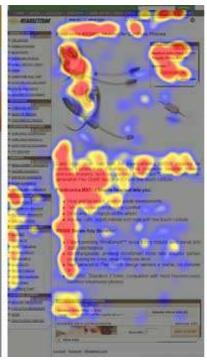
On a short quiz with 4 questions (8 participants):

User scores without worksheet- 0,0,2,4

User scores with worksheet- 2,4,4,4

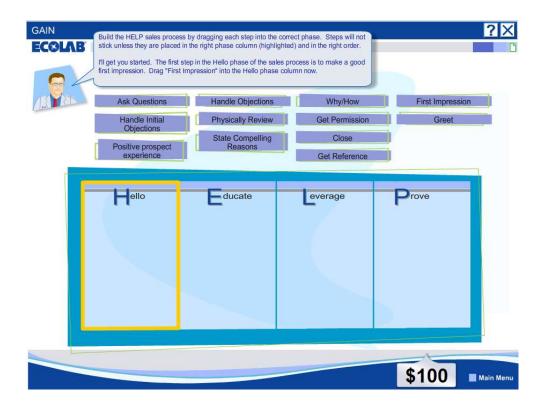
F-shaped Reading Pattern

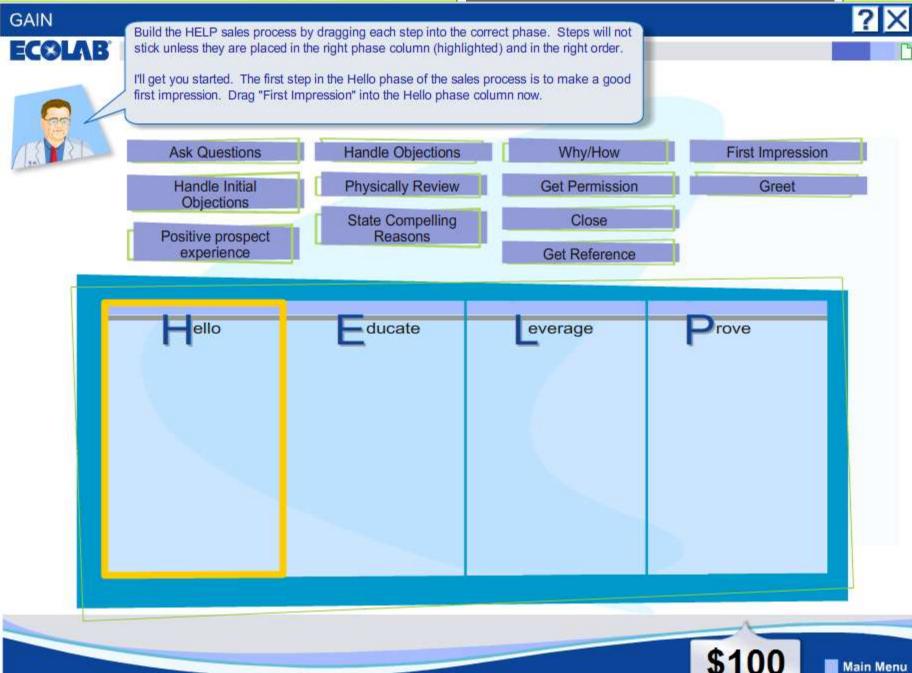






A word about instructions:

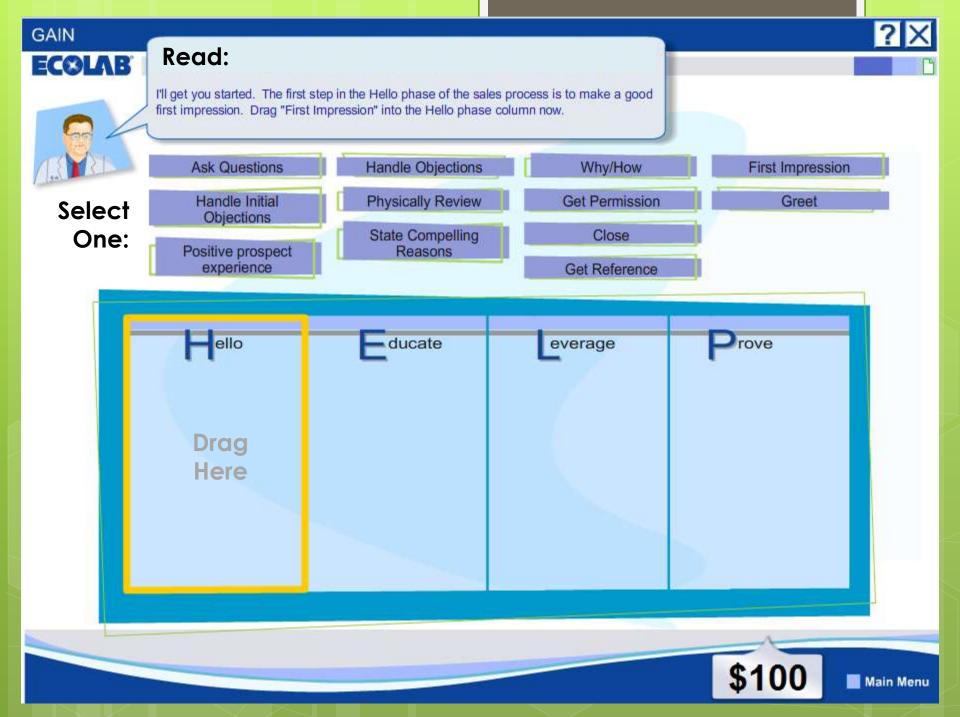


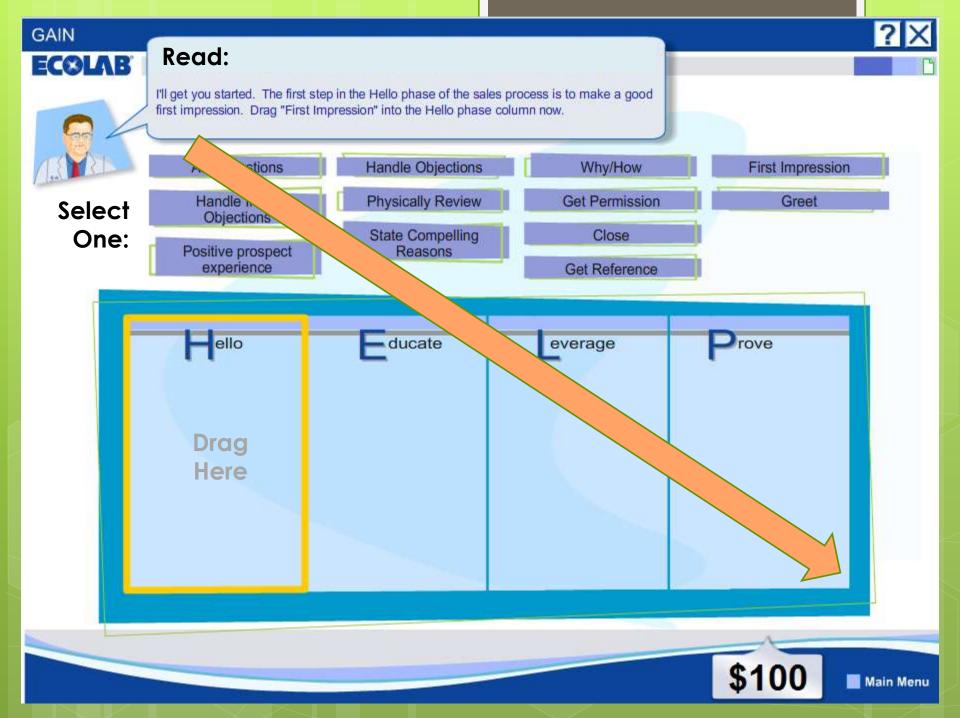


What are the purposes for screen instructions?

- Set up the situation / scenario / learning context
- Tell the learner what they are going to do on the screen
- Help them figure out what to do next

What is subitizing?





Questions?

- Thanks for coming
- Book Signing Next! ASTD Bookstore
- Contact:
 - julie@usablelearning.com
 - http://usablelearning.com
 - Twitter: usablelearning

