

# The Apple Store's Checkout Form Redesign

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Though most people wouldn't consider Apple's Web site an important online destination, November saw Apple [in the top ten list of US Web sites](#). 62 million Internet users visited Apple online during the month with an average of 1 hour and 18 minutes spent per user. By comparison, Google had 155 million unique visitors in November.

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Apple's online store certainly played a role in this achievement as [retail sales data shows](#) that Mac sales were up 21% year-over-year in the months of October and November. So it's interesting to note that Apple's primary online sales channel (Web-based checkout) was redesigned during this time.

## PREVIOUS APPLE CHECKOUT

The screenshot shows the 'Sign In' step of the checkout process. At the top, a progress bar indicates the steps: Sign in, Billing & Shipping, Gift options, Payment, and Verify. The 'Sign in' step is highlighted. Below the progress bar, there are two main sections: 'Sign in' and 'New Account?'. The 'Sign in' section prompts the user to enter their Apple ID and password. The 'New Account?' section prompts the user to enter their email address. At the bottom, there is a link to 'Forgot your Apple ID or password?' and a 'Sign in' button.

The screenshot shows the 'Shipping Information' step of the checkout process. At the top, a progress bar indicates the steps: Sign in, Billing & Shipping, Gift options, Payment, and Verify. The 'Billing & Shipping' step is highlighted. Below the progress bar, there is a 'Shipping Information' section. It prompts the user to enter their name, shipping address, and contact information. There are fields for first name, last name, and phone number. Below these, there is a 'Shipping Address' section with fields for street address, apartment number, city, state, and zip code. There is also a 'Country' dropdown menu. At the bottom, there is a 'Delivery Contact' section with fields for email address and phone number. A 'Continue' button is at the bottom right.

The screenshot shows the 'Verify your order' step of the checkout process. At the top, a progress bar indicates the steps: Sign in, Billing & Shipping, Gift options, Payment, and Verify. The 'Verify' step is highlighted. Below the progress bar, there is a 'Verify your order' section. It prompts the user to enter their security code. Below this, there are two columns of information: 'Billing Address' and 'Shipping Address'. The 'Billing Address' column includes fields for name, address, city, state, zip code, and country. The 'Shipping Address' column includes fields for name, address, city, state, zip code, and country. Below these, there is a 'Payment Method' section with a dropdown menu for 'VISA 12345' and a 'Payment Settings' section with a dropdown menu for 'MasterCard 12345'. There is also a 'Tax Information' section with a dropdown menu for 'VAT Reg. No.'. Below these, there is a 'Shipping Information' section with a dropdown menu for 'Standard shipping' and a 'Total' section with a dropdown menu for 'Total'. At the bottom, there is a 'Giving a gift?' section with a dropdown menu for 'No' and a 'Continue' button. Below this, there is an 'Order Summary' section with a table showing the items in the order, their quantities, and their prices. The table has columns for 'Items', 'Quantity', 'Item Price', and 'Item Total'. The items listed are 'Apple TV with HDMLC drive' and 'Apple TV with HDMLC drive'. The 'Order Summary' section also includes a 'Total' row with a 'Total' value of \$199.99. At the bottom, there is a 'Place my order' button.

The previous design of Apple's checkout form spanned multiple pages and utilized a top-level progress indicator to highlight where people were in the proces. Errors were displayed at the page-

level and did not reference the fields responsible for errors nor provide actionable remedies when error messages showed up. The final checkout confirmation screen had a confusing mix of buttons instead of a single primary call to action.

## PROGRESS INDICATOR



While it's certainly a good idea to let people know how far along in a process they are, you need to be wary of progress indicators that incorrectly represent the number of Web pages or steps required to complete a form. An all too common practice for forms spanning multiple Web pages is the inclusion of a progress indicator that does not accurately mirror the number of pages a form requires.

Consider a typical ecommerce checkout form progress indicator that states there are three pages of inputs you can expect: shipping, billing, and place order. When it comes time to select a shipping address, however, page one is selecting from an existing list of shipping addresses. If the address you want to ship to is not listed, an additional page is required, and you need to add a new address. All of a sudden, step one becomes two steps. When selecting billing in step two, you may need to verify an online payment service provider, log in to its site, select a source of funding, or provide a new billing address. Now step two is four steps.

So we've taken six steps to accomplish what we told our customers was going to take two steps. It's not that giving people a sense of how many steps are required is a bad thing; but we are rarely telling them the truth. One solution is to avoid the progress indicator altogether and just get people through the form as fast as possible. The other is to provide a more high-level progress indicator that does not set expectations explicitly.

## ERROR MESSAGING

### Shipping Information

Unfortunately we were unable to verify your address. Please review your address to ensure it is correct as this is where your order will be delivered to. If it is correct, click Continue to proceed.

**Name**

First Name Last Name Title

Luke Wroblewski

**Shipping Address**

We cannot ship to PO boxes or APO/FPO addresses.

Building number or name or street name

235 Regent Street

Apartment, suite, unit, floor, etc (optional)

Additional address information (optional)

Town/City

London

County Postcode (eg AA99 9AA)

AA99 9aa

Country

United Kingdom [Want to ship to another country?](#)

Top-level message

But no indication of which field is responsible

The input field that is responsible for an error should not only be visible on the page but **also prominently marked**. Both the top-level error message and this input field need to have clear instructions that encourage people to either try another answer or seek help if they can't. The inclusion of instructions next to the input field responsible for the error provides people with **a remedy where they need it most**: where the error can be fixed.

## PRIMARY ACTIONS

### Verify your order

**Credit Card Security Code:**

Before placing your order please enter the security code  
VISA: \*1234567890

Enter security code :  [What is this?](#)

**Billing Address:**

Luke Wroblewski  
1234 Regent St  
London W1B 2EL  
United Kingdom  
[Change this address](#)

Order Confirmation Email

**Shipping Address:**

Luke Wroblewski  
235 Regent Street  
London W1B 2EL  
United Kingdom  
[Change this address](#)

Select another address

**Payment Method:**

VISA: \*1234567890  
[Change](#)

**Promotion Savings**

Enter Promotion Code:   
[Apply Promo](#)

**Tax Information**

VAT Reg. No.

**Shipping Information:**

Delivered via courier service within 3-7 business days after shipping.  
Tracking will be available on-line.  
The shipping method for your order will be confirmed on the notification e-mail you receive when your order has shipped.

£0.00

**Giving a gift?**

Add gift options to your order.  
Our signature gift box, personalized messages, and other gift options are available for many products we sell. [Learn more](#)

[Add gift options](#)

[Place my order](#)

**Order Summary**

Luke, your order will be shipped when all individual items become available - as one single shipment  
Estimated Shipping: within 24 hours  
Estimated Delivery: 17 Dec, 2009 - 21 Dec, 2009  
[Learn more](#) About shipping & delivery options.

Items Details	Quantity	Item Price	Item Total
Apple TV with 160GB drive Part Number: MB1898/A	1	£190.43	£190.43
		Order Subtotal:	£190.43
		Free Shipping:	£0.00
		VAT:	£28.57
		<b>Total:</b>	<b>£219.00</b>

I have read the terms and conditions and clicking on "Place my order" will constitute my acceptance of these [terms](#) for this order.

[Edit Order](#) [Place my order](#)

Multiple  
Actions

Of varying  
color and  
size

Are present  
in the form

Actions such as Submit, Save, or Continue are intended to enable completion, which is the primary goal of just about anyone who has started filling in a form. Because they enable the most important action on the form (completion), they can be referred to as **primary actions**. Secondary actions, on the other hand, tend to be less utilized and often allow people to retract the data they've entered. Because secondary actions can have negative consequences, especially when used unintentionally, I've often argued they should be absent from forms.

That said, there are situations where secondary actions make sense (such as Save for Later, Preview, Export, etc.). Though it may be tempting to treat Previous and Next as equal actions in

these circumstances, keeping people moving forward with a primary Continue action and a secondary Back action is likely to be more productive. After all, we want people to complete these forms, right? When you reduce the visual prominence of secondary actions, it minimizes the risk for potential errors and further directs people toward a successful outcome.

## NEW APPLE CHECKOUT

The screenshot shows the Apple Store checkout page. At the top, there's a navigation bar with the Apple Store logo and a 'Sign in to Checkout' button. Below this, there are two main sections: 'Returning Customer' and 'Guest Checkout'. The 'Returning Customer' section has a 'Sign in' button and a link to 'Forgot your Apple ID or password?'. The 'Guest Checkout' section has a 'Continue' button. At the bottom, there's a 'Just Ask' section with a phone number and a 'Use Chat' button. The footer contains copyright information and links to 'Terms of Use' and 'Privacy Policy'.

This screenshot shows the 'Shipping' and 'Payment' sections of the Apple Store checkout form. The 'Shipping' section includes fields for 'Shipping Contact' (First Name, Last Name, Address, City, State, ZIP Code) and 'Shipping Method' (2-3 Day Shipping, Next Day Shipping). The 'Payment' section includes fields for 'Payment Method' (Credit Card, Apple ID Card) and 'Billing Address'. The 'Order Summary' on the right shows the total price of \$219.00, including shipping and taxes. The 'Items in Your Cart' section shows an 'Apple TV with 32GB drive' for \$199.00. The 'Order total' is \$219.00.

This screenshot shows the 'Payment' section of the Apple Store checkout form, specifically the credit card payment form. It includes fields for 'Cardholder Name', 'Card Number', 'Expiration Date', and 'Security Code'. There's also a 'Pay with two credit cards' option. The 'Order Summary' on the right shows the total price of \$219.00. The 'Items in Your Cart' section shows an 'Apple TV with 32GB drive' for \$199.00. The 'Order total' is \$219.00.

Apple's redesigned checkout form utilizes an accordion interaction to move people through sets of related questions. This eliminates the need for multiple Web pages and the progress indicator in

the previous design. As people complete each section, the form expands inline to display the next set of required questions. You can see this in action [on the Apple store](#).

## ACCORDION INTERACTION

By clicking Continue, you acknowledge that the terms of Apple's [Sales and Refund Policy](#)

### Shipping

**Shipping Contact**

First Name Last Name

Area Code Primary Phone

**Shipping** 2 - Ne>

By clicking Continue, you acknowledge that the terms of Apple's [Sales and Refund Policy](#)

### Shipping

Luke Wroblewski 235 Regent Street  
408 555-1212 San Jose CA 95125  
United States

### Payment

Credit/Debit Card Apple Gift Card Financing

Same as Shipping information

**Order Contact**

First Name Last Name

**VISA**

Credit Ca

While the previous form design used [top-aligned labels](#) to present questions to users, the new design utilizes top-aligned labels for section headers only and [labels within input fields](#) for everything else. In cases where available screen real estate is scant (like an accordion form), combining labels and input fields into a single user interface element may be a tempting way to conserve precious space. However, there are a number of considerations worth calling out.

## LABELS INSIDE INPUT FIELDS

The screenshot shows a 'Shipping' form with two main sections: 'Shipping Contact' and 'Shipping Address'. In the 'Shipping Contact' section, the labels 'First Name', 'Last Name', 'Area Code', and 'Primary Phone' are placed inside their respective input fields. The 'Email Address (optional)' label is outside the field, followed by a blue question mark icon. The 'Shipping Address' section has labels 'Company Name (optional)', 'Street Address', 'Apt, Suite, Bldg. (optional)', and 'Zip Code' inside their fields. The text 'Enter Zip for City and State' is to the right of the 'Zip Code' field. At the bottom, 'United States' is displayed.

A reliable interaction for labels within forms requires the label to disappear quickly when people place their cursor into the input field so they can easily provide their answer. Otherwise, the label might stay and become part of someone's answer.

Because **labels within fields** need to go away when people are entering their answer into an input field, the context for the answer is gone. So if you suddenly forget what question you're answering, tough luck—the label is nowhere to be found. As such, labels within inputs aren't a good solution for long or even medium-length forms. When you're done filling in the form, all the labels are gone! That makes it a bit hard to go back and check your answers.

Apple's solution may be able to mitigate this issue because the form is mostly asking for inputs with a known structure. Mailing addresses, for example, have a widely known structure that can be leveraged to help people understand how to answer questions about shipping or billing locations. Other examples include first name and last name, date and time, or the parts of a phone number. These input groups can be utilized within forms to provide additional clues on which questions were answered (once the labels are gone). The always visible section headers help as well.

Lastly, labels within input fields should be presented in a way that makes it obvious at first glance that they are labels and not answers. The Apple form grays out the label text to distinguish labels from answers.



## AUTOMATIC CITY & STATE INPUT

On the new Apple checkout form, people are asked for their ZIP code first and then given a set of choices for their city and state. On the plus side, **this interaction design** removes some awkward ways of answering questions. Specifically: drop-down menus for states that run 50 entries high. On the negative side, when faced with a set of inputs that match the structure of a mailing address (as mentioned above), people often skip over labels as they fill in the pieces. The components and layout of an address are familiar to just about everyone in the US. The Apple site breaks this structure by **asking for ZIP code out of order**.

## DYNAMIC INDICATION

Any question you ask people in a Web form requires them to parse it, formulate a response, and then input their answer in the affordance you have provided on the form. Being vigilant about every question you ask allows you to remove questions that are not absolutely necessary, or can be asked at a better time or place, or can be inferred automatically. And the fewer questions you ask, the better the odds are of people completing your forms quickly and easily.

Credit card numbers follow a consistent structure. American Express cards start with either 34 or 37. Mastercard numbers begin with 51–55. Visa cards start with 4. And so on. This information can be used to infer what type of credit card someone is using simply by looking at his credit card number.

In their redesigned checkout form, Apple does exactly that. When someone enters a credit card number, the appropriate card type is highlighted directly above. This eliminates the need to ask people what type of credit card they have—one less question to parse, think through, and respond to.

## SELECTION DEPENDENT INPUTS

The image displays two screenshots of the Apple checkout form's Payment section, illustrating selection-dependent inputs. Both screenshots feature a dark blue header labeled "Payment" and three horizontal tabs: "Credit/Debit Card", "Apple Gift Card", and "Financing".

The top screenshot shows the "Credit/Debit Card" tab selected. Below the tabs, the text "Same as Shipping information" is displayed in blue. Underneath, the "Order Contact" section includes input fields for "First Name" and "Last Name". To the right, a "VISA" logo is visible, and a partially visible "Credit Ca" label is at the bottom right.


The bottom screenshot shows the "Apple Gift Card" tab selected. The "Same as Shipping information" text is still present. The "Order Contact" section now shows the input fields filled with "Luke" and "Wroblewski". To the right, the text "Apple Gif" is visible, and an Apple logo icon is shown in a small box at the bottom right.

**Selection dependent inputs** require people to answer follow-up questions based on their answer to an initial question—usually without having to go to another Web page. The new Apple checkout form's payment section uses selection dependent inputs to ask follow-up questions based on the payment method people select. Horizontal tabs arranged across the top of the Payment section allow people to navigate to a section of the form that contains appropriate selection-dependent inputs. The tabs present not only the initial set of options, but also provide a strong indicator of the current selection.

While most people are familiar with the concept of navigation tabs on the Web, the way in which they fill in Web forms may impair the effectiveness of this approach. When completing a form, many people move from top to bottom and, as a result, may ignore horizontal options. There may also be a lack of clarity about whether horizontal tabs are mutually exclusive. Will I submit my selections on all three tabs with the form or only the selections I made on the active tab?

However, when testing horizontal tabs in Web forms for my book **Web Form Design**, none of our participants made any errors, they were able to complete the task quite quickly, and provided high satisfaction scores for this design. So Apple seems to have picked the best fitting UI for this task **from the options available**.

## PRIMARY ACTION

Apple Store / Secure Checkout 

By clicking Continue, you acknowledge that the terms of Apple's [Sales and Refund Policy](#) will govern your purchase.

**Shipping** [Edit Shipping](#)

Luke Whoblewski 408 555-3212 235 Regent Street San Jose CA 95125 United States 2 - 3 day shipping — **Free**  
Signature is required for delivery  
Free 2-3 day shipping for the holidays

**Payment**


Credit/Debit Card Apple Gift Card Financing


Order Contact [Same as Shipping information](#)

First Name Last Name  
Area Code Primary Phone  
Area Code Alternate Phone (optional)  
Email Address

Billing Address


Company Name (optional)  
Street Address  
Apt, Suite, Bldg. (optional)  
Zip Code Enter Zip for City and State  
United States



Credit Card Number Security Code 


Expires 01 2009  
[Pay with two credit cards](#)


**Opportunity clicks.**  
Get 12 months same-as-cash with the Barclaycard Financing Visa.  
[Learn more](#)



[Continue](#)

**Account**

**Items in Your Cart** [Edit Cart](#) 

	<b>Apple TV with 160GB drive</b>	\$229.00	1	<b>\$229.00</b>
Ships: within 24 hours Delivers: Dec 16 - Dec 18 by 2 - 3 day shipping Part number: MB189LL/A				

[Enter Promo Code](#)

Cart subtotal	\$229.00
<b>Free Shipping</b>	<b>\$0.00</b>
Estimated tax	\$21.18
<b>Order total</b>	<b>\$250.18</b>

As we saw, Apple's previous checkout form had a number of visual calls to action of varying shapes and colors. The new design significantly reduces the visual weight of **secondary actions** and puts all the focus on one primary action: Continue. This helps to illuminate a clear path to completion in the form.

## ERROR MESSAGING

Apple Store / Secure Checkout

By clicking Continue, you acknowledge that the terms of Apple's [Sales and Refund Policy](#)

Please complete this mandatory field.

**Shipping Contact**

First Name Last Name

Area Code Primary Phone

Email Address (optional)

**Shipping Address**

Company Name (optional)

Street Address

Apt, Suite, Bldg. (optional)

Zip Code Enter Zip for City and State

United States

**Shipping Method**

☒ Standard Shipping

☐ Express Shipping

**Apple Store**

- Sign in
- We'd like to recommend
- Delivery options

Free time are l

Apple's new checkout form also introduced in-context error messages. So errors are now displayed next to the input fields causing them with clear instructions on how they can be resolved.

## ERROR MESSAGING

The yellow color used for errors in the new form

Is very similar to the yellow used by Safari and other Web browsers for form auto-complete

Instead of being used to indicate errors, red highlights free shipping.

However, the elimination of a top-level error message means it is possible to enter a state where errors are present on a page but only indicated through a light yellow background color. I had this issue come up when changing my credit card information. The credit card number and security code were in an error state but nothing on the form (beyond the light yellow color) told me that. This is especially troubling when you consider that Apple's Web browser, Safari, and other browsers use a similar shade of yellow to indicate input fields they **autofill** for you.

In fact, in Apple's previous checkout form a light yellow background indicated an auto-completed input field. In the new checkout form, it indicates an error. Why isn't Apple using red (the standard color for errors) in its form? That seems to be reserved for free shipping!