

Semantic Interaction Design

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What is the first thing you do when you start to create/define/specify an Interaction Design?

Don't do that!

There is a better way to start...

What



Chapter 1

Semantic IxD is a <u>proven</u> (cognitive science based) **scalable** UX design method that <u>ensures</u> maximum usability is achieved **10X** more effectively & efficiently than current UX practice today.

Origin of Semantic Interaction Design (IxD) theory goes back decades!

Human Factors Cognitive Ergonomics:

- Task action grammar/Complexity models
- Reisner (1979)
- Spence and Apperley (1984)

Cognitive Science:

- Stages of Action (Norman 2015)
- Design by Levels (Foley 1995)
- Activity Theory (Nardi 1996)
- Consistency (Shneiderman 1988)

Computer Science

• Objected-Oriented UI (Collins 1995)

Science starts here



Complete System

INTERACTION DESIGN FOUNDATION

2020

DANIEL ROSENBERG

UX MAGIC

Learn about an innovative IxD method

Deliver designs faster/smarter

- Fewer iterations
- Minimize feature creep rework
- Fewer stakeholder meetings
- Science based tradeoff discussions (not opinions, not trial & error)

10X Efficiency (your labor)

Deliver optimal UX designs

- Minimum number of screens
- Shortest flows
- Lowest cognitive load possible
- Ready to scale for next version

10X Effectiveness (design quality)

Can you support the 10X claim?





Case studies in the book

Over a 100X Improvement!

Before - Can you support this **10x** claim?

📈 Manager					
File Workup Assessments Manage Tx View Pharma	cy System Admin Window Applications Help				
Image: Comparison Image: History Flow Sheet Vital Signs Example	😥 陀 🖵 🖬 💲 🗹 🔃 🏭 Toxicities Rr Phys-Orders Notes Billing Ev Drug Admin Prov Appr Reports				
📲 Open Patient					
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Date of Birth 00/00/0000 +/- 5 Years	General Patient IDs Temporary Address Contacts	Demographics Providers Referra	als Photograph Preferences		
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Institution (All)	Last Name testaria	Address 1234 Main Stree	et		
Patient	First Name patient				
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	Date of Death 00/00/0000 mm/dd/yyyy	Colon resection		Jnknown	
	Cause of Death	Colposcopy			
	Clinical Trial Patient Error / Test Patient	Cystectomy Heart by-page			
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		Hysterectomy		Jnknown	
		Liver biopsy		Jnknown	
		Mastectomy		Jnknown 💌 📎	
		Melanoma removal		Jnknown 💌 🔽 📎 🚽	
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After - Can you support this claim?



When



Chapter 1

At the heart of the User Centered Design step.

Focus – Only Interaction Design step (not full UCD life cycle)



- Other phases are important too
- Necessary but not sufficient

Why



Because **Design Darwinism** does not work!

Current design methods don't scale to complex systems, are inefficient and often lead to product failure at significant expense because

Real quality is not achieved by eliminating defects - occurs through design

*Design Darwinism = Believing A/B testing is a legitimate form of iteration



Leverage 2 cognitive science principles at 4 modular levels of Interaction Design



Cognitive Science Foundation of Semantic Interaction Design

- 1. Language is the basis of conscious thought
- 2. Language grammar correlates with cognitive complexity
 - Cognitive load in Interaction Design can be measured (lab)



Cognitive load for Interaction Design can be predicted in advance

Simple Graphical User Interface (GUI) Semantic **Example (Interaction Design Grammar)**



Grammar

Consistency vs. Cognitive Load

ACTIONS

		Cut	Remove	Сору	Duplicate	Paste	Stamp	Print	Publish
	Character	Х		X		Х			Х
CTS	Word		Х		Х		Х	Х	
Ш М	Paragraph		Х	Х		Х		Х	
ō	Page		Х		Х		Х		Х
	Document	Х		X		Х			Х

Sparse Object-Action Grammar

Sparse is BAD!

Consistency vs. Cognitive Load

			ACTIONS		
		Cut	Сору	Paste	Print
	Character	Х	Х	Х	Х
CTS	Word	Х	Х	Х	Х
BJE	Paragraph	Х	Х	Х	Х
ō	Page	Х	Х	Х	Х
	Document	Х	Х	Х	Х

Dense Object-Action Grammar

Consistency vs. Cognitive Load Calculation



Functionality

Sparse matrix: Load on human memory = Actions x Objects

Dense matrix: Load on human memory = Actions + Objects

	Actions								
		Cut	Remove	Сору	Duplicate	Paste	Stamp	Print	Publish
	Character	Х		Х		Х			Х
ects	Word		Х		Х		Х	Х	
obj	Paragraph		Х	Х		Х		Х	
	Page		Х		Х		Х		Х
	Document	Х		Х		Х			Х



Real Conceptual Model 10x deconstruction in practice!







	Create	Update	Void	Accept	Reject	Delegate	Approve	Refer	Transfer	Pin
Patient	Х	Х		Х	Х			Х	Х	
Medical record	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Treatment plan	Х	Х	Х	Х	Х	Х	Х		Х	
Appointment	Х	Х	Х			Х		Х		Х
Task	Х	Х	Х	Х	Х	Х	Х	Х		Х
Messages	Х	Х	Х			Х		Х	Х	Х
Note	Х	Х				Х		Х	Х	Х
Care team	Х	Х				Х	Х	Х	Х	

Only 10 objects and 10 actions can describe an entire EMR solution

How (practice)



Chapters 4–7

Apply Semantic Interaction Design across all 4 modular **framework** levels



Layer 1- Grammar



Where do Objects and Actions come from?

Linguistic structure can be mapped to experience design as follows:

Language construct	UX construct	Example
Noun	Object	Box
Verb	Action	Сору
Adjective	Attribute	Color (Yellow)

Process



Conversion of User Stories into conceptual model

Each story expresses a different user goal and can be easily analyzed to identify the nouns, verbs and adjectives the sentence contains.

"As a parent I want to find a friendly dog that will help teach my children to be responsible."

"As an elderly widow living alone I want to adopt a dog for my protection"

"As a runner I need an active dog that can fit into my exercise routine"

"As a happy owner I want to share photos of my new dog with the MatchDog community"

"As a pet lover I would like to donate so MatchDog can grow its service and help others"

The sentences above are color coded as follows:

Noun > Object Verb > Action Adjective > Attribute

Do the math! – 7X difference in cognitive load

Objects	Donate	Adopt	Join	Schedule	Share	Surrender
Animal	Х	Х		Х	Х	Х
Money	Х		Х			Х
Services	Х			Х		Х
Info/Ed		Х			Х	
People		Х		Х	Х	Х
Events		Х				
Calendar				Х	Х	Х
Advocacy						
Community				Х		
Organization		Х		Х	Х	
Shop						

Objects	Donate	Adopt	Schedule	Share	Learn
Dog	Х	Х	Х	Х	Х
Owner	Х	Х	Х	Х	Х
Organization	Х		Х	Х	Х
Money	Х		Х		

Table 5: Compact Object-Action matrix

Table 4: A first-draft Object-Action matrix (too sparse and redundant)

Table 4 calculation: **Objects x Actions** = 66 Table 5 calculation: **Objects + Actions** = 9 9 divided by 66 is approximately 14% or **7.3X improvement**

Figure out the Object Attributes!

Animal	Money	People	Services	Event
Species	Donation	Employee	Medical	type
Age	Sponsorship	Customer	Adoption	time
Breed	Volunteer	Board M.	Membership	place
Health	Vehicle	Vet	Volunteer	cost
Personality		Volunteer		duration
Exercise				attendees
Kids friendly				
Other pets				

Attributes don't add significant cognitive load! They rely on **recognition** not **recall** (the two types of human memory)

Prioritization!

Task = Object + Action(s) combination

Object-Actions pairs don't have the same level of importance

- To the user
- To the business model

Make Common Tasks Easily Accessible

- Two dimensions to evaluate "common":
 - Frequency (how often)
 - Volume (how many)

	By Many	By Few
Frequent	Most users will do task often	Few users do task, but those who do do it often
Rare	Most users do task, but only rarely	Few users do task, and only rarely
\$ Financial	Micro revenue generation (e.g. advertising)	Macro revenue generation (e.g. paid subscription)

Use this knowledge immediately



- 1. Alternative Heuristic evaluation method
 - assess cognitive load
 - find mismatches between user mental model and UX
- 2. UX Design method of new projects
 - Minimize screen count and complexity (increase quality)
 - Prioritize tasks before creating mocks (save time)
- 3. UX Evolution of existing products
 - Add features as new attributes of existing objects
 - Minimizes complexity
 - Slows growth of cognitive load (due to feature creep)

Layer 2 - Visualization



Visualization Deconstruction



All pattern levels are optimized to present and manipulate actions, objects and attributes in different ways

Building a Calendar Page UX



Visualization Deconstruction



Component Patterns

Name	Attribute	Action	Object	Logic/Behavior
Label	x	x	x	The name attribute of anything, in hypertext a navigate action
Radio button	x			Selection of on state within a set of many attributes
Toggle Button	х			On/off state for only one attribute
Checkbox	x			One of many states of given attribute
Drop list	х			A collection of attribute values
Combo box	x	х		A collection of attribute values with the action to add a new attribute in place
Value Slider	x			Point and click way to choose the numeric value of an attribute
Button		х		Click to execute action it represents
Hypertext link		х		Special case of button with only action to be view/navigate
lcon	x	х		Mostly for actions, some can show visual state
Field (value)	х			Type a value which represents an attribute (typically on of many) for a parent object
Text entry box	X		x	Mostly for annotation which is an attribute
Menu	x	Х		Mostly for actions but sometimes change the state of an attribute
Tabs	x		X	Used for granular unit of division for functionality

Legend: X (Primary) x (Secondary)

Use today:

the optimal

component to

Don't use trial & error or intuition

express your attributes?

Are you choosing

Example – Menu as Actions versus Objects



G Д Messaging Notification PREMIUM Daniel Rosenberg UX Professor, Design Consultant, former Global UX Executive View profile Access My Premium ACCOUNT Settings & Privacy Premium subscription settings Language NEED HELP? Open Quick Help MANAGE Posts & Activity Job postings Company: rCDOUX Consulting Sign out

Menu of Actions related to profile

Menu of Jobs (Objects)

Bad Example


Visualization Deconstruction



Widget Patterns

Name	Attribute	Action	Object	Logic/Behavior
List			X	Table with one column (can be horizontal like a Carrousel or Cover flow)
Table	x		Х	Table itself or each row can be an object
Tree control			X	Represents hierarchy of Object
H-Grid				Combination of tree and table, so set attributes be shown as well
Master-detail	X		X	Combination of list of objects and its attributes or Attributes and sub-attributes
Form	x		X	Logically represents an object, fields and controls inside are attributes
Card	x		Х	Expanding (Detail)/Collapsing (Summary) element used for a series of object.
Chat box		x	Х	Conversation is an object as are the people you have it with
Filter panel	X	Х		Uses the action of turning on/off specific attributes to filter data
Shuttle contro	I		Х	Two list boxes side by side that allow the selection of objects
Picker	X			Visual palette for colors, fonts, shadow and other visual attributes
Wizard	x	Х		Context maybe one object, purposes is to set attributes and commit on final action
Property shee	t X			Container of attributes of given object type
Leader board	X		X	Gamification list of object (people or avatars) sorted in top to worst order
Media control		X		Stop, start, fast forward audio or video

Use today:

Are you choosing the optimal widget to express your objects?

Don't use trial & error or intuition!

Legend: X (Primary) | x (Secondary)

Card Control – Semantic error example



Cafe Badilico

ڕItalian. Cafe

Small plates, salads & sandwiches an intimate setting with 12 indoor seats plus patio seating.



Many attributes inside card

Non-grammatic Widgets

Time

- Feed
- Media controls (VCR)
- Timeline
- Breadcrumbs
- Search box

Space

- Zoom controls
- Pan
- Мар
- Search results

Container only

- Dialog box
- Toolbar
- Portlet (html iFrame)
- Card
- Page
- Screen

Visualization Deconstruction



Screen Archetype Patterns

Name	Attribute	Action	Object	Logic/Behavior	Use today:
Menu page		x	x	Object usage can have implicit or explicit selection, to display actions mostly a list	2
Catalog	x	x	х	Select item to purchase (put in cart)	Are you
Funnel	х	x	х	eCommerce "Shopping Cart" to pay and ship. As seen in tax preparation apps.	choosing the
Desktop	x	x	х	Select item to object to open/run	optimal
Portal	x		х	iFrames represent object, content within attributes	archetype to
Workflow	x	x	х	Multiple step process spanning a single object, actions and attributes embedded	express your
Social	x	x	x	Organized content over time, mostly attributes of people, people are the object	Interaction
Container organizer	x		х	Master-Master level for object, detail are content of object plus search and create	Design system?
Tool & Canvas	х	x	х	Objects in canvas, (could be simple box or full engineering CAD drawing)	Don't use trial &
Workspace	x	x	х	Combines editors, prop sheet and toolbars	error or intuition
Administration tool	x	x	х	Object on the left in hierarchy, props on right	
Dashboard	x		Х	Frames represent objects, content inside are attributes, filters in panels or toolbars	
Report	X		Х	Report is the parent object, content is attributes of same	
Calendar	Х	x	Х	Representation of time in a grid or linear layout (top to bottom or left to right)	

Legend: X (Primary) x (Secondary)

Archetype: Social (Feed and suggestions)



Feed Widget in the center

Visualization Deconstruction



Use today:

Are you consistently expressing the grammar across all your design decisions?

Medical Interaction Design Language examples

1. Behavior the Appointment Object inside different archetypes

2. Consistent use of the Void Action to remove errors

A day in the life of...

EMR Conceptual Model

	Create	Update	Void	Accept	Reject	Delegate	Approve	Refer	Transfer	Pin
Patient	Х	Х		Х	Х			Х	Х	
Medical record	Х	Х	Х	Х	Х	X	Х	Х	Х	Х
Treatment plan	X	Х	Х	x	Х	x	Х		Х	
Appointment	Х	Х	Х			Х		Х		Х
Task	Х	Х	Х	Х	Х	Х	Х	Х		Х
Messages	Х	Х	Х			Х		Х	Х	Х
Note	Х	Х				Х		Х	Х	Х
Care team	Х	Х				Х	Х	Х	Х	



Swimlane Archetype Pattern



Swimlane Archetype Pattern



Swimlane Archetype Pattern

Home Calendar Charts	🗸 Analytics Tools 🗸				⊡	Help 🗸	🦲 Adam Ellis 🗸
Today < SUN 27 Jan - SAT	02 Feb > Day Wo	ork Week <u>Week</u> Mo	onth				
My calendar 🗸 🔍 🗛	Ellis × Search schedules and loca	itions		Q.		+ N	lew appointment
Sun 27/01	Mon 28/01	Tue 29/01	Wed 30/01	Thu 31/01	Fri 01/02		Sat 02/02
11:30							
12:00							
12:30							
13:00							
13:30							
14:00							
14:30							
15:00			Same widget	O 15:00	Multi-Room-1 Halo Hospital	J 2 IE G	osephine Baker 6 Jul 1966 2 srs-lung 704) 290-4523
15:30			design	Josep	ohine Baker		Ionsultation Idam Ellis Multi-Room-1 Hiscuss clinical trial options falignant neoplasm of upper lobe, idat progetium of Upper lobe,
16:00			pattern for	26 Jul 1966 (704) 290-4 Malignant n	52 Female 523 eoplasm of upper lobe, rig	ght	
16:30			appointment	bronchus of Stage Unkn Attendees: /	lung, C34.11 own (T2,N1,M0) Adam Ellis		
17:00				Booked	Liscuss clinical trial optic	ins lit v	
17:30							
Show business hours							

Calendar Archetype Pattern

Home	CalendarCharts 🦴	- Analytics Tools 🗸					⊠ P	Help 🗸	· 🜔 Adam Ellis 🗸
Today	< SUN 27 Jan - SAT	D2 Feb Day Wo	ork Week Week Mon	th					
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	Sun 27/01	Mon 28/01	Tue 29/01	Wed 30/01	Thu 31	/01	Fri 01/02		Sat 02/02
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15:30							Consultation	- 3	Consultation Adam Ellis Multi-Room-1
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16:00						26 Jul 1966 (704) 290-45	52 Female		Innt properties of Line 1244 L1
						Malignant ne	oplasm of upper lobe, rig	ht	
16:30						Stage Unkno	wn (T2,N1,M0)		
				and notion -		Attendees: A Comments: I	dam Ellis Discuss clinical trial optio	ns	
17:00			LC	ical action n	nenu	Booked	Create messar		
17:20			CC	ntext assun	ne		Create task		
11.30			Δ.	nointmont	abject		Copy appointm	ent	
() Show	business hours		A	pointment	object		Cancel appoint	ment	

Calendar Archetype Pattern



Portal Archetype Pattern

Conceptual model

	Create	Update	Void	Accept	Reject	Delegate	Approve	Refer	Transfer	Pin
Patient	Х	Х		Х	Х			Х	Х	
Medical record	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Treatment plan	Х	Х	Х	Х	Х	Х	Х		Х	
Appointment	Х	Х	Х			Х		Х		Х
Task	Х	Х	Х	Х	Х	Х	Х	Х		Х
Messages	Х	Х	Х			Х		Х	Х	Х
Note	Х	Х				Х		Х	Х	Х
Care team	Х	Х				Х	Х	Х	Х	











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Ē	Imaging Rep	port	30 Jan 201	9	Imaging Repor	rt	ssiddesh ssiddesh						
	Survivorship	o care plan	30 Jan 201	9	Survivorship		Erna McDougall						
Ē	Breast_Trea	tment_Binder	30 Jan 201	9	DOCUMENT		Erna McDougall						
<pre>P</pre>	Survivorship	o care plan	30 Jan 201	9	Survivorship		Erna McDougall						
Þ	Breast_Guid	leline	30 Jan 201	9	GUIDELINE		Erna McDougall						
Ē.	breast_path	ology_report	30 Jan 201	9	Pathology Rep	ort	Erna McDougall						
Ē	breast_path	ology_slide_2	30 Jan 201	9	Pathology Slid	es	Erna McDougall						
Ð	breast_path	ology_slide_1	30 Jan 201	9	Pathology Slid	es	Erna McDougall						

Menu (list) Archetype Pattern

🚱 Erna	McDougall		26 Jul 1966 (52) Female 00IGRT_210	2	Intraductal carcinc Stage Unknown	oma in situ of unspecifie	ed breast			+ N	lew for Er	rna
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	02 Feb 2019	14:17	pattern									
Adam Ellis												
Test note num	ber 2										Edit	~
		14:17										
Adam Ellis												
Test note num	ber 1										Edit	\sim
								cal ac	tion	/	Void	
							me	enu				

Social (Clinical Notes - Feed) Archetype Pattern



Social (Clinical Notes - Feed) Archetype Pattern

Visualization Deconstruction



Use today:

Have you chosen the most effective UX architecture to navigate across all your primary objects?

UX Architecture



UX Architecture – Performance characteristics









	Sequential	Hierarchical	Hub & Spoke	Matrix	Network
Location Awareness	High	Medium	Medium	Medium	Low-Med
Visual Search Effectiveness	High	High	High	Medium	Med-High
Task Speed	Low	Low	Low	Low-Med	Low-Med
Working Memory Load	Low	Medium	Medium	Medium	Med-High
Learnability	Easy	Fast & Easy	Fast & Easy	Medium	Low-Med
Effectiveness	High	High	High	Medium	Med-High
Efficiency	Low	Low	Low	High	High
Satisfaction	Medium	Med-High	Med-High	Low-Med	Medium

Who: Digital Natives recognize Interaction Design patterns

- 5B of the 7.7B people on earth interpret GUI design patterns as Actions and Objects (Interaction Design Grammar)
 - Thanks to the internet and smart phone global penetration
- The other 2.7B whether literate or not...
 - Must linguistically associate physical world metaphors with on screen objects and actions to participate in HCI
 - They will be (self) taught based on their own natural language of nouns and verbs to understand what any new tool can do

99% of the digital product and service economy are in the first 5 Billion

Layer 3 - Flow



Use today:

Are you minimizing the number of steps and screens across all your entire product system?

Actions propel Objects through Flow

Actions

Objects	Donate	Adopt	Schedule	Share	Learn
Dog	Х	Х	Х	Х	Х
Owner	Х	Х	Х	Х	Х
Organization	Х		Х	Х	Х
Money	Х		Х		

Most BOXES will represent OBJECTS Most LINES will represent ACTIONS

Simple Donation Flow

Actions propel Objects through Flow



Layer 4 - Game Theory



Use today:

Can you motivate and guide human behavior to favor specific **objectaction pairs (aka tasks)?**

Game Theory for Interaction Design is part of UX Magic

- Gameful Interaction Design
 - Substitution of a game as a proxy for a
 - transactional task
 - Intrinsically fulfilling
 - Generate feeling of competence & autonomy

•

• Using technology to persuade user to change behavior

Captology

Pure Games

- Entertainment
- Learning/Education (war)
- Voluntary engagement
- Rules and competition (not free play)

Gamification

elements to

incentivize

Addition of reward

productive work

- Lack of consequences
- Compelling narrative!

Mapping to UX Magic – Conceptual Models

- Gamification provides Action incentives
- Gameful Interaction Design utilizes Object substitution
- Captology focuses on Attribute manipulation
 - When used in tools and online services

Reasons to Apply Game Theory in Interaction Design

Increasing	Decreasing
Productivity	Errors
Performance	Boredom during repetitive tasks
Satisfaction	Unsafe behavior
Sales/Revenue	Energy consumption
Community size	Gambling
Health and well-being	Conflict
Sustainability	Absenteeism

Incentivizing user tasks (object-action pair)
Human Motivators to target

Intrinsic	Extrinsic
Autonomy	Benefits
Belonging	Bonus/Reward
Creativity	Competition
Curiosity	Fear of failure
Learning	Fear of loss
Love	Fear of punishment
Mastery	Greed
Meaning	Praise
Pleasure	Status



Game Theory is everywhere



Interaction Design can outperform medication



BlueStar - Diabetes Solution from WellDoc Inc.



End of Preview

- What
- When
- Why
- How

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Semantic Interaction Design

Semantic IxD – Only Interaction Design step



Semantic Interaction Design Framework

We have completed our preview of the Semantic Interaction Design core – but there is much more....

Chapter 10 – **Chess** (future of UX design & designers) Chapter 9 – **Myth** (UI style guide applicability) Chapter 8 – **Elegance** (graphic design for Semantics)



UX Magic – Book by the Interaction Design Foundation



We only scratched the surface of the Semantic Interaction Design topic.

To dig in deep:

- Get the book
- Study it
- Do the related exercises
- Teach the method to others...

You can purchase this new book from the Interaction Design Foundation on Amazon

Addendum

For individuals:

- If you found this new Semantic IxD approach compelling please **tell your UX colleagues** at other companies about it. **Post on social media** and help spread the word within the global UX design community.
- Join the Interaction Design Foundation (the publisher) and learn more about IxD in general...

For UX leaders/manager:

- I have been giving corporate training classes on this the Semantic IxD method for years
- It includes how it integrates into Data Visualization and Information Architecture which are not covered in the book.





The End – Q&A

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