# 6 Checkout Optimization Lessons based on years of testing at the Baymard Institute

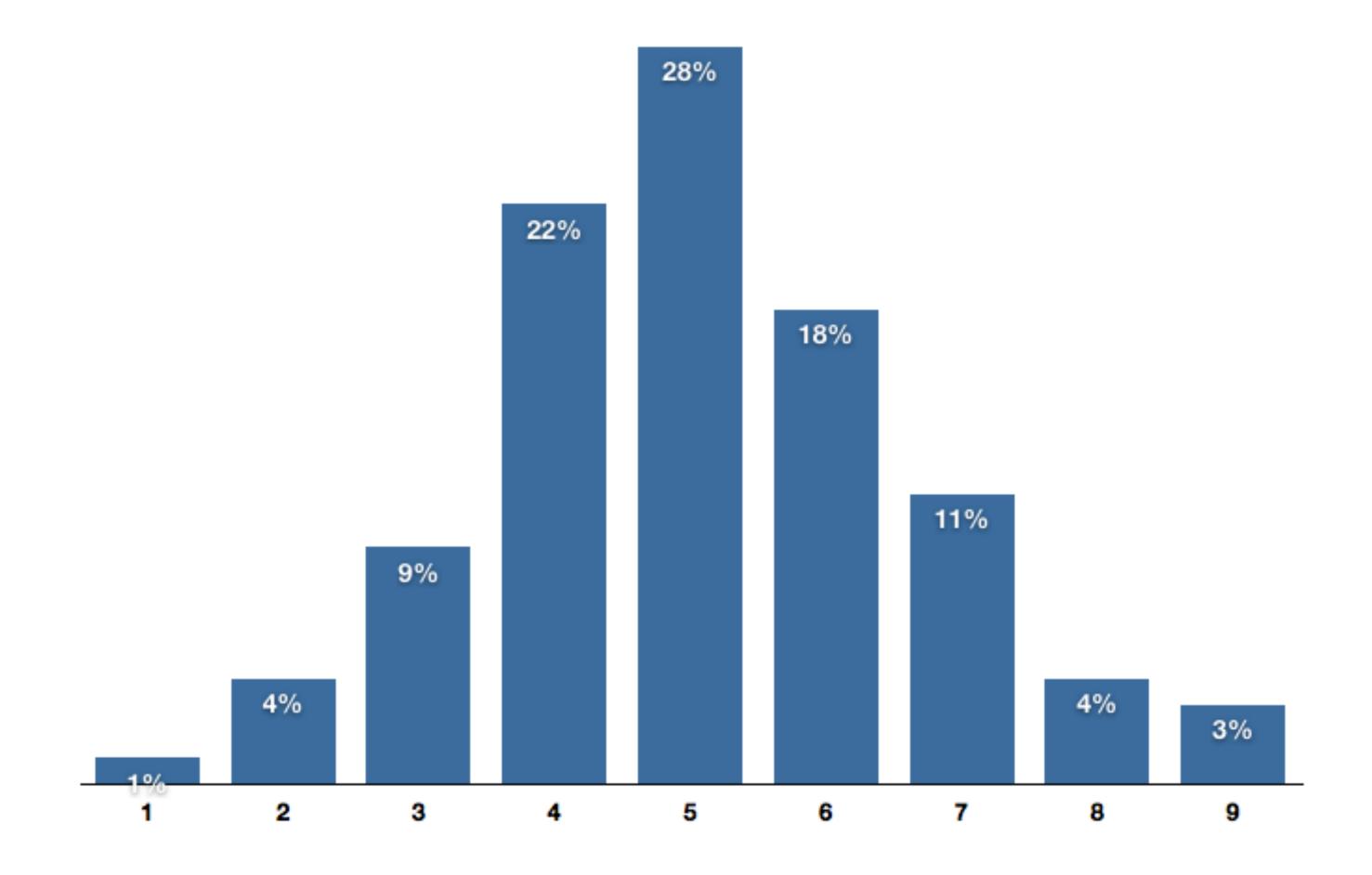
# Years of Checkout Research

- Large-scale checkout usability study of 15 of the largest e-commerce sites
- Benchmark study of 100 major US e-commerce sites' checkout process
  - Large-scale eye-tracking study of checkout processes
- Audited and consulted on checkout optimization for several Fortune 500 companies

# Checkout Optimization 2015

- 68.07% cart abandonment rate and still rising
  - (2006 2015 average of 29 independent studies)
- Good checkout usability requires going beyond basics with 10-30 smaller design improvements
  - Today we'll look at 6 checkout optimization lessons

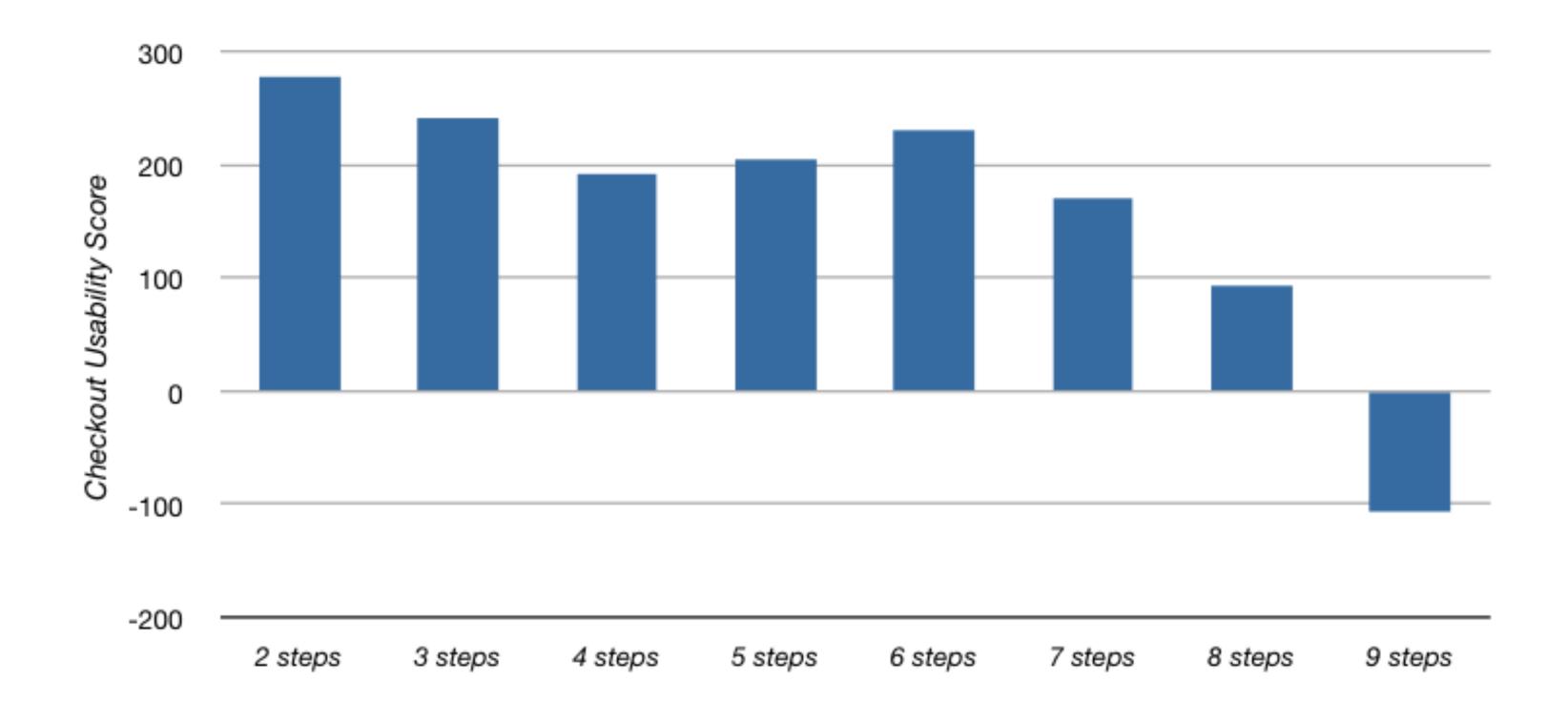
# Average Number of Checkout Steps



Number of checkout steps for the top 100 US e-commerce site

(avg. 5.08 steps from 'cart' to 'order review')

# It's Not About the Number of Checkout Steps



It's not about the number of checkout steps, but what you ask users to do at each step (and how you ask them)

Shipping Information		
Billing Address		
Payment Options (Step	2 -5 4	
ayment options (Step	5 01 4)	
Your Payment Method		
Credit Card		
	VISA Manifester Discover	
Card Number	Exp. Date	
	Month Year Y	
O PayPal		
O PayPal		
	s and Merchandise Credit	
	s and Merchandise Credit	
Promo Codes, Gift Card	► REDEEM	
Promo Codes, Gift Card	► REDEEM	
Promo Codes, Gift Card Enter code or number Promo codes are case sensitive © baymard.com 2014	► REDEEM	
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Promo Codes, Gift Card Enter code or number Promo codes are case sensitive © baymard.com 2014 L.L.Bean Visa Coupons Coupon Number Enter number	► REDEEM	
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32 eye-tracking participants at L.L.Bean



This orde Card for applicab prices sh

# Research: How Do Visitors Interact with Form Fields and Buttons?

Users show a disproportionate amount of attention towards empty form fields

Users will feel they are overpaying when seeing a coupon code field



#### I. JINFFING

#### Shipping address

john Newman 2125 Chestnut St San Francisco, CA 94123-2708 United States 4153159567 Edit

#### Shipping method

Standard Shipping. Estimated arrival date: Mar 21 Edit

No gift box added. Edit

Order summary

Brooks Beast 12 Road-Running Shoes - Men's Quantity: 1 \$140.00

Subtotal Standard shipping Tax (?) Total due

\$140.00 FREE \$12.25 \$152.25

Edit cart

#### THE REI | 100% SATISFACTION DIFFERENCE | 100% GUARANTEED

### **2. BILLING**

#### Billing address

john Ne San Francisco, CA 94123-2708

#### New REI membership

p for a one-time fee of \$20. REI member benefits include an annual up to 10% back, exclusive member deals and more.

#### Current REI members

to this order to receive your member benefits.

Payment method		
Coupon code		
Gift card		
Credit card VISA MasterCard		
Card number*	Expiration date*	Security code* ?
	y, your card won't be charged yet ymard.com 2014	

#### **3. REVIEW AND SUBMIT ORDER**

32 eye-tracking participants at REI

# Lesson I: Understand Form Field Attention

To avoid 'coupon hunting' hide coupon code field behind a link

Only utilized at 26% of all sites

Consider renaming it 'reward code' or even 'gift certificate'



# Research: Seemingly Unnecessary Info Requirements

"Look, why do they need my phone number? What do they need that for? They don't need it!"

Every single subject we've tested at one point complained about a site asking for too much personal information

A required phone cause privacy concerns as users 'know' that they can be (and typically are) contacted by email

Company: If you do not have a Company na     Email:     Please send me email notifications regarding Symantee
2. Billing Information United States or Canadian addresses only.
* Address:
* City:
* State/Province:
* Zip/Postal Code: * Country: United States \$
* Telephone: Format: ###-####

#### 3. Shipping Information

Use the above billing information for your shipping information.

#### 4. Payment Information



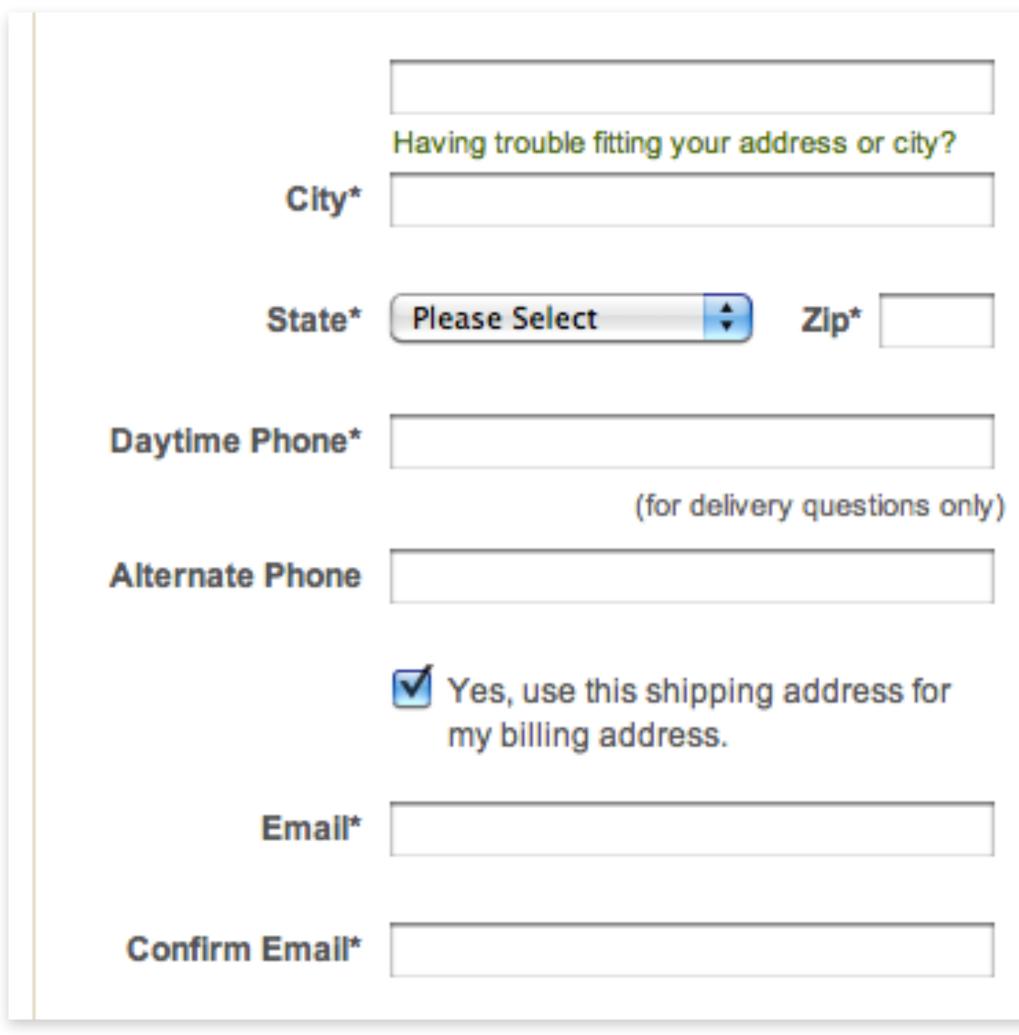
## Lesson 2: Explain Seemingly Unnecessary Requests for Personal Info

The subjects were very forgiving if the site explained why phone was required

Either make phone optional or explain it

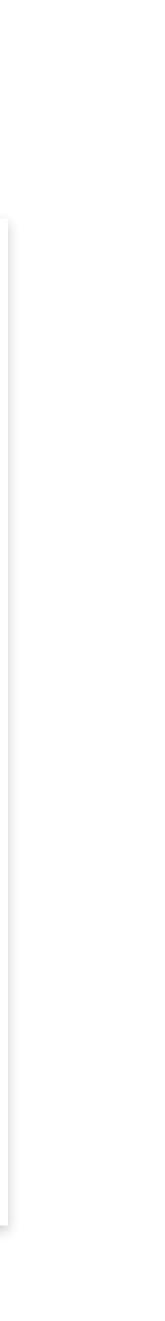
61% of all sites require phone without explaining what it will be used for

Also applies to other personal info such as gender, date of birth, social security number, etc.



Williams-Sonoma





# Research: Redundant Information Requests

	ess	Shipment Notifi			Edit Ship
John Newmar	n <b>–</b>	1. john.newman@	baymard.com	Signature may be required f	or delivery
415 848-444	45				
2125 Chestn					
	CA 94123-2708				
United States					
hipping Meth	od				Edit Shipping Me
Standard Ship	oping — Free				
					Edit Cart
	iPac	l with Wi-Fi 16GB -	Black (3rd generat	ion) \$499.00 1	\$499.00
	Deliv	ers Aug 22 by Standard Sh	ipping		
	Part	umber: MD333LL/A			
	Recy	cle fee			\$6.00
ayment & Acc	ount				
	ing Details				
avment & Bill	ing betuins				
ayment & Bill	-				
ayment & Bill	-				
ayment & Bill Debit/Cred		ft Card Financing			
		ft Card Financing			
	it Card Apple Gi		n		
	it Card Apple Gi	ft Card Financing	on <b>VISA </b>	DISCOVER	
Debit/Cred	it Card Apple Gi	me as shipping informatio	VISA S		v Codo
Debit/Cred Billing Contact	it Card Apple Gi	me as shipping informatio	Debit/Credit Ca	rd Number Security	y Code
Debit/Cred Billing Contact	it Card Apple Gi	ime as shipping informatio	Debit/Credit Ca Expires Month	rd Number Security	y Code
Debit/Cred Billing Contact John 415	it Card Apple Gi 2. Sa Newman 848-4445 Alternate Phone (	ime as shipping informatio	Debit/Credit Ca	rd Number Security	y Code

baymard.com

### 50% of all sites ask for the same info multiple times during checkout

### Lesson 3: Don't Ask for the Same Info Twice and Pre-Fill Fields

Rarely happens on the same page

Obviously avoid asking for redundant info – but what about things that are often, but not always, the same? Like billing vs shipping address

Reduce friction by *pre-filling* things such as name (in particular cardholder name), e-mail, zip code, or an address typed earlier (e.g. during account creation)

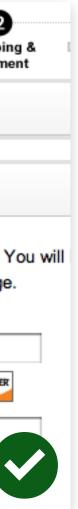
For most B2C sites billing address can default to the shipping address

John Newman 2125 Chestnut st. San Francisco, CA, 94123 United States	How would you like to pay?	Confirm order details and shipment method.
Change		
-		
Add New Payment Meth We accept American Express, Ma	od asterCard, Visa and Discover Card.	
We accept American Express, Ma	asterCard, Visa and Discover Card.	

hipping and	Payment Information (Return to login page)	SECURE CONNECTION Log in Shi Pa				
Shipping Addres	S	Your Cart (\$114.40)				
* Fields are requi	red					
First Name *		Credit Card PayPal Google =				
Last Name *		Don't worry, you will not be charged yet.				
Company		chance to review your order on the next page				
Street Address *		Name on card *				
	Please note that we cannot ship to a PO Box					
City *	San Francisco	Card Number *				
Zip/Postal Code *	94123	Expires * 01 2012 2				
		Security Code * What's this?				

Use this address for my Billing information.



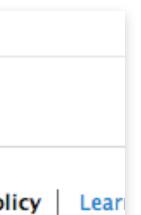




### Shipping Address

Christian	Holst	<ul> <li>Signature ma</li> </ul>
2125 Che	is not a valid entry. Please check that the information is co	We do not sh Delivery estin
941	41531591	<ul> <li>We do not sh</li> </ul>
Street Address		
Apt, Suite, Bldg	g. (optional)	
ZIP Code	Enter ZIP for City and State	
United States ping Notificatio	This is a business address <b>2</b>	
United States <b>ping Notificatio</b> Shipment notific	This is a business address <b>2</b> ons <b>2</b> cation emails are sent to the Billing Contact. In temail address may be added below.	
United States ping Notificatio Shipment notific Another recipien Email Address	This is a business address <b>2</b> ons <b>2</b> cation emails are sent to the Billing Contact. In temail address may be added below.	
United States ping Notificatio Shipment notific Another recipien Email Address For shipment up below.	This is a business address <b>?</b> ons <b>?</b> ation emails are sent to the Billing Contact. It email address may be added below. (optional)	
United States ping Notificatio Shipment notific Another recipien Email Address For shipment up	This is a business address <b>?</b> ons <b>?</b> cation emails are sent to the Billing Contact. It email address may be added below. (optional)	

Apple



be required to P.O. boxe tes below in directly to A

# Research: Use of Inline Labels

Field labels inside the field is visually very simple, however...

... the form fields get very difficult to interact with, and ...

... each field loose its *context* the second the user starts typing (unless the label changes position)

Especially problematic on errors





### Make Checkout as Frictionless as Possible



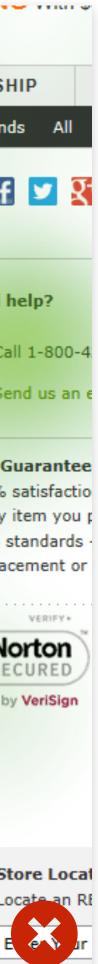
will be perceived as 'forced' account creation

#### Learn more <u>baymard.com/blog/mobile-checkout</u>

SHOP REI	SHOP RE	I-OUTLET		TRAVE	EL WITH REI	L	EARN	SH	IARE	MEM
Camp & Hike	Climb Cycle	Fitness	Run	Paddle	Snowsports	Travel	Men	Women	Kids Foo	otwear
Begin Che	ckout									
Log In to Your R	El Online Acco	unt!								
Emai	il:									
Passwor	d:									
Create an REI Or					•••••					The
You don't have to be		to get an P	EL onli	ne accour	+					Our
Anyone can register		to get un i	CEI Onn	ne account						that
Faster checkout										you
<ul> <li>Easy access to year</li> </ul>	our order status									for
<ul> <li>Convenient acces</li> </ul>	ss to your past or	rders			Re					
Proceed as Gues	st									
No time right new?	No problem Veu									po
No time right now? complete checkout v			nt.		Proceed as					
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			1	((	baymand mber benefits	om 201	/ -	-	selected item	s!

nurchases)

60% overlook the 'Guest Checkout' option



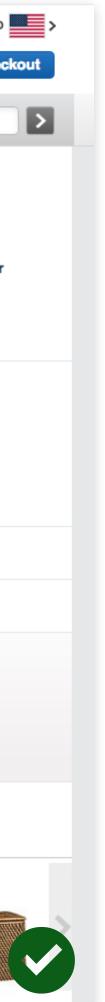
## Lesson 4: Consider the Placement of 'Guest Checkout'

OINTS. March 14-18. See details.		U		Crate&Ba	arrel	🗬 LIVE CHAT	800.967.6696 CART	©®2 ₩ 0 ▼ SIGN	IN SIGN UP
MEN JUNIORS KIDS BRANDS	SALE	SPECIALTY SHOPS		Shop All Departments	Inspiration	Gift Registry	Sale S	earch Enter key	word or item #
<pre>&lt; return to shopping bag new and guest customers</pre>	sign-in	> addresses> payment ar	ign-in	Thank you Order number is: 308 You will receive an email confirm Print Receipt	512033				Questions? Call 800.967.6696 o Email us
You are not required to sign in; you may check out as a Guest. You will have the opportunity to register during Checkout. Note: Your Saved for Later items will be deleted unless you register or sign in.	-OR-	The fastest way to review your selections, Address Book, and submit your order. E-mail Password Your password is cAsE SeNsiTi Forgot your password?		Save your information Create Password: Required (4-18 characters)	n for next time Verify Password:	,	ate Account		
Continue to Checkout		Expi	ress Checkout	<ul> <li>&gt; Detailed Order Receip</li> <li>&gt; Return Policy</li> </ul>	pt				
SEE COLORS & VIEWS	-8 Dusiness	pick it up instead		Let us know what you t Take our 1 Minute Surve		Visit Our Other Sites	The Land of N	Vod.	
		Subtotal: \$65.00 Estimated Shipping: Free Choose method in Checkout.	SEE COLORS > Alternative Heathered Pullover \$35.00	Popular Items Based	on Your Order				
FREE Shipping. FREE Return	18.	Estimated Total: \$65.00 Tax calculated in Checkout.	****						
"Junct' is top laft following a		etako koadina patt		Postpopod acc	ount cro	ation (no			$2 f_{1} = d_{2}$

'Guest' is top-left, following a western reading pattern

Learn more <u>baymard.com/blog/mobile-checkout</u>

Postponed account creation (perceived as just 2 fields)



# **Research: Perceived Level of Security**

Test subjects talked about different areas of the checkout page as particularly 'secure' or 'insecure'

Primarily concerned about their credit card information

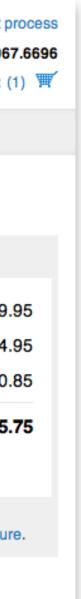
Users have little technical knowledge of HTTPS, but go with their gut feeling

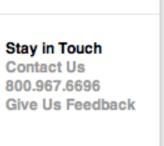
Crate&Barrel Checkout	Tell us what you think about our checkout p Have a question? I Checkout FAQ I Tel.: 800.96 Cart
1. Shipping       2. Payment       3. Review & Place Order         Enter Payment Information	
<ul> <li>&gt; Pay with Gift Card / eGift Card</li> <li>&gt; Redeem Promo Code or Savings Certificate</li> </ul>	Order Summary Merchandise: \$9 Shipping: \$4
Card Type: (Required)  Card Number: (Required)	Tax:   \$0     Order Total:   \$15     Shipping & Tax Details
Expires On: (Required) (01) January  2012 Security Code (Required) What is this? Name on Card: (Required) John Newman	Secure Checkout     Shopping is always safe and secure

#### **Enter Billing Address**

Same as Shipping:	John Newman 2125 CHESTNUT ST SAN FRANCISCO, CA 94123
Day Phone: (Required)	Evening Phone:
Email: (Required) Back Continue	
Crate&Barrel ©2012 Home My Cart Privacy Policy Terms of Use Site Index	

Stay in Touch Contact Us 800.967.6696





# Research: Visual Reinforcement & Perceived Level of Security

Visual clues such as borders, a background color, and security icons add to the user's perceived level of security

89% of sites don't encapsulate their credit card fields

Learn more: <u>baymard.com/blog/visually-reinforce-sensitive-fields</u>

Offic	e depoi	<b>C.</b>				
1. Logi	in	2. Ship	3. Pay	4. Review 8	& Place Order	
Checkout:	Pay (Step 3 of	f 4)			Continue Shopping	
Payment Info	ormation					Need Help?
				Subtotal:	\$4.79	<ul><li>Email Assistan</li><li>FAQs</li></ul>
* Required Inform	ation			Delivery Fee:	\$9.95	Chat not availab
	Same as Shipping			Taxes: Tax Exempt?	\$0.41	Shop with C
* First Name:	John			Total:	\$15.15	Privacy
Middle Initial:						Every transaction using SSL encrypt
* Last Name:	Newman					Privacy Statement
Company Name						Get it Faster
* Address	2125 Chestnut St.					Pick your order up Store
* City	San Francisco					Not what you the Please review our
* State	CA - California	A T				VeriSign Secure
* Zip Code	94123					Your information is VeriSign encryption
Country	USA					
* Phone Number:	41! - 84i - 444 ext.					(V) Ve
Fax:						
* Email Address:	iohn.newman@bayma	urd.com				

#### Canadian users register at: www.officedepot.ca

john.newman@baymard.com

Credit card orders require a billing address that appears exactly as on your credit card statement (even if different than your account billing address). Please enter the address above. Billing information is required for all orders, including Gift/Reward Card purchases.

Payment I	nformation
-----------	------------

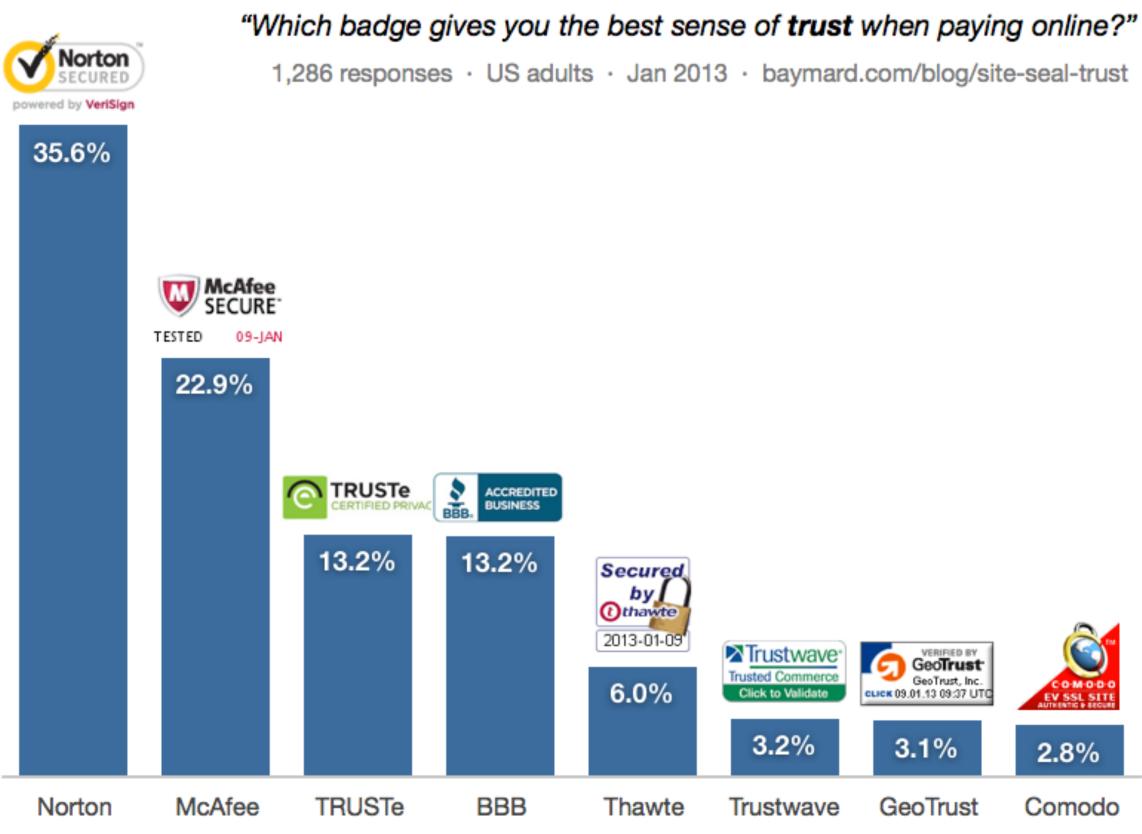
\* Re-Type Email:

* Required Informat Credit Card	tion	
Credit Card Type:	(Select your card type)	
Credit Card Number:		
	Please enter your credit card # without spaces or dashes (i.e. 00000000000)	
Expiration Date:	🗘 / 🛟 (mm/yyyy)	
CID		
Need Help?		

e
nfidence
secured n. View our
t Your Local
<b>ight?</b> eturn Policy
rotected by
iSign ured



# Research: Badges and Perceived Level of Security



## Lesson 5: Encapsulate Your Form Fields to Add Visual Reinforcement and Increase Perceived Security

Checkout	step 1/2	Checkout
* Your name The software license will be made out in this name.	GeoTrust	* Your name The software license will be made out in this name.
* E-mail address We'll send the receipt to this e-mail address.		* E-mail address We'll send the receipt to this e-mail address.
Company name (optional) If you want your company name on the invoice, just add it here.		Company name (optional) If you want your company name on the invoice, just add it here.
Secure credit card payment This is a secure 128-bit SSL encrypted payment.		Secure credit card payment This is a secure 128-bit SSL encrypted payment.
* Credit card number The 16 digits on the front of your credit card.		* Credit card number The 16 digits on the front of your credit card.
<ul> <li>Expiration date</li> <li>The date your credit card expires. Find this on the front of your credit card.</li> <li>01 + / 11 +</li> </ul>		<ul> <li>* Expiration date The date your credit card expires. Find this on the front of your credit card.</li> <li>01 2 / 11 2</li> </ul>
Security code (or "CVC" or "CVV") The last 3 digits displayed on the back of your credit card.		* Security code (or "CVC" or "CVV") The last 3 digits displayed on the back of your credit card.
What happens now? This is step 1 of 2. On the next page you can review your cart and product info will not bill you until you confirm the order on the next page.	ormation. We	What happens now? This is step 1 of 2. On the next page you can review your cart and product information. will not bill you until you confirm the order on the next page.
Next step »		Next step »

### All are fields identical

### 'Sensitive' fields are visually reinforced

# Research: Validation Errors

### **Important Message**

There was a problem with your address submission. Please fix all the areas below and try again.

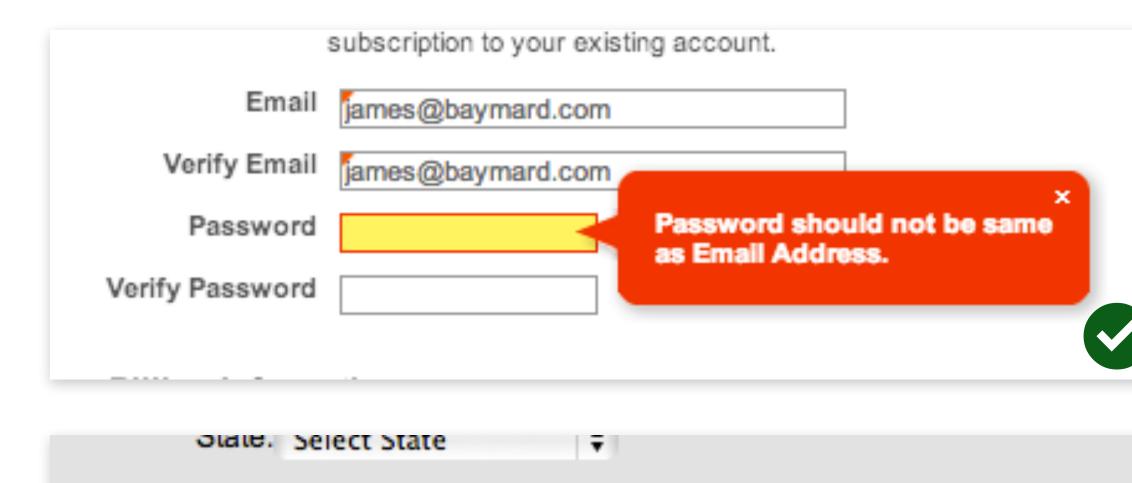
### Add Credit/Debit Card **Credit or Debit Card Number:** DISCOVER Discover JCB VISA Com **Cardholder's Name: Expiration Date:** 02 **‡** 2016 **‡ Add Billing Information** Full Name: Address Line1: Address Line2: City: State / Province / Region: ZIP: Country: \$ **Phone Number:** Continue

Input errors are bound to happen – the user's 'recovery experience' is vital to conversion

(100% abandonment on unresolved errors)

s and the R	ecovery Exp	berie	ence	
Please enter a v	alid zip code for your region	ı.		
Would you like	to create a Blue Nile Accou	int and st	ore this information?	O Yes
*First Name	John		*Address	2125 Chestnut st
*Last Name Company	Newman		*City	San Francisco
*Phone	4158484445	Intl. number?		CA California
*Email	Phone Number Ext. john.newman@baymard.com		*Zip Code	9412w United States
Register in	oursen			
jamie+3	3p@baymard.com		You have entered a e-mail address. Ple again.	
Name			Surname	
3				





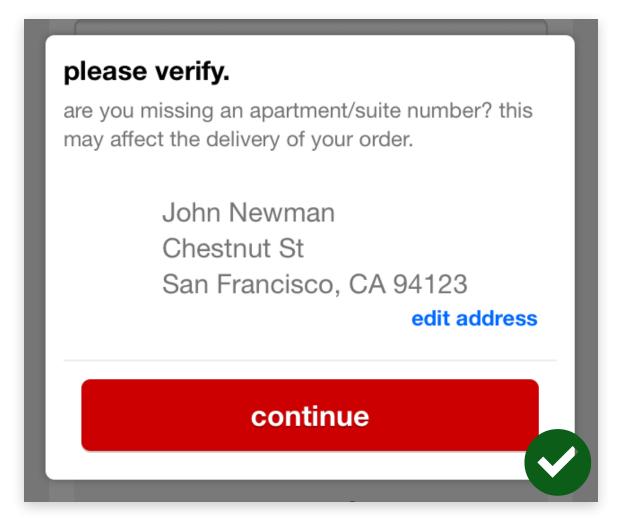
Zip Code: 94123

Phone: 41

### 415 848-4445

This entry can only contain numbers. Please try again.

Why is this required?



Learn more <u>baymard.com/blog/validations-vs-warnings</u>

# Lesson 6: Display the Triggered Error Rule

I) Persist all typed data – retyping is infuriating and can lead to repeat errors

2) Highlight field and have the error description nearby (never *only* at the top of the page)

3) The error message should print the actual validation rule invoked – don't simply write *'invalid phone number'*; instead write '+ *character not allowed'* or '10 digits required'

4) Consider using non-blocking warnings instead of validators (currently only 36% have address warnings)

5) I-4% of all transactions are declined: guide the user through the process, offer alternatives, and phone support.

# The 6 Checkout Optimization Lessons

- Hide coupon code field behind a link, to avoid needless attention
  - Explain what the phone number will be used for
- Pre-fill all prior typed info (e.g. cardholder name) to reduce typing
- 'Guest Checkout' should be in the top left area (or chosen by default) + have optional password fields late in the checkout
  - Encapsulate your credit card fields to add visual reinforcement
- Display the actual error rule triggered and consider non-blocking warnings instead of validators, etc

# Checkout Optimization 2015

### 68.07% cart abandonment rate – and still rising

(2006 - 2015 average of 29 independent studies)

Good checkout usability requires going beyond basics with numerous smaller design improvements

"Research-Driven Design"

