

INTERAKTIVNA MULTIMEDIJA

P9

doc. dr. Matej Zajc



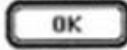
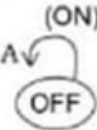

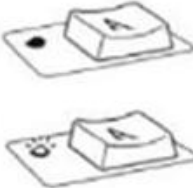
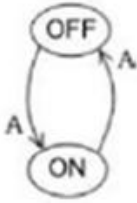


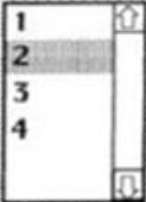
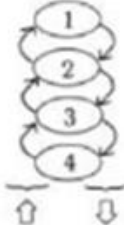
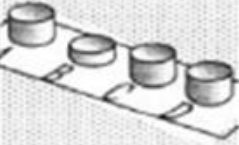
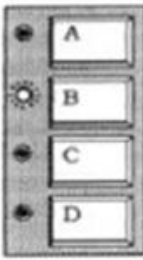

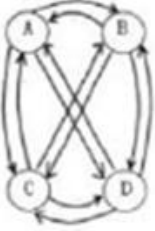



control	mechanical	electronic	virtual	state diagram
mono-stable				
bi-stable			<input type="checkbox"/> R <input checked="" type="checkbox"/> R	
four stable states, linear graph				
four stable states, complete graph				
continuous (analogue)				

Figure 7.28 Transition from real to virtual controls giving five examples

QWERTY

- ❑ 1870 Christopher Latham Sholes
- ❑ Uporaba: tipkarski stroj: Remington
- ❑ Pozicija črk upočasni uporabnika
- ❑ Pogosto uporabljane črke so narazen





The popular RIM BlackBerry (<http://www.blackberry.com>) shown here on the left demonstrated that many people could use a reduced-size keyboard on a regular basis; users typically type with one finger or with both thumbs. The Nokia device in the middle shows that non-English-speaking countries may use different keyboard layouts (here, a French AZERTY keyboard). On the right, a larger keyboard uses the longer dimension of the device and can be slid back into the device when not needed (<http://www.nokia.com>).



The virtual keyboard of the Apple iPhone gains precision by allowing finger repositioning and then activates on lift-off

The virtual keyboard of the Apple iPhone gains precision by allowing finger repositioning and then activates on lift-off

Razpoznava pisave

Write these characters on the Left side of the writing area

A B C D E Capital Letters
 F G H I J
 K L M N O
 P Q R S T
 U V W X Y

back
space space tab return • ,

←	→	↶	↷	•	↵
---	---	---	---	---	---

! ? ! & @ "

!	?	!	&	@	"
---	---	---	---	---	---

Write these characters on the Right side of the writing area

0 1 2 3 4²
 5 6 7 8 9
 ~ / \ ()

N	/	\	()
---	---	---	---	---


+ - * • =

1+2	-	1X2	•	=
-----	---	-----	---	---

Accented Characters
 Follow letter on Left with accent on Right.

/ \ ~ •• ^ °

/	\	N	••	^	°
---	---	---	----	---	---

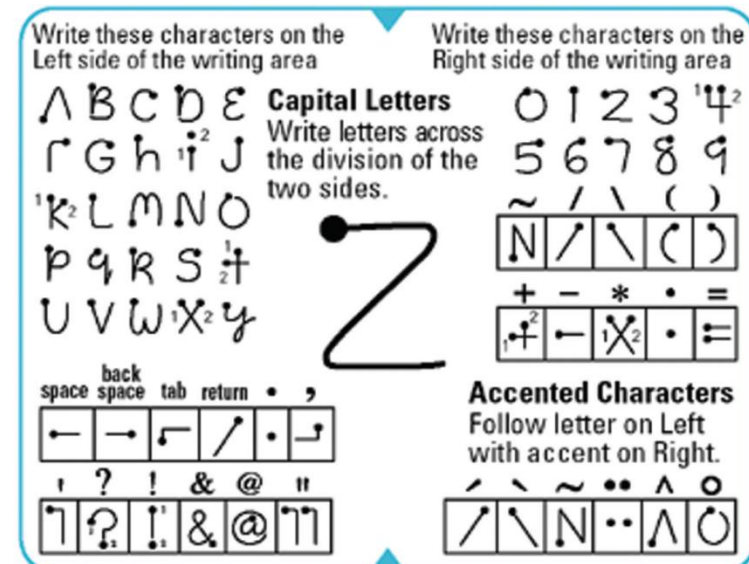


Another method is to handwrite on a touch sensitive surface, typically with a stylus using Graffiti® on the Palm devices

- 1. korak: zapis brez razpoznave: črnilo

- Načrtovalski kompromis:
 - ▣ hiter vnos (PARC) – zanesljiv vnos (Palm)

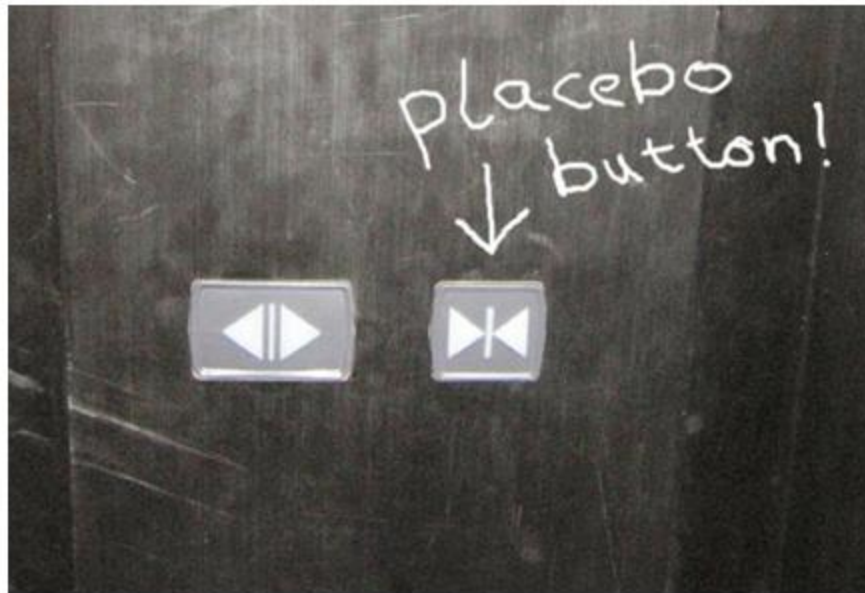
- 2. korak: poenostavljeni znaki



Tuesday, September 22, 2009

by: [Jasper](#)

Placebo buttons provide the illusion of control



Placebo buttons are 'false positives'. They're design elements that look like controls, but that actually don't do anything except to give you the illusion that you are in control. Both the [NextNature](#) and [Design With Intent](#) blog provide an interesting discussion on the subject. See also this 2004 story in the NYT on [placebo buttons at pedestrian crossings](#).

[picture from [NextNature](#)]

Modeliranje z UML

- UML: unified modelling language
 - Jezik za objektno modeliranje
 - Ima definiran nabor diagramskih tehnik
 - diagrami primerov uporabe ("use case diagrams"),
 - diagrami stanj ("state diagrams"),
 - diagrami aktivnosti ("activity diagrams"),
 - diagrami zaporedja ("sequence diagrams"),
 - diagrami sodelovanja ("collaboration diagrams"),
 - razredni diagrami ("class diagrams"),
 - diagrami komponent ("component diagrams"),
 - diagrami razvoja in dobave ("deployment diagrams")

Diagrami primerov uporabe – use case diagrams

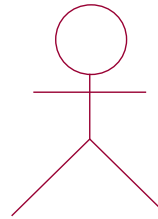
- Zunanji pogled na sistem
 - komunikacija z uporabniki (Projektno vodenje) – določitev uporabniških zahtev
 - Nima neposredne korelacije s arhitekturo sistema in njegovo implementacijo
 - Določajo testne scenarije: kako uporabniki interagirajo s sistemom

- Skupaj z opisi primerov uporabe podajajo vloge uporabnikov sistema in način uporabe
 - Opisuje interakcijo sistema z uporabniki
 - modeliranje **konteksta** sistema in **zahtev**

Use-case diagram: elementi

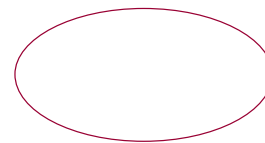
□ Akter (igralec, vloga)

- ▣ Predstavlja vloge, ki jih imajo uporabniki
- ▣ Lahko je uporabnik, drug sistem, naprava, ...
- ▣ Akter izvaja use-case



□ Use-case

- ▣ Primer uporabe: skupina scenarijev, potrebnih, da uporabnik doseže cilj
- ▣ Scenarij je zaporedje korakov, ki predstavljajo interakcijo uporabnika s sistemom
- ▣ Scenarij je ena od možnih poti, ki so na voljo



□ Komunikacija (povezava, konektor) (association)

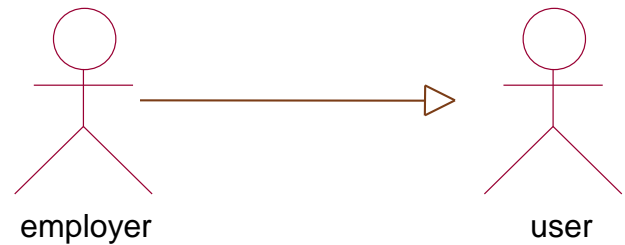
- ▣ Določa kako akter uporablja use-case



- Razmerje odvisnosti (dependency) ----->



- Generalizacija (inheritance) ———>



□ Razmerje odvisnosti (dependency)



Create job list



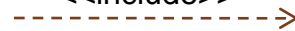
Log-in



□ Stereotipi

□ vsebovanost

<<include>>



□ razširitev



<<extend>>

Withdraw money



Authenticate client



<<include>>



Withdraw money



Print receipt



<<extend>>



□ “include” in “extend” sta razmerji:

□ A extends B izvajanje A lahko vključuje izvajanje B-ja.

□ B includes A izvajanje A vedno vključuje izvajanje B-ja.

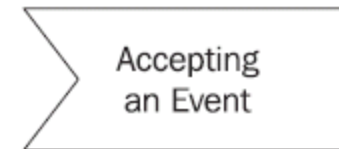
□ Različne vrste razmerij lahko označimo s stereotipom.

Diagram aktivnosti

- Opisuje zaporedje aktivnosti.
 - ▣ aktivnost iz resničnega sveta
 - ▣ izvajanje metode nekega razreda
- Dovoljena je vzporednost izvajanja
- Ni objektno usmerjen (analogija s klasičnim diagramom poteka)

Osnovni gradniki

- Aktivnost



- Povezava



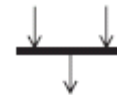
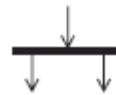
- Pogoji



- Združitev



- Sinhronizacija: FORK / JOIN



- Začetno/končno vozlišče



diagrami stanj – state charts

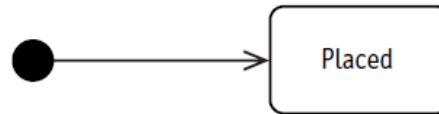
- Končni nabor stanj, kjer je eno stanje začetno
 - Definiran nabor vhodnih signalov
 - Definitan nabor izhodnih signalov
 - Definirani prehodi med stanji
-
- Vedno se nahaja samo v enem stanju, glede na vhode in predhodno stanje sistema

UML: state charts

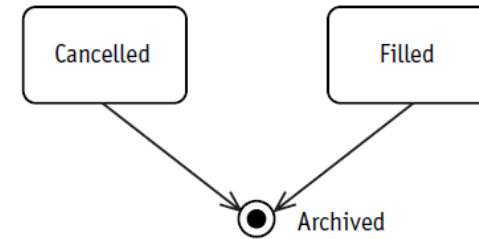
- Stanje



- Začetno stanje



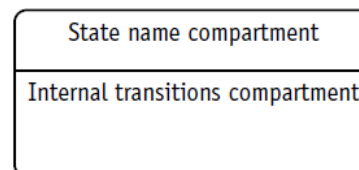
- Končno stanje



- Dogodek (event) /akcija (action)



- Interni dogodki in aktivnosti



Skupinski projekti

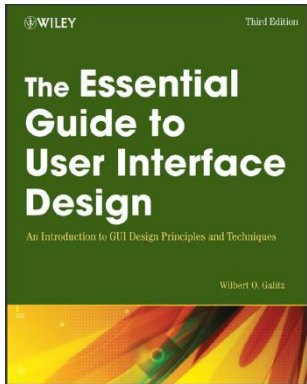
- Člani
- Naslov
- Opis
 - ▣ Flash
 - ▣ Ostala orodja za prototipiranje
- Ob koncu skupina pripravi video prototip.

Skupinski projekti – avditorna vaja

- Pripravite UML diagrame za vaš projekt

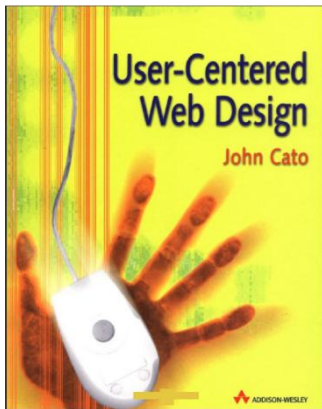


Oblikovanje vmesnika



STEP
3

**Understand the Principles of
Good Interface and
Screen Design**





Popular Tags 



10 Useful Usability Findings and Guidelines

By [Dmitry Fadeyev](#) | September 24th, 2009 | [How-To](#) | [173 Comments](#)

WDL

[Freebies](#) [Inspiration](#) [Resources](#) [Tips](#) [Tools](#) [Tutorials](#)

All

Premium

Minimal Portfolio Themes for WordPress *Buy 1 Get 1 Free*

IN TOOLS

10 Super Useful Tools for Choosing the Right Color Palette

Posted by [Henry Jones](#) on May 26, 2009 | [56 Comments](#)



FriedBeef's Tech
Solving everyday problems with simple technology

7 Best Tools For Working With Fonts



Introduction to Good Usability

Stick to the Rules

One of the most important things to remember when designing a site is that the wheel has already been invented. Odds are, even as an experienced designer, you will not be able to design a new sort of interface that actually works well. Not to say that it isn't possible, but it highly unlikely. Being unique and standing out when it comes to interfaces are not always a good thing.

Borrow

Take a look at some of the bigger sites. Usually, a lot of time and money is spent on making them and usually (not always) they are applying common sense. Take notes on how others do it.

You are Less Interesting Than you Think

There are more than 100 million sites on the internet. People don't have all the time in the world to take a look at yours. Therefore, be brief and to the point. As the cliché goes: Less is more.

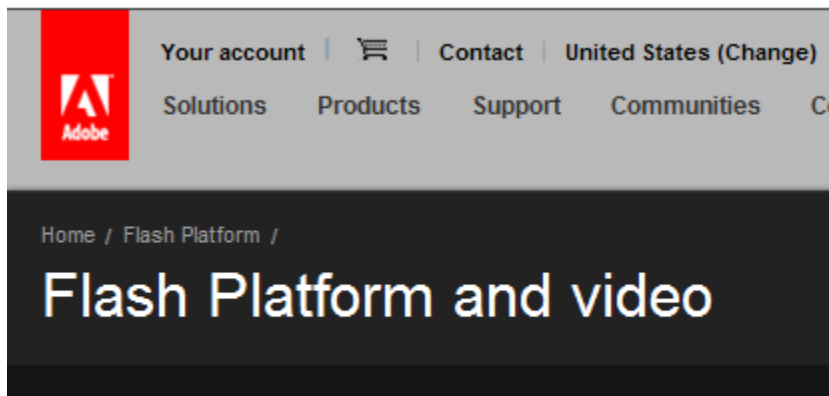
Drobtinice (breadcrumbs)

- Drobtinice (breadcrumbs)
 - Nudijo dodatna pomoč pri navigaciji
 - Labele naj imajo ista imena kot lokacije
 - Trenutna stran naj nima povezave
- Primer: Amazon

[Books](#) > [Computers & Internet](#) > [Graphic Design](#) > [Interface Design](#)

Showing 1 - 12 of 2,554 Results

- Primer: Adobe



Zavijki (tabs)

□ Zavijki

- Ena vrstica
- Kratke labele
- Aktivni zavijek razviden

The screenshot shows the LinkedIn 'Contacts' page. At the top, there is a navigation bar with the LinkedIn logo and menu items: 'People', 'Jobs', 'Answers', and 'Companies'. On the right side of the top bar, there are links for 'Account & Settings', 'Help', 'Sign Out', and 'Language'. Below the top bar, there is a search bar with a dropdown menu set to 'Search People' and a 'Search' button. The main content area is titled 'Contacts' and features a tabbed interface with the following tabs: 'My Connections', 'Imported Contacts', 'Profile Organizer', and 'Network Statistics'. To the right of these tabs are links for 'Add Connections' and 'Remove Connections'. Below the tabs, there is a section for 'Connections' with a checkbox for 'Show contacts with new connections' and an 'Advanced Options' button. It also displays 'Showing 114 of 114 connections.' and '7 outstanding sent invitations'. On the left side of the page, there is a sidebar menu with 'Home', 'Groups' (with sub-items like 'NEM Summit - Towards Future Media Internet', 'The Official IEEE Group', and 'University of Westminster Alumni Association'), and 'Profile' (with sub-items like 'Edit My Profile', 'View My Profile', and 'Recommendations'). On the right side, there is a section for 'Jobs by LinkedIn Members' with links for 'Manager, Programs & Education', 'Count Me In For Women's Economic Independence, Greater New York City Area', and 'New York City Area'.

The screenshot shows the LinkedIn search bar and navigation tabs. At the top, there is a navigation bar with the LinkedIn logo and a welcome message: 'Welcome, Peter [Sign Out]'. On the right side of the top bar, there are links for 'Account & Settings', 'Inbox', and 'Expand Your Network'. Below the top bar, there is a navigation bar with tabs: 'Home', 'People', 'Jobs & Hiring', 'Services', 'Answers', 'My Profile', and 'My Contacts'. Below the navigation bar, there is a search bar with a dropdown menu set to 'People' and a 'Go' button. The search bar contains the text 'Enter keyword, name, company or title'. To the right of the search bar, there is a link for 'Advanced Search'. Below the search bar, there is a section for 'Name search:' with a text input field and a 'Search' button. The text 'Last name required' is displayed below the input field.

Povezave




□ Povezave (link)

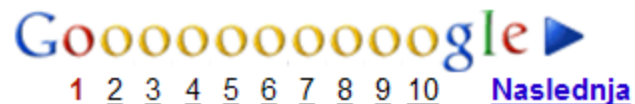
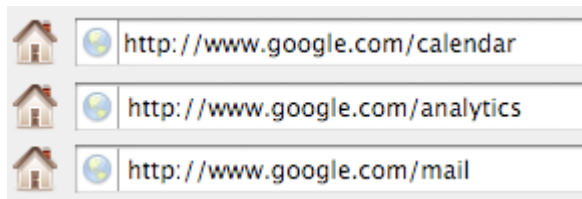
- Modra barva
- Dodatne informacije
- Preusmeritev

[Multimedia](#) - Wikipedia, the free encyclopedia

Multimedia is media and content that uses a combination of different content forms. The term can be used as a noun (a medium with multiple content forms) or ...

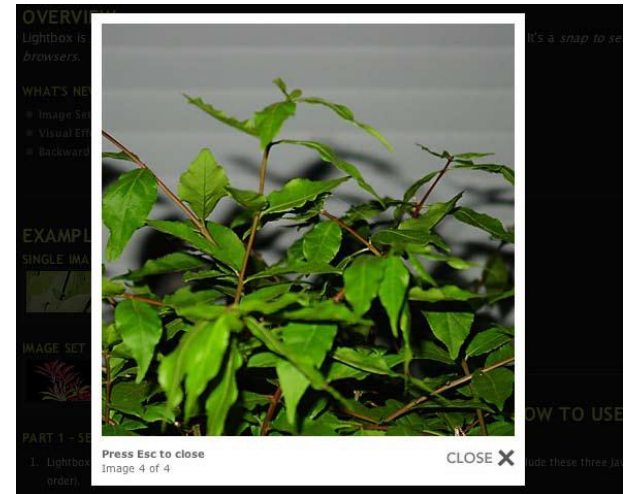
en.wikipedia.org/wiki/Multimedia - [Cached](#) - [Similar](#) -   

52. [^] Australian Film Commission. What are Australians Watching?, *Free-to-Air, 1999–2004* TV 
53. [^] It's an Honour - Symbols - Australian National Anthem  and DFAT - "The Australian National Anthem" ; (2002 (updated 2005)) "National Symbols ", *Parliamentary Handbook of the Commonwealth of Australia*, 29th Edition.
54. [^] Department of Immigration and Citizenship 



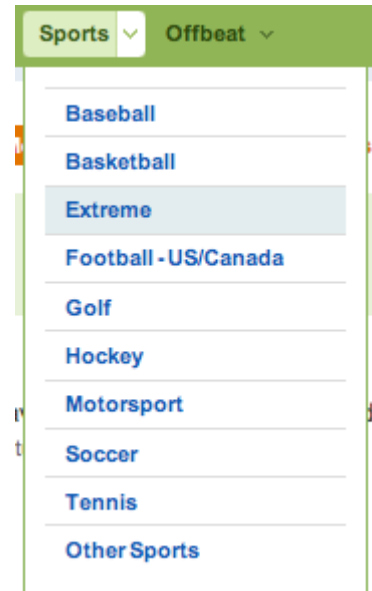
Overlay

- Minimalna raba
- Kjer nujna uporabniška reakcija



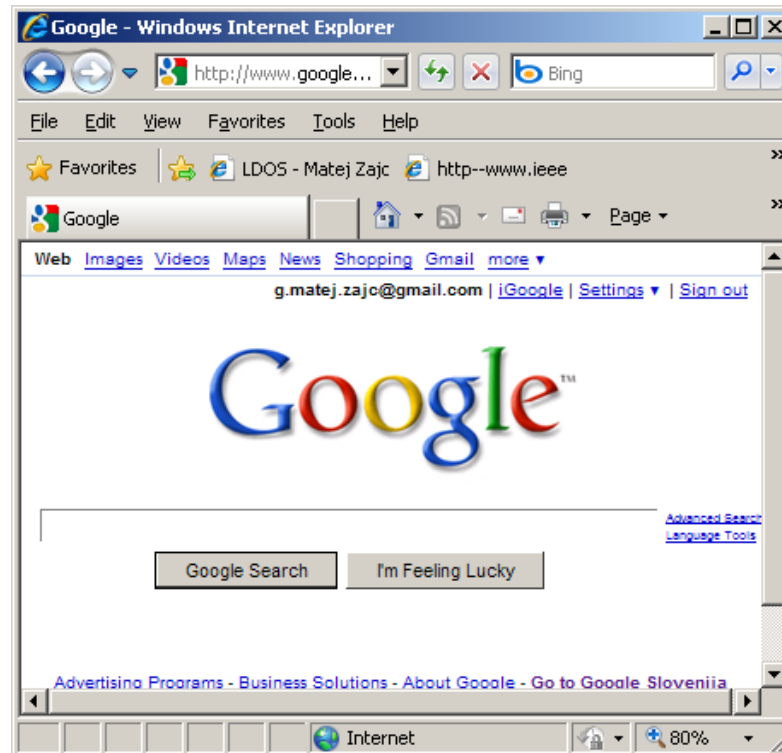
Menu

- Struktura menujev naj sledi operacijskemu sistemu
- Poimenovanje
- Prekrivanje vsebine
- Gnezdenje ni priporočljivo



Scroll

- Pomik: gor-dol
- Sledi operacijskemu sistemu
- Skrij ko niso potrebne
- Gnezdenje



Connections

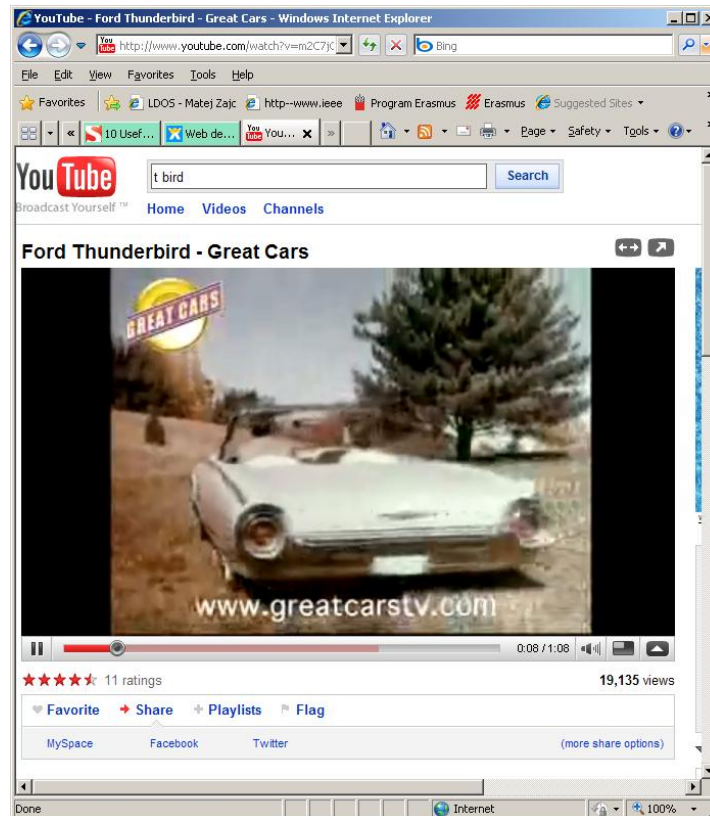
Options

Invitations

Connections

Video

- Kontrolna konzola
- Autoplay?
- Format
- Animacije





Popular Tags 

10 Useful Usability Findings and Guidelines

By [Dmitry Fadeyev](#) | [September 24th, 2009](#) | [How-To](#) | [173 Comments](#)

10 Useful Usability Findings and Guidelines

By Dmitry Fadeyev | September 24th, 2009 | How-To | 173 Comments

1. Form Labels Work Best Above The Field

See 21 reasons why you'll love Tumblr →

Email address

Password

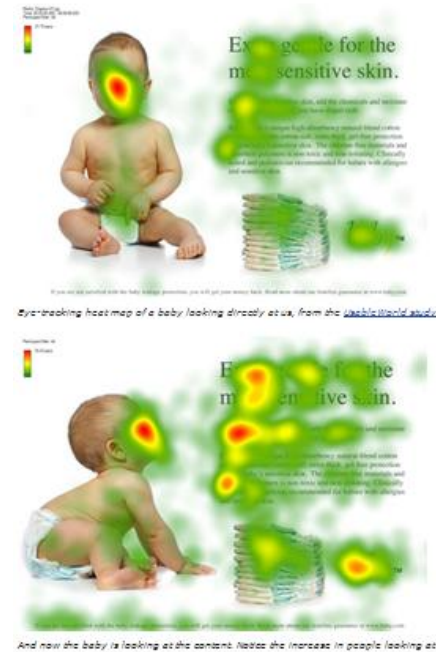
URL (you can change this at any time)

.tumblr.com

Sign up and start posting!

Tumblr features a simple and elegant sign-up form that adheres to UX Matter's

2. Users Focus On Faces



10 Useful Usability Findings and Guidelines

By Dmitry Fedorov | September 24th, 2009 | How-To | 173 Comments

3. Quality Of Design Is An Indicator Of Credibility



We don't know if [fever](#) app is any good, but the sleek user interface and visuals make a great first impression.

4. Most Users Do Not Scroll



[Basecamp](#) makes great use of space. Above the fold (768 pixels high), it shows a large screenshot, tagline, value proposition, call to action, client list, videos and short feature list with images.

10 Useful Usability Findings and Guidelines

By Dmitry Fedozov | September 24th, 2009 | [How-To](#) | [173 Comments](#)

5. Blue Is The Best Color For Links



Google keeps all links on its website blue for a reason: the color is familiar to most users, which makes it easy to locate.

6. The Ideal Search Box Is 27-Characters Wide



Google's search box is wide enough to accommodate long sentences.

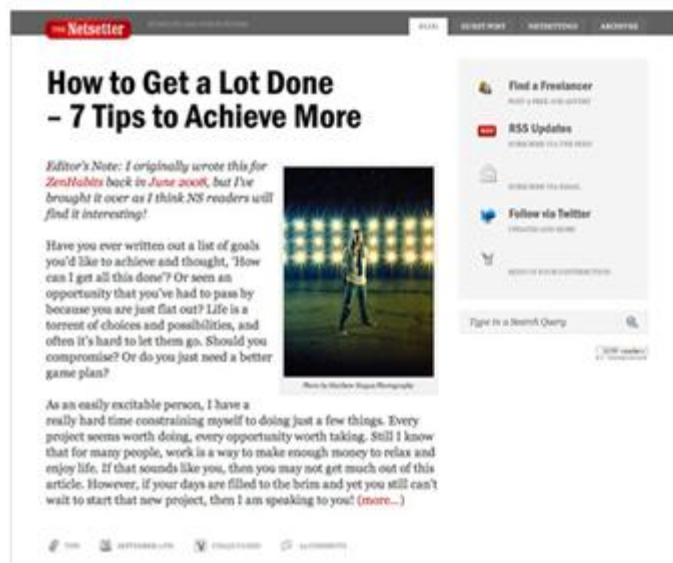


Apple's search box is a little too short, cutting off the query, "Microsoft Office 2008."

10 Useful Usability Findings and Guidelines

By Dmitry Fedorov | September 24th, 2009 | How-To | 173 Comments

7. White Space Improves Comprehension



Notice the big content margin, padding and paragraph spacing on [The Netsetter](#). All that space makes the content easy and comfortable to read.

8. Effective User Testing Doesn't Have To Be Extensive

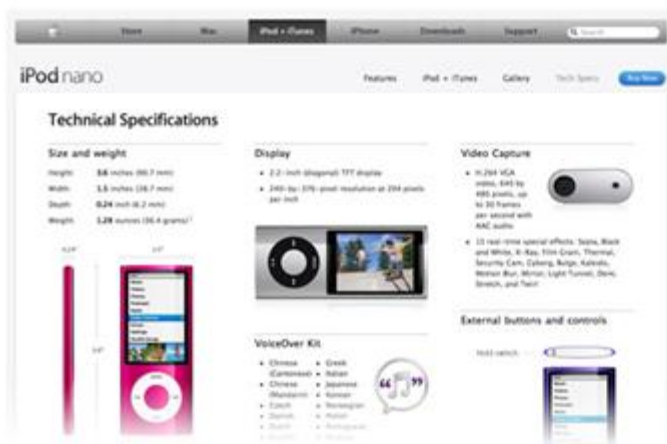


Source: [Jakob Nielsen's AlertBox](#)

10 Useful Usability Findings and Guidelines

By Dmitry Fedorov | September 24th, 2009 | [How-To](#) | [173 Comments](#)

9. Informative Product Pages Help You Stand Out



Apple provides separate "Tech Specs" pages for its products, which keeps complicated details away from the simpler marketing pages, yet provides easy access when they're needed.

10. Most Users Are Blind To Advertising



The square banners on the left sidebar of FlashDen are actually not ads: they're content links uncomfortably close to ad banners and so may be overlooked by some users.