

Programiranje korisničkog interfejsa

Uzorci dizajna

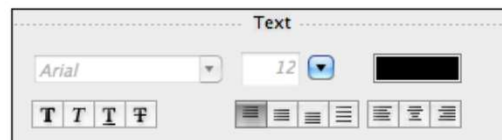
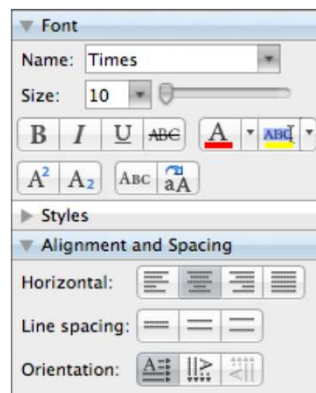
Uzorci dizajna

- Uzorci su dobra rešenja za većinu problema
 - Osnovni GUI uzorci:
- Tidwell (<http://designinginterfaces.com/>
<http://designinginterfaces.com/firstedition/>),
- Salaakso (<http://www.cs.helsinki.fi/u/salaakso/patterns/index.html>)
- User Interface Design Patterns (<http://ui-patterns.com/>)
- Vrste uzoraka koje ćemo obraditi
 - Akcije i komande
 - Forme i kontrole

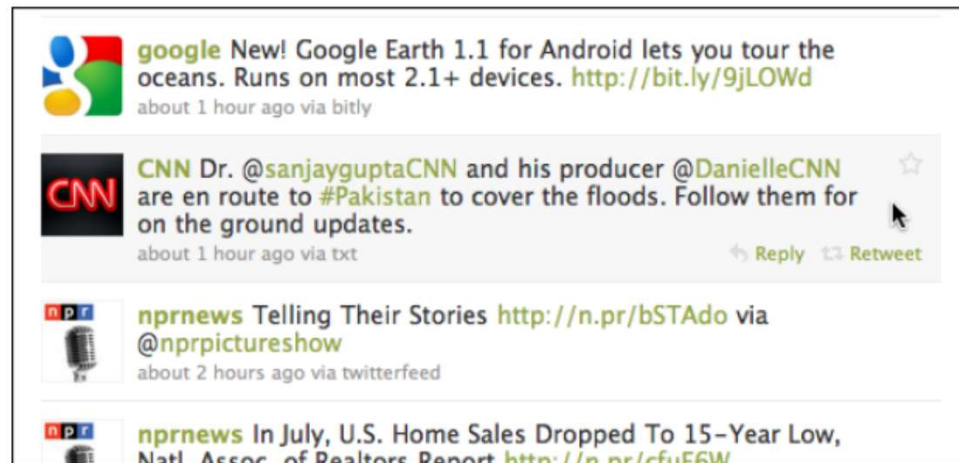
Akcije i komande -Uzorci

1. Button Groups (Grupe dugmića)
2. Hover Tools
3. Action Panel (Panel sa akcijama)
4. Prominent “Done” Button (Dugme koji signalizira kraj akcije)
5. Smart Menu Items (Pametne stavke u meniju)
6. Preview (Prikaz)
7. Progress Indicator (Indikator napretka)
8. Cancelability (Mogućnost otkazivanja)
9. Multi-Level Undo (Povratak na predhodna stanja)
10. Command History (Istorija komandi)
11. Macros (Makroi)

Grupe dugmića



Hover

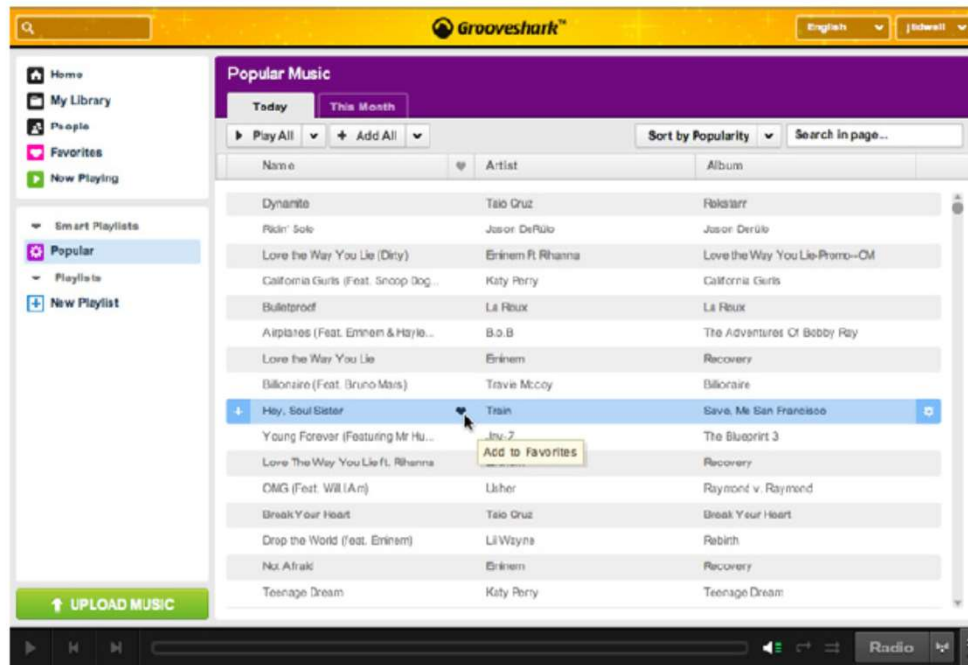


The image shows a screenshot of a Twitter feed with four tweets. The second tweet is highlighted with a light gray background, and a mouse cursor is hovering over it. The tweets are as follows:


- google** New! Google Earth 1.1 for Android lets you tour the oceans. Runs on most 2.1+ devices. <http://bit.ly/9jLOWd>
about 1 hour ago via bitly
- CNN** Dr. @sanjayguptaCNN and his producer @DanielleCNN are en route to #Pakistan to cover the floods. Follow them for on the ground updates.
about 1 hour ago via txt Reply Retweet
- nprnews** Telling Their Stories <http://n.pr/bSTAdo> via @nprpictureshow
about 2 hours ago via twitterfeed
- nprnews** In July, U.S. Home Sales Dropped To 15-Year Low, Natl. Assoc. of Realtors Report <http://n.pr/cfuE6W>

Hover

- Grooveshark – prikaz akcija po pesmi



Hover




0 Concord Rd. Lot 1, Weston, MA FEATURED

House For Sale: \$950,000
Monthly Payment: \$3,788 [▶ See current rates on Zillow](#)

Beds: -- Sqft: -- Days on Zillow: 66
Baths: -- Lot: -- Built: --

[3 Photos](#) [Save](#) [Alerts](#) [Contact](#) [Similar Sold](#)




21 Crescent St, Weston, MA FEATURED

House For Sale: \$1,695,000 ▼ \$100,000 (Jul 21)
Monthly Payment: \$6,758 [▶ See current rates on Zillow](#)

Beds: 5 Sqft: 3,686 Days on Zillow: 109
Baths: 3.5 Lot: 68,712 Built: 1812

[16 Photos](#) [Save](#) [Alerts](#) [Contact](#) [Similar Sold](#)



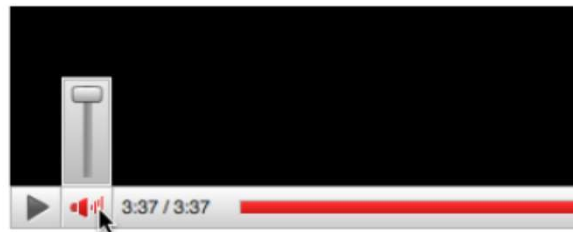
48 Myles Standish Rd, Weston, MA FEATURED

House For Sale: \$3,495,000 COLDWELL BANKER
Monthly Payment: \$13,936 [▶ See current rates on Zillow](#)

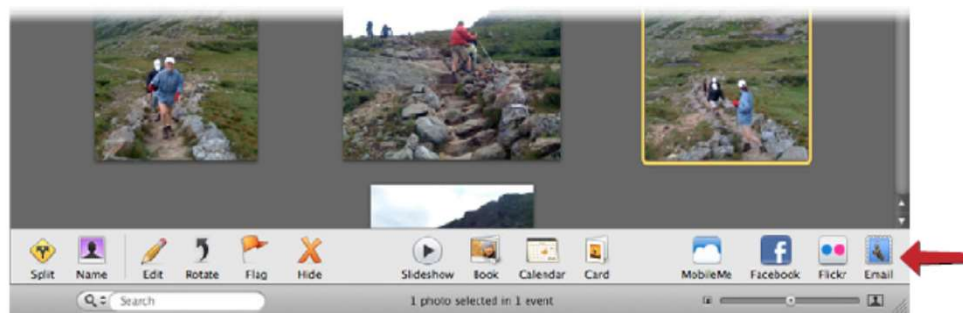
Beds: 5 Sqft: 10,600 Days on Zillow: 138
Baths: 6.5 Lot: 65,340 Built: 2006

[6 Photos](#) [Save](#) [Alerts](#) [Contact](#) [Similar Sold](#)

Hover




Panel sa akcijama



Dugme koji signalizira kraj akcije

one hour courses. [Your Shopping Cart](#) | [Your Account](#) | [Sign In](#) | [Contact Us](#)

I want to improve my... 

[management](#) [leadership](#) [communication](#) [creativity](#) [customer service](#) [project management](#) [job search](#) [blog](#)

existing user

E-mail Address:

Password:

[sign in](#)

[Forgot your password?](#)

new user

Your personal information is safe. [View our privacy policy.](#)

* All fields required

First Name:

Last Name:

Alias: [What's this?](#)

E-mail Address:

Re-enter E-mail Address:

Password:

Re-enter Password:

[create account](#)

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Dugme koji signalizira kraj akcije

Book a flight

Recent searches: BOS to SEA

Round trip One way Multi-city

Where from?

Where to?

Date to leave?

Date to return?

1 Adult 8+ travelers?

0 Kids 0 Lap infants
Ticketed kids & infants (0 to 13 years) Unticketed lap infants (0 to 2 years)

Fare type:
 Lowest Refundable Points

Find flights

For special needs, minors, pets and baggage policy, see [FAQs](#)

Round-trip One-way Multi-city Weekend

From To

Include nearby airports or [select airport](#) Include nearby airports or [select airport](#)

Depart (flexible): Anytime

Sun, Sep 19 2010 Sun, Sep 26 2010

1 traveler Economy Prefer Nonstop

Compare hundreds of travel sites at once.

Search

Air Car Hotel

Round Trip One-Way

From

To

Depart Return

1 Adult age 0 Seniors 65

Where to fly

Advanced Search

Search

Dugme koji signalizira kraj akcije

Book Flights ? **View/Change Reservations** **Flight Check-In**

Book: Flight Only Flight & Hotel [Save!](#)

Traveling: Round-Trip One-Way Multi-City [Looking For Destination Ideas?](#)

From: [Lookup](#) **To:** [Lookup](#)

Airports Within **Airports Within**

Departure Date : **Return Date :**

Passengers : [Child or Senior](#)

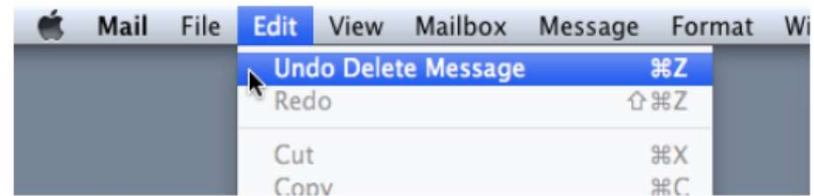
Promotion Code : [Promotion Code Information](#)

(Maximum of 6 passengers per reservation)

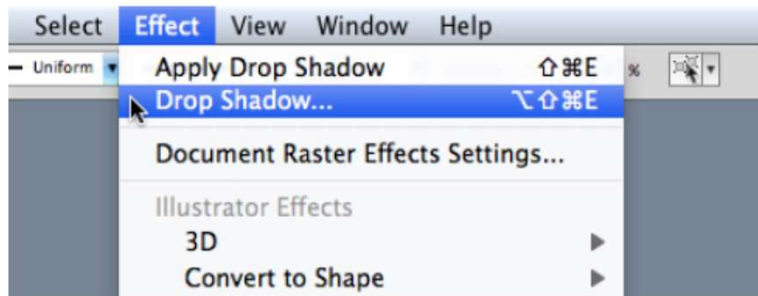
Show Results By: Price & Schedule Schedule

[More Search Options](#) **GO**

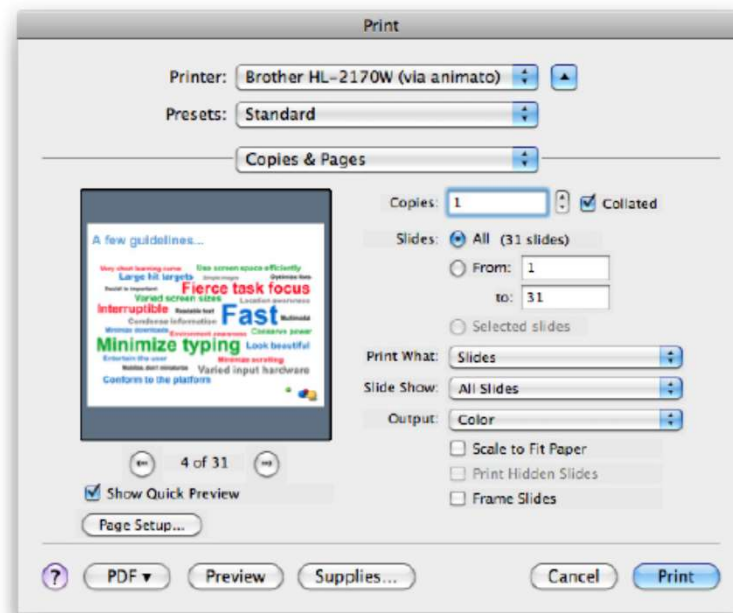
Pametne stavke u meniju



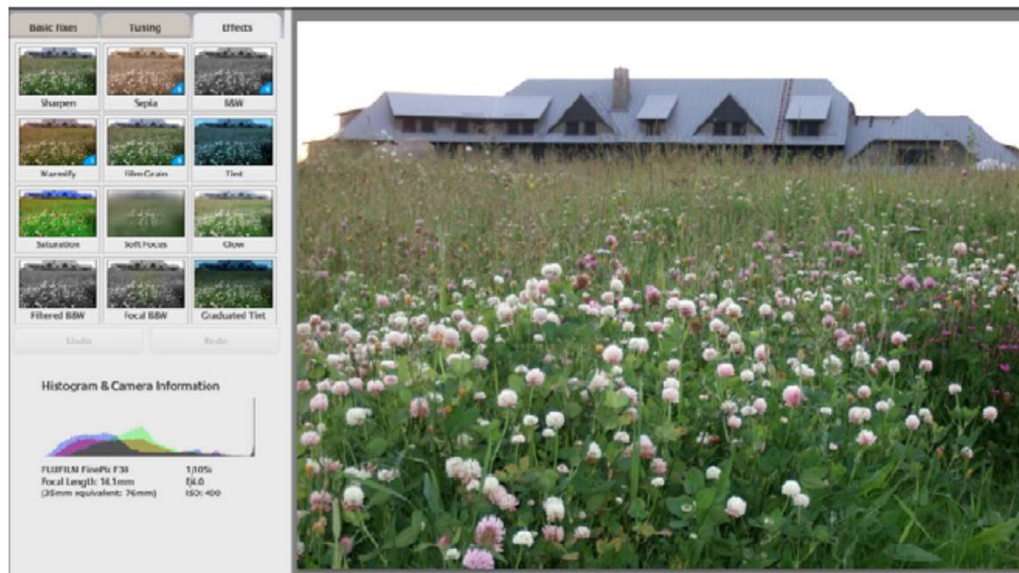
Pametne stavke u meniju



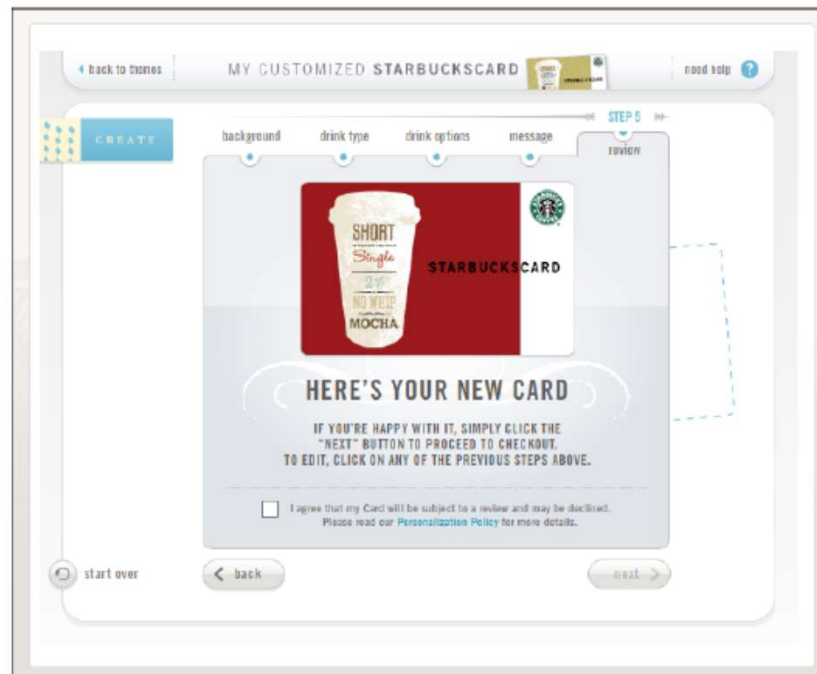
Prikaz



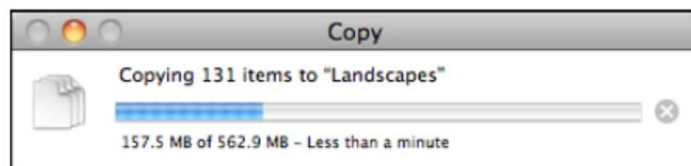
Prikaz



Prikaz



Indikator napretka




Indikator napretka

File	Size	Remove?
DSCF2078.JPG	3.02 MB	🗑️
DSCF2123.JPG	3.09 MB	🗑️
DSCF2132.JPG	3.05 MB	🗑️
DSCF2140.JPG	3.05 MB	🗑️
DSCF2150.JPG	3.13 MB	🗑️

5 files [Add More](#) Total: 15.35 MB


File	Size	
DSCF2078.JPG	3.02 MB	✅
DSCF2123.JPG	3.09 MB	🔴
DSCF2132.JPG	3.05 MB	
DSCF2140.JPG	3.05 MB	
DSCF2150.JPG	3.13 MB	

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DSCF2078.JPG	3.02 MB	✅
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DSCF2132.JPG	3.05 MB	🔴
DSCF2140.JPG	3.05 MB	🔴
DSCF2150.JPG	3.13 MB	

5 files Total: 15.35 MB

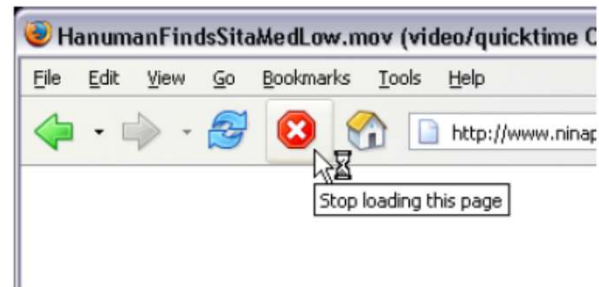


File	Size	
DSCF2078.JPG	3.02 MB	✅
DSCF2123.JPG	3.09 MB	✅
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DSCF2140.JPG	3.05 MB	✅
DSCF2150.JPG	3.13 MB	✅

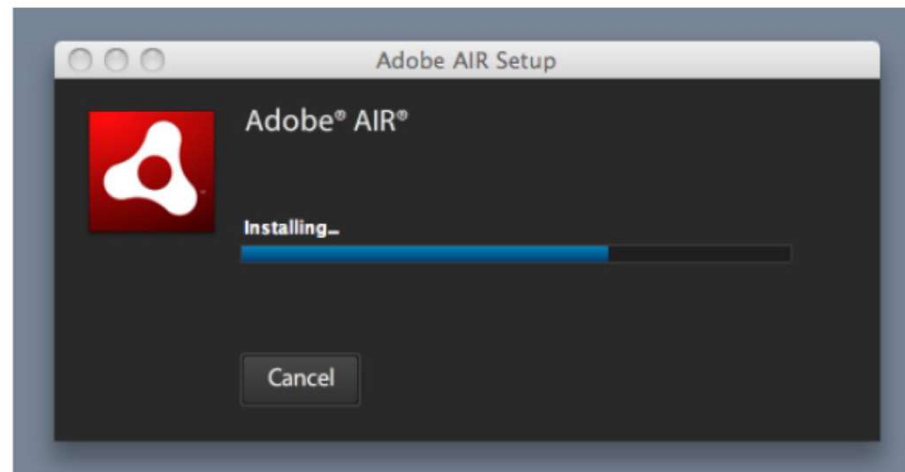
5 files Total: 15.35 MB

🟢 Finished! Next: [add a description](#), perhaps?

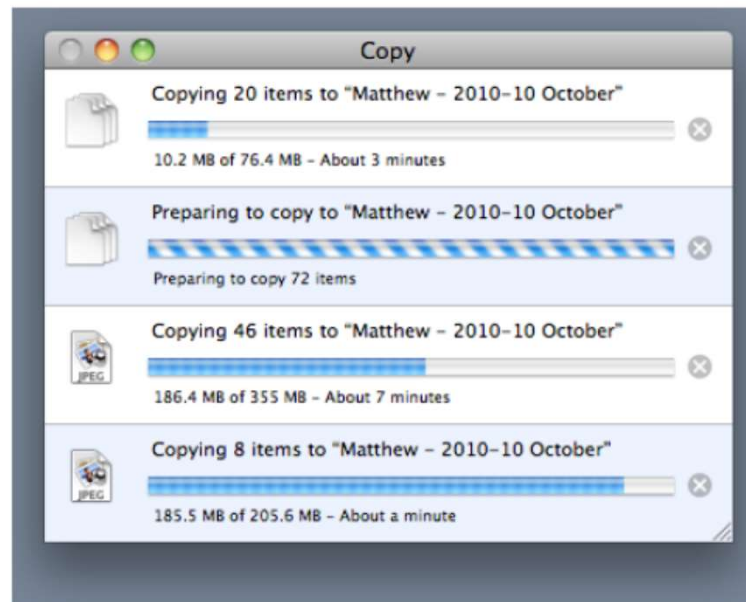
Mogućnost otkazivanja



Mogućnost otkazivanja

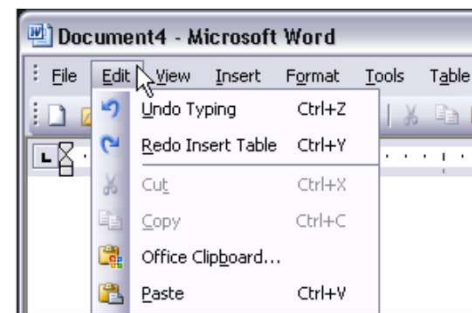
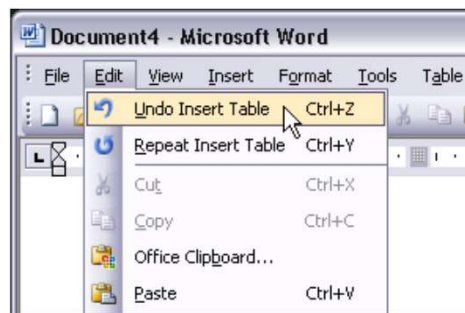


Mogućnost otkazivanja



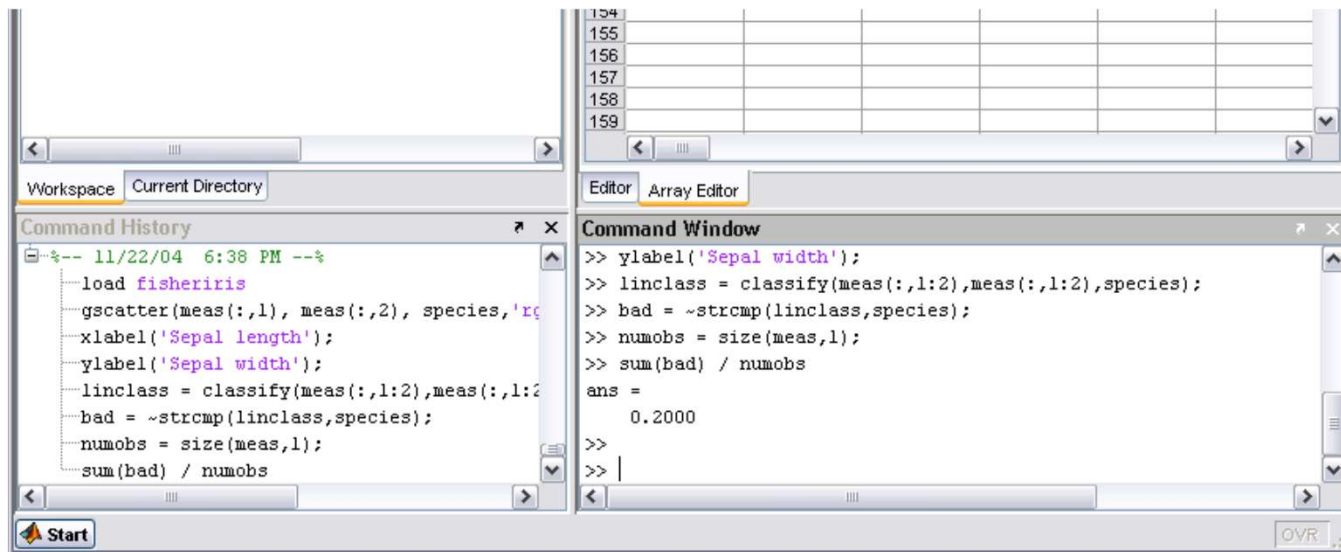
Povratak na predhodna stanja

- Word

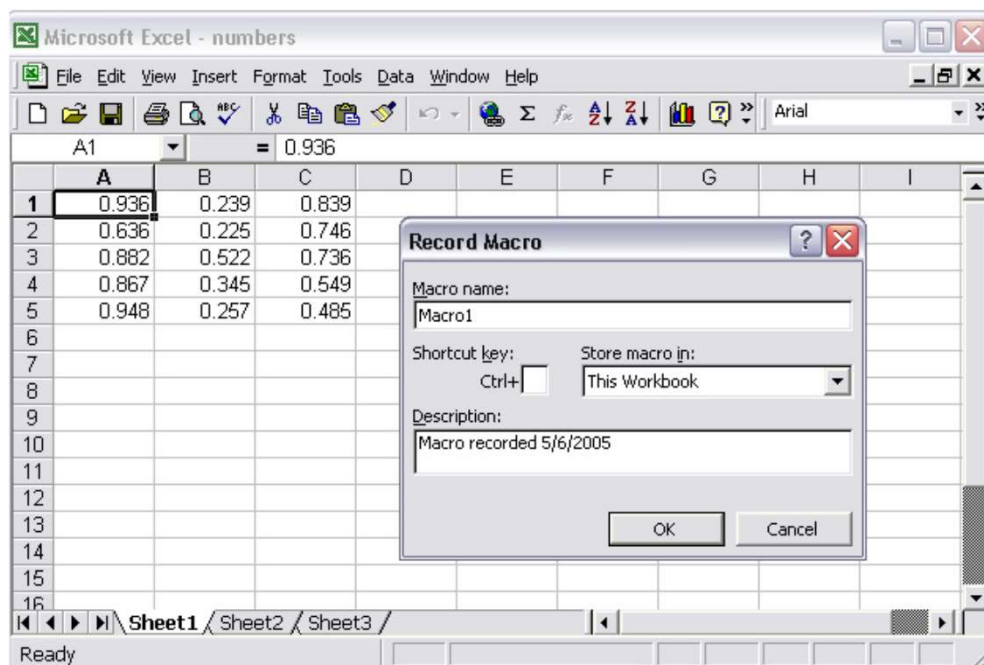


Istorija komandi

- Vidljivo kojim redom su akcije preduzimate



Makroi



Forme i kontrole - Uzorci

1. Forgiving Format (Bilo koji format za unos)
2. Structured Format (Strukturirani format)
3. Fill-in-the-Blanks (Popunjavanje praznina)
4. Input Hints (Savet za unos)
5. Input Prompt (Predlog za unos u okviru polja)
6. Password Strength Meter (Merenje jačine lozinke)
7. Autocompletion (Automatsko dovršavanje)
8. Dropdown Chooser (Padajuće opcije)
9. List Builder (Pravljenje liste)
10. Good Defaults (Dobro odabrane podrazumevane vrednosti)
11. Same-Page Error Messages (Poruke o grešci)

Bilo koji format za unos

Enter Zip, City or Place (e.g. Disney World) **FIND WEATHER**

TRUPOINT Exact weather for any address or landmark in the U.S. [> TRY IT](#)

Strukturirani format

Name:*

Company:

Serial Number:*

Strukturirani format

- Može da ima formu brojeva koje je potrebno uneti

Telephone number	(504) 555-1212	(504) 555 - 1212
Credit card number	1021 1234 5678 0000	1021 1234 5678 0000
Date	12/25/2004	12 / 25 / 2004
ISBN number	0-1950-1919-9	0 - 1950 - 1919 - 9

Date:	March	15	, 2005	00	:	11	(24 hour time)
Subject:	<input type="text"/>						

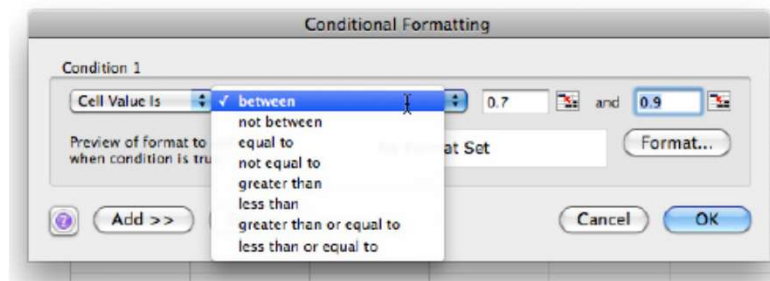
Popunjavanje praznina

Foreign Exchange

One in

Popunjavanje praznina

- Excel



Popunjavanje praznina

Price

Show items priced from \$ to \$

Show results

With PayPal accepted [Learn more](#)

Listings

Number of bids from: to:

Multiple item listings from: to:

Items near me

Items within miles of Zip or Postal Code

or

Savet za unos

Full name	<input type="text"/>
	<small>Your full name will appear on your public profile</small>
Username	<input type="text"/>
	<small>Your public profile: http://twitter.com/ USERNAME</small>

Savet za unos

Pages: All
 Current page
 Selection
 From:
to:
 Page range:

Enter page numbers and/or page ranges separated by commas (e.g. 2, 5-8)

Savet za unos

Security Question:	<input type="text" value="Choose a question ..."/>
	If you forget your password we will ask for the answer to your security question. Learn More
Answer:	<input type="text"/>
Recovery email:	<input type="text"/>
	This address is used to authenticate your account should you ever encounter problems or forget your password. If you do not have another email address, you may leave this field blank. Learn More

Savet za unos


Email address (must already exist)	<input type="text"/>	You'll use this address to log in to Blogger and other Google services. We'll never share it with third parties without your permission.
Retype email address	<input type="text"/>	Type in your email address again to make sure there are no typos.
Enter a password	<input type="password"/> Password strength:	Must be at least 8 characters long.
Retype password	<input type="password"/>	
Display name	<input type="text"/>	The name used to sign your blog posts.
Email notifications	<input type="checkbox"/> Send me feature announcements, advice, and other information to help me get the most out of my blog.	
Birthday	<input type="text"/>	MM/DD/YYYY (e.g., "10/8/2010")
Word Verification	 <input type="text"/> &	Type the characters you see in the picture to the left.
Acceptance of Terms	<input type="checkbox"/> I accept the Terms of Service	Indicate that you have read and understand Blogger's Terms of Service

Figure 8-13. Blogger registration page

Savet za unos

Full name ⇨ enter your first and last name
Your full name will appear on your public profile

Name

Gender

Birthday

Country

Postal Code

i Your postal code lets Yahoo! provide you with content that is relevant to where you live.

First name:

Last name:

Country/region:

State:

ZIP code:

Your name is how your friends, co-workers, family, and others can identify you throughout Windows Live.

Predlog za unos u okviru polja

Name

Sign Up

It's free and takes less than 30 seconds.

 I agree to the [Terms of Use.](#)

Submit

Sign Up

It's free and takes less than 30 seconds.

 I agree to the [Terms of Use.](#)

Submit

Merenje jačine lozinke

Choose a password:	<input type="password" value="*****"/>	Password strength:	Good
	Minimum of 8 characters in length.		
Re-enter password:	<input type="password"/>		

Merenje jačine lozinke

[Password strength:](#) Too short

*****|
[Password strength:](#) Weak

[Password strength:](#) Fair

*****|
[Password strength:](#) Good

*****|
[Password strength:](#) Strong

Merenje jačine lozinke

Password:
Six-character minimum with no spaces
[Learn how to create a strong, memorable password.](#)

Password strength: Weak

Password:
Six-character minimum with no spaces
[Learn how to create a strong, memorable password.](#)

Password strength: Medium

Password:
Six-character minimum with no spaces
[Learn how to create a strong, memorable password.](#)

Password strength: Strong

Yahoo! ID and Email @ yahoo.com

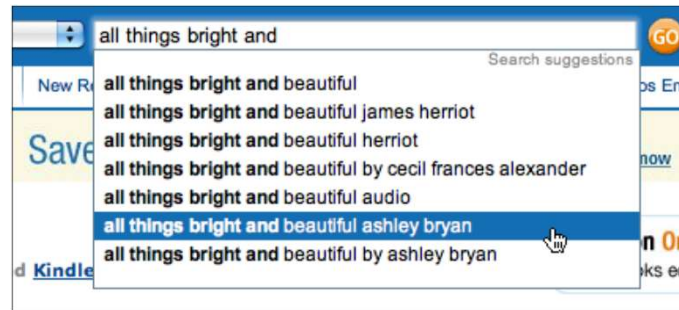
Password Password Strength

Capitalization matters. Use 6 to 32 characters, no spaces, and don't use your name or Yahoo! ID.

Re-type Password

◀ To make your password more secure:
- Use letters and numbers
- Use special characters (e.g., @)
- Mix lower and uppercase

Automatsko dovršavanje

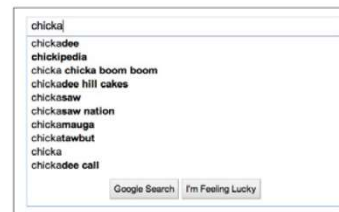
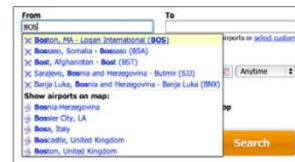
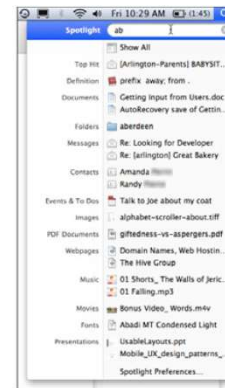
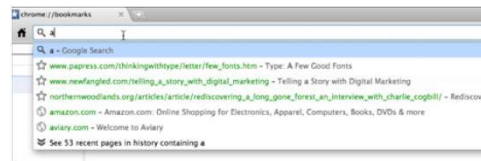


Automatsko dovršavanje

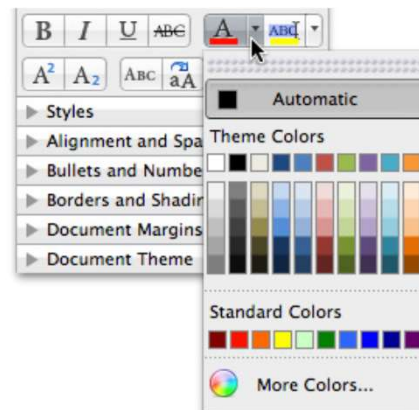
```
CMainFrame* pMainFrame = new CMainFrame;
if (!pMainFrame->LoadFrame(IDR_MAINFRAME))
    return FALSE;
pMainFrame->
m_pMainWnd = pMainFrame;
// call DragAcceptFiles only if there's a suffix
// In an MDI app, this should occur immediately after setting
// Parse command line for standard shell commands, DDE, file op
CCommandLineInfo cmdInfo;
ParseCommandLine(&cmdInfo);
// Dispatch commands specified on the command line. Will return
// app was launched with /Register, /Unregister, /Unregserver or
if (!ProcessShellCommand(cmdInfo))
    return FALSE;
// The main window has been initialized, so show and update it
pMainFrame->ShowWindow(m_nCmdShow);
```

```
CMainFrame* pMainFrame = new CMainFrame;
if (!pMainFrame->LoadFrame(IDR_MAINFRAME))
    return FALSE;
pMainFrame->EnableDocking(CF_ALLOW_DOCKING);
m_pMainWnd = pMainFrame;
// call DragAcceptFiles only if there's a suffix
// In an MDI app, this should occur immediately after setting
// Parse command line for standard shell commands, DDE, file op
CCommandLineInfo cmdInfo;
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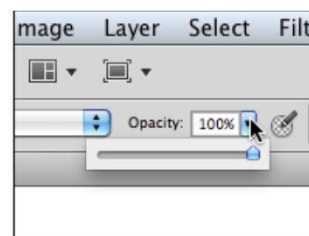
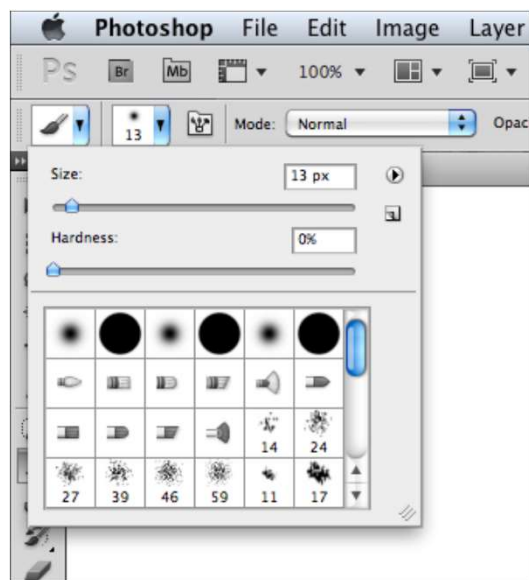
Automatsko dovršavanje



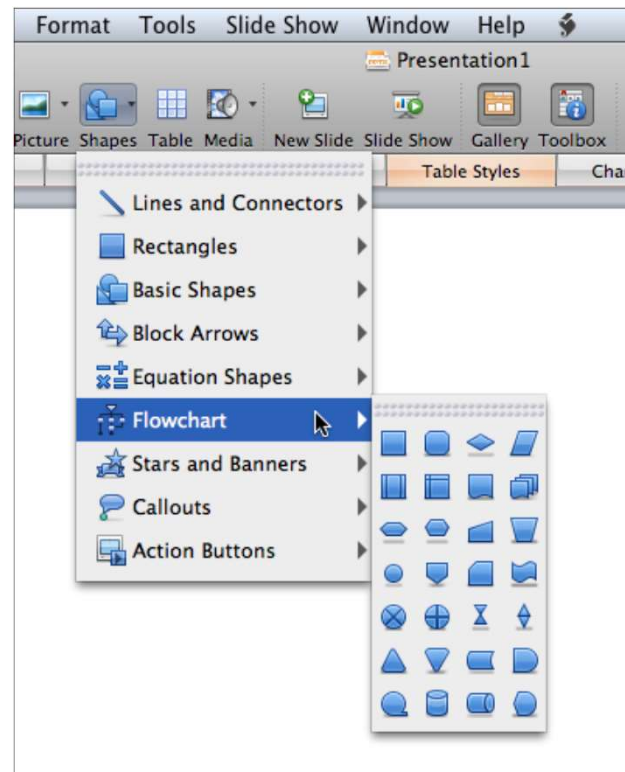
Padajuće opcije



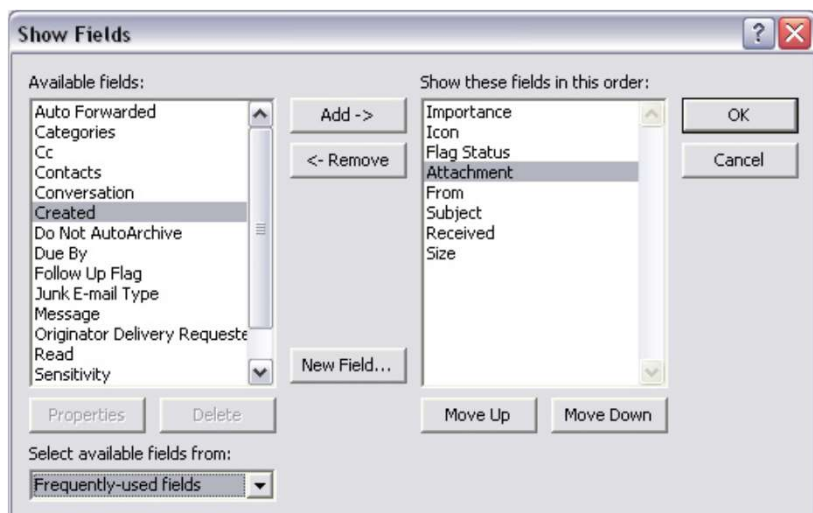
Padajuće opcije



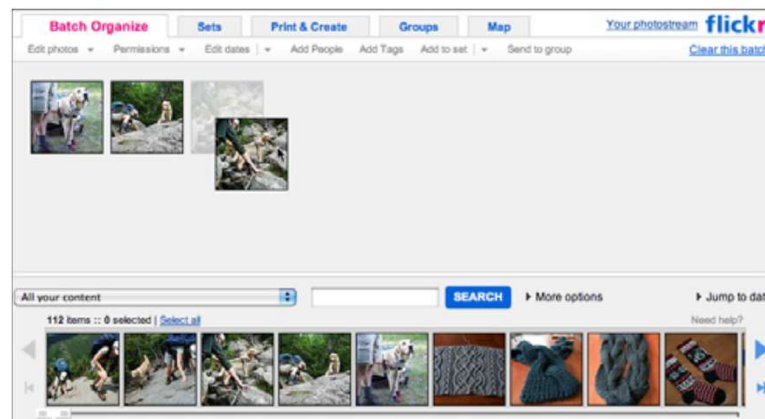
Padajuće opcije



Pravljenje liste



Pravljenje liste





Dobro odabrane podrazumevane vrednosti



Round-trip One-way Multi-city Weekend



From
BOS
 Include nearby airports or [select custom](#)

To

 Include nearby airports or [select custom](#)

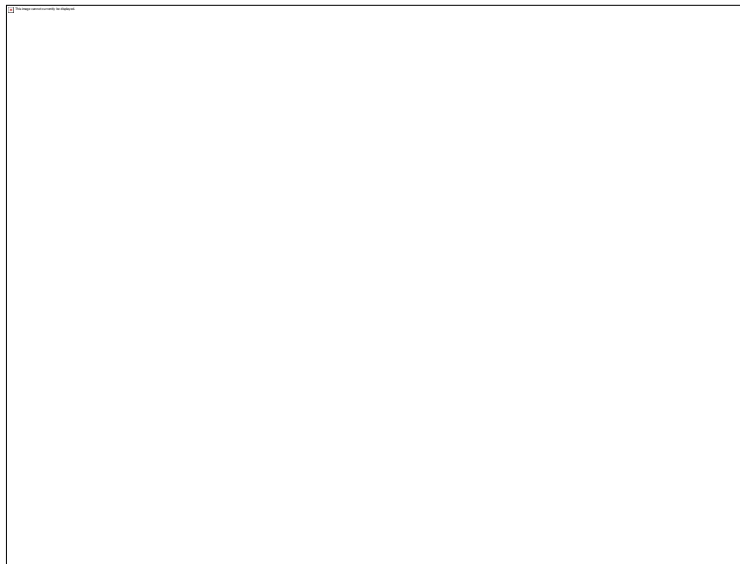
Depart ([flexible](#))
10/26/2010  Anytime 
Tue, Oct 26 2010

Return ([flexible](#))
11/02/2010  Anytime 
Tue, Nov 2 2010

1 traveler  Economy  Prefer Nonstop

Compare hundreds of travel sites at once.

Dobro odabrane podrazumevane vrednosti



Poruke o grešci

 **The email addresses you entered do not match. Please try again.**

Start Your 1 Month Free Trial
[Free trial offer details.](#)

Email

Confirm Email

Password

Poruke o grešci


Full name ✓ ok
Your full name will appear on your public profile


Username must not be blank
Your public profile: <http://twitter.com/ USERNAME>

Password

Email ✓ ok

Let others find me by my email address
Note: Email will not be publicly displayed

 [Sign Up](#) [Log In](#)

create a new account 

Your Email ✘
Please enter your email address.

Confirm Email OK

Poruke o grešci

Size


Color

Qty

Size

Color

Qty

 Please select a size.

Size

Color

Qty

This item has been placed in your bag. [\(Low quantity\)](#)

PITANJA?