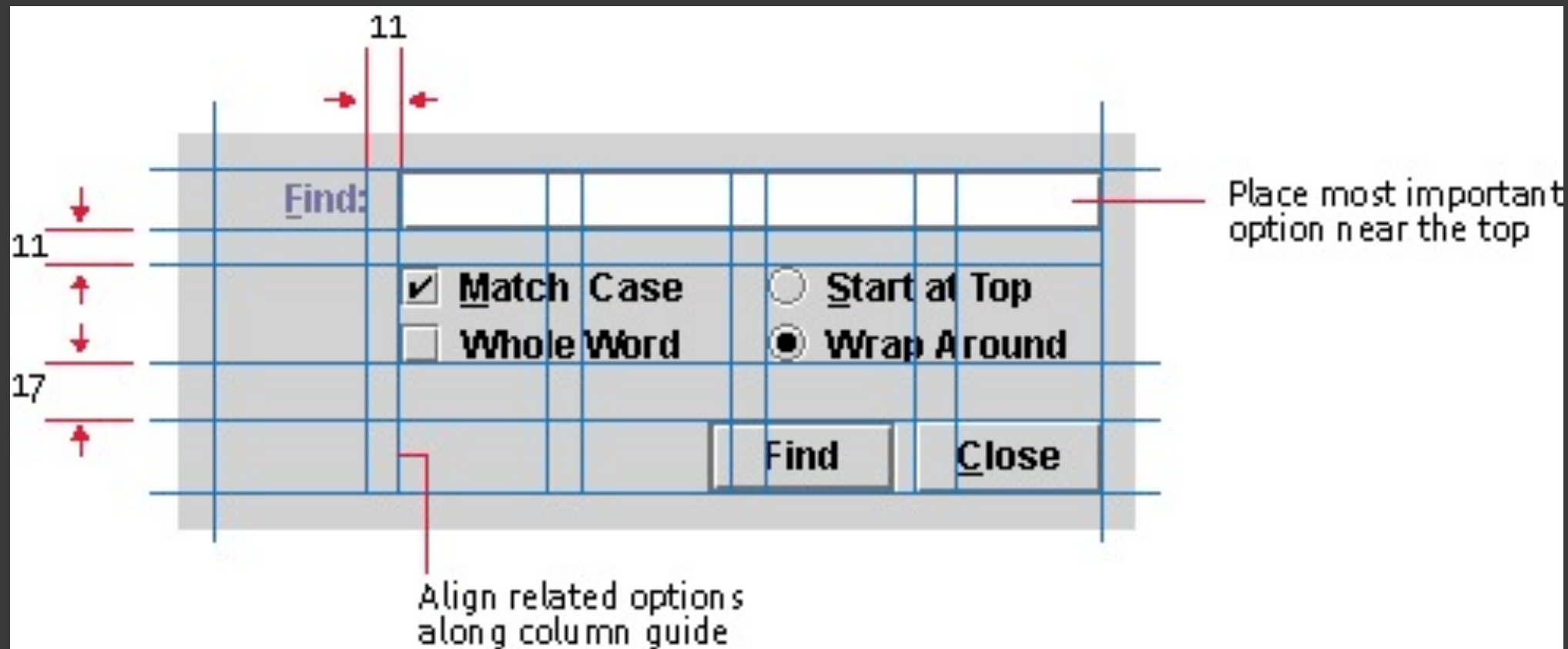


# GRIDS & GROUPING, and ALIGNMENT

**Scott Klemmer**

[www.hci-class.org](http://www.hci-class.org)

# Grid Systems (Java L&F, 2001)



# Jan Tschichold's Bauhaus Revolution



At the Bauhaus in Berlin, 2009

# Grids comprise...

Lorem ipsum dolor sit amet,

consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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Dolor  
Sit Amet  
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**Lorem ipsum dolor sit amet**

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# FATHER'S DAY GIFT GUIDE



If your dad is like one of these celebrity dads, we've got the perfect (last minute) gift for you to get him!

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Listen to the journey of rap's legacy with old and new school artists

### 'THE ART OF RAP' PREMIERE

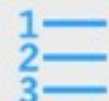
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**EXCLUSIVE: TRAVIS PORTER INTERVIEW**  
Started here, now compared to Beastie Boys [READ ►](#)

#### WHAT'S HOT

**THREADS THURSDAY: SELENA GOMEZ**  
Turns up the heat, Katy Perry does Halloween?! [LOOK ►](#)

#### AROUND HERE

**FANSWERS: THAT'S MY BOY**  
ADAM SANDLER & ANDY SAMBERG  
The guys and the cast uncensored [►](#)

**DRAKE VS. CHRIS BROWN**  
Heartpounding footage surfaces online [READ ►](#)

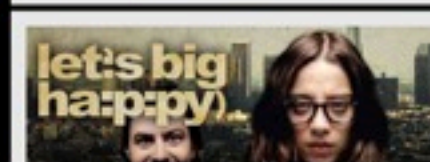
**NEW SHOW REPORT CARD: DALLAS**  
Evil, sexy, soapy fun [READ ►](#)

**ONE TWO WATCH**  
MEET THEM HERE FIRST  
Amazing artists, incredible music [►](#)

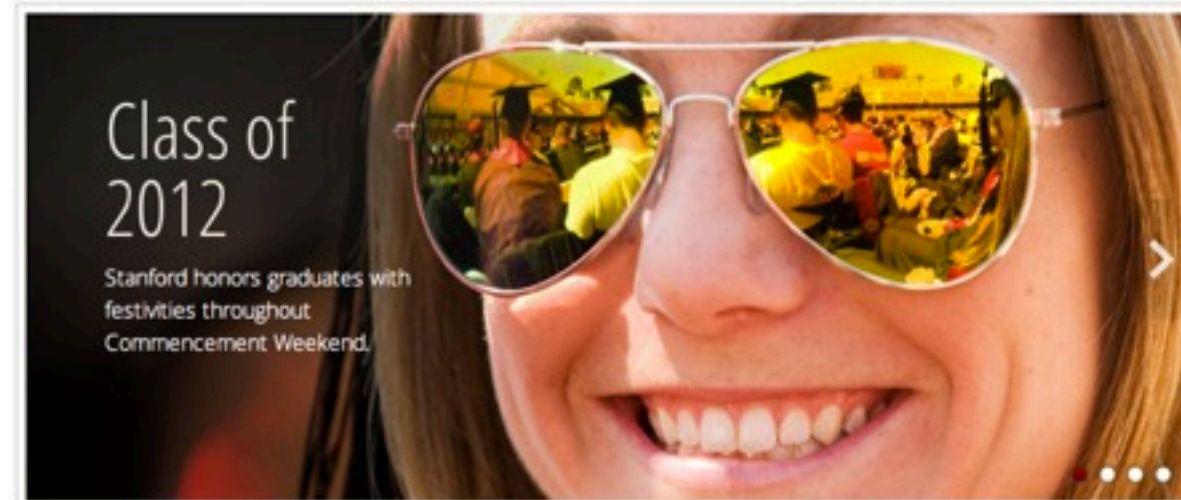
**ADELE**  
Tops charts, makes history tying with Prince [READ ►](#)

**RECAP: DUETS**  
Things get tense after another is sent home [READ ►](#)

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## EVENTS



JUN  
14

MFA Documentary  
Film Screening  
7:30 p.m.

JUN  
15

Robert Huw Morgan,  
organ  
8 p.m.

JUN  
16

Stanford Design  
Program - Final  
Presentations  
1:30 p.m.

EVENT CALENDAR »

## SPORTS



GOSTANFORD.COM »

## UNIVERSITY NEWS



### Economics of the sun

Stanford professor delves into the prospects for cost-competitive solar power.



### Dissecting a classic

Students explore product design through restoration of a '62 Cadillac DeVille.

### MORE STORIES

- » In countries where cooking can kill, trying to promote safer stoves
- » Stanford researchers help visualize California's changing delta
- » Taking the sting out of summer: Advice from Stanford wilderness medicine experts

MORE NEWS »

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- » Faculty & Staff
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- » Visitors
- » Neighbors

## TOP DESTINATIONS



## SCHOOLS & DEPARTMENTS

- » Business
- » Earth Sciences
- » Education
- » Engineering
- » Humanities & Sciences
- » Law
- » Medicine
- » Departments (A - Z)
- » Interdisciplinary Programs

## HOSPITALS

- » Stanford Hospital & Clinics
- » Lucile Packard Children's

## LIBRARIES

- » Stanford University Libraries

## RESEARCH

- » Independent Labs
- » Research Centers

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By DAVID D. KIRKPATRICK  
5 minutes ago

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Post a Comment | Read (189)

The Lede: Reaction in Egypt 5:37 PM ET

## With Justices Set to Rule on Health Law, 2 Parties Strategize

By JONATHAN WEISMAN and MICHAEL D. SHEAR

If the measure is not thrown out, House Republicans plan to force a repeal vote, while top officials at the White House are projecting confidence that the justices will rule in their favor.

Interactive: How the Supreme Court Could Rule

## U.N. Monitors Find Vast Devastation in Syrian Village

By RICK GLADSTONE 3:16 PM ET

Stores were looted and homes abandoned in Al Heffa, besieged for days by Syrian forces, and the smell of death hung in the air, said United Nations monitors.

Syrian Liberators, Bearing Toy Guns 5:45 PM ET

### MORE NEWS

Jury Sides With Costner in BP Spill Lawsuit 18 minutes ago

Mets Sweep the Rays 6:42 PM ET

### VIDEO »

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## CAMPAIGN 2012



Doug Mier/The New York Times; Kirk Green/The New York Times



## Candidates Go Head to Head on Economy

By HELENE COOPER and MICHAEL BARBARO 57 minutes ago

President Obama acknowledged that the election would turn on the divergence between him and Mitt Romney, who was also in Ohio, on how to achieve economic revival.

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Romney Says Obama's Actions Don't Match Words

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By JOHN NOBLE WILFORD

Paintings on cave walls in Spain are far older than previously thought — some of them more than 40,000 years old, scientists said.



## Merkel Stresses Limits to Germany's Strength

By NICHOLAS KULISH and PAUL GEITNER 46 minutes ago

Chancellor Angela Merkel told German lawmakers the country cannot prop up the faltering euro zone.

Switzerland and Britain Gird Against the Storm 8:05 PM ET  
Norris: Conspiracy Theories Fly | Graphic: The Crisis Now

## At U.S. Airports, a Building Boom Takes Hold

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A federal jury had convicted R. Allen Stanford of 13 out of 14 counts of fraud in connection with a global scheme.

### ON THE BLOGS

On Par: Live Blog on the U.S. Open  
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## SundayReview

WILLIAM J. BROAD

## News Analysis: Iran's High Card at the Nuclear Negotiation Table

Iran has increased uranium enrichment and is now producing a form close to bomb grade.

## OPINION »

Kristof: Hugs From Iran | Persian Translation  
Editorial: Jamie Dimon  
Greenhouse: Proxy War?  
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Taking Note: Gingrich

## MARKETS »

As 9:05 PM ET

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A look at the offerings in the 2012 Human Rights Watch Film Festival.



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Interview: Lynn Shelton  
Scriptless in Seattle

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## House Hunting in ... Italy

It's a buyers' market in Italy, where house prices have steadily declined since 2010.

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Doug Mills/The New York Times; Kirk Irwin for The New York Times

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Washington needs to change its negotiation strategy in next week's nuclear talks with Iran.

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Sports  
moments ago

## Woods Plays First Round With Precision

By BILL PENNINGTON



Harry How/Getty Images

Tiger Woods, playing with Phil Mickelson and Bubba Watson, showed who was in charge with a one-under par 69 in the featured pairing of the first round of the 112th United States Open.

U.S.  
moments ago

## Senate Panel Blocks Rules on Seasonal Jobs

By THE ASSOCIATED PRESS

The vote would delay rules designed to make it more difficult for businesses like seafood processors to exploit foreign workers and to get more Americans into seasonal jobs.

N.Y. / Region  
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## Parlors Face Age-Limit Bill Over Tanning by Teenagers

By ERIC P. NEWCOMER

Teenagers under 17 would be able to get suntans only the old-fashioned way under a bill working its way through the New York State Legislature.

Opinion  
moments ago

## Ground Zero Cancers

Adding 50 cancers to the list of illnesses covered by a health fund was the right thing to do because we have an obligation to help those harmed by exposure at ground zero.

Business Day  
moments ago

## Smithfield Foods' Profit Drops on Lower Margins for Pork

By THE ASSOCIATED PRESS

The pork producer's net income fell to 49 cents a share from 59 cents a share last year.

Business Day  
moments ago

## Anything-but-Ordinary Mom Pitches for Chobani Yogurt

By STUART ELLIOTT

Chobani, the market leader in Greek yogurt in the United States, is advertising its new children's product with a campaign that features the former Olympic Jennie Finch.



Sports  
moments ago

## Armstrong Seemingly Readies for Battle

By JULIET MACUR





## World »

- **New Political Showdown in Egypt as Court Invalidates Parliament**



- Libya Refuses to Release Hague Staff in Custody
- Russian Official Apologizes for Threatening Journalist

## Business Day »

- **Europe Braces for Greek Vote — and Maybe More**

- Switzerland and Britain Gird Against the Storm
- High & Low Finance: As Europe's Currency Union Frays, Conspiracy Theories Fly

## Opinion »

- **Op-Ed Columnist: Hugs From Iran**



- Editorial: Mr. Dimon on the Hill
- Op-Ed Contributor: Give Obama Elbow Room on Iran

## U.S. »

- **In the Facebook Era, Reminders of Loss if Families Fracture**



- With Justices Set to Rule on Health Law, 2 Parties Strategize
- Church Battles Efforts to Ease Sex Abuse Suits

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- **Time Inc. to Sell Its Magazines on Apple's Newsstand**



- Nokia to Cut 10,000 Jobs and Close 3 Facilities
- Bits Blog: Google Wants Love and 100 Other Things

## Arts »

- **Art Review: Islands Buffeted by Currents of Change**



- Living in the Past Is a Full-Time Gig
- Critic's Notebook: Heroes, Villains and the Invisible

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- **Obama Says Election Will Shape the Economy for Years**



- Romney Assails Obama for Favoring Words Over Action
- Campaign Aid Is Now Surging Into 8 Figures

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- **Mets 9, Rays 6: Mets Get Just Enough Hitting to Sweep the Rays**



- Mets Say Wright (and Scorer) Erred
- Burnett Brings a Steady Presence to the Pirates

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## N.Y. / Region »

- **Behind Those Cool Squirts in Summer, Many Plumbers**



- After Century-Long Wait, Stage Is Set for Man Daring to Cross the Falls

## Obituaries »

- **F. Herbert Bormann Dies at 90; Helped Discover Acid Rain Threat**



- Henry Hill, Mobster and Movie Inspiration, Dies at 69

## Theater »

- **Theater Review: Drawing New Lines in a Romantic Triangle**



- Two Journeys Into O'Neill, via E-Mail
- Arts & Leisure: Mad as Hell, and



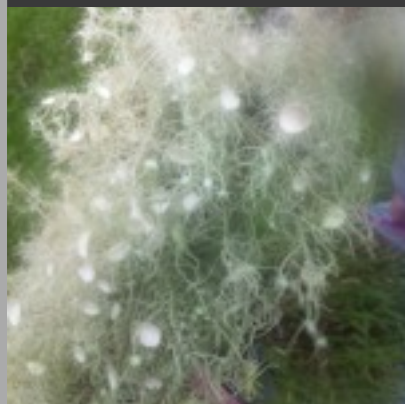
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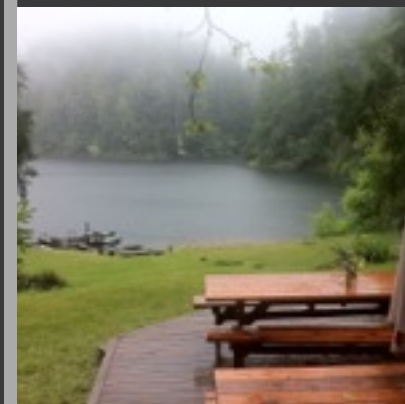
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text is faster to skim  
(in places that read left-to-right)

cs142 **Web Applications**  
*Ousterhout*

cs294h **Interactive Software Design**  
*Mackay*

cs294s **Paradigm Shifts in Mobile &  
Social Computing Systems**  
*Lam*

cs376 **Research Topics in Human-Computer Interaction**  
*Klemmer*

cs377d **d.compress - Designing Calm**  
*Moraveji, Pea*

cs379l **Designing Liberation Technology**  
*Cohen, Winograd*

cs402 **Beyond Bits & Atoms: Designing  
Technological Tools**  
*Blikstein*

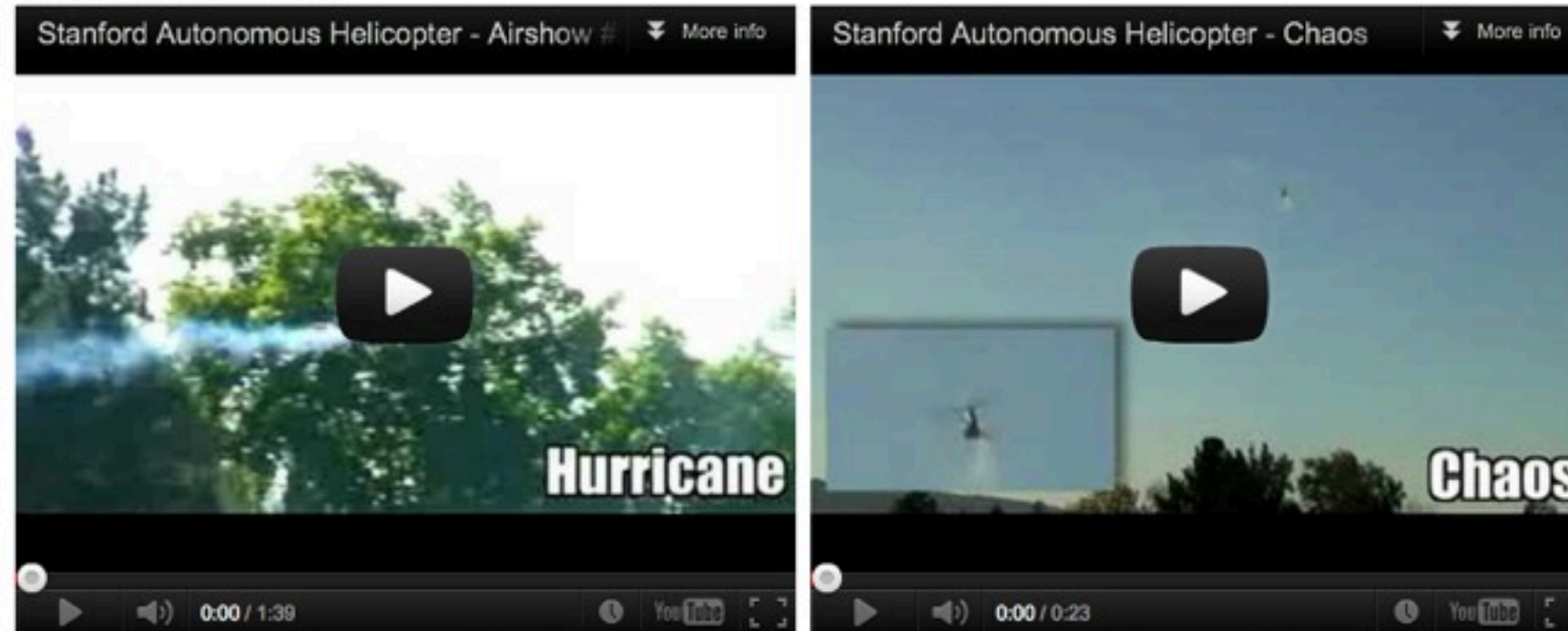
educ222P **Envisioning the Future of Learning** *Gilbert, Mohata*

# STANFORD UNIVERSITY AUTONOMOUS HELICOPTER

## Overview

The goal of this project is to push the state-of-the-art in autonomous helicopter flight: extreme aerobatics under computer control.

## Featured Videos



Autonomous airshow

Autonomous Chaos

More videos (including autorotation) [below](#) or on our [YouTube Channel](#).

## Publications

**Autonomous Helicopter Aerobatics through Apprenticeship Learning**, Pieter Abbeel, Adam Coates, and Andrew Y. Ng. *IJRR*, 2010. [[IJRR](#)] [Dataset](#)

**Learning for Control from Multiple Demonstrations**, Adam Coates, Pieter Abbeel, and Andrew Y. Ng. *ICML*, 2008. [[ps](#), [pdf](#)] [Talk PPT slides](#), [Supplementary Material \(Videos\)](#)  
[Best Application Paper Award](#)

**Autonomous Autorotation of an RC Helicopter**, Pieter Abbeel, Adam Coates, Timothy Hunter, and Andrew Y. Ng. In *International Symposium on Robotics*, 2008. [[pdf](#)] [Supplementary Material \(Videos\)](#)  
[Ben Wegbreit IFRR Student Fellowship Award](#)

**An Application of Reinforcement Learning to Aerobatic Helicopter Flight**, Pieter Abbeel, Adam Coates, Morgan Quigley, and Andrew Y. Ng. In *NIPS 19*, 2007. [[ps](#), [pdf](#)]

**Learning vehicular dynamics, with application to modeling helicopters**, Pieter Abbeel, Varun Ganapathi, and Andrew Y. Ng. In *NIPS 18*, 2006. [[ps](#), [pdf](#)]



# Alignment guides the eye, reducing clutter

- **Avoid slight misalignments**  
they undermine your ability to beacon organization.
- **We ‘automatically’ notice patterns**  
and deviations
- **So when you deviate from a pattern**  
do so strategically
- **And use visual proximity and scale**  
to convey semantic information

When to use top, left,  
and right alignment

# Add an address: right aligned labels

**Add an address**

**Full Name:**

**Address Line1:**

Street address, P.O. box, company name, c/o

**Address Line2:**

Apartment, suite, unit, building, floor, etc.

**City:**

**State/Province/Region:**

**ZIP:**

**Country:**

United States

**Phone Number:**

**Optional Delivery Preferences** ([What's this?](#))

**Address Type:**

Select an Address Type


**Security Access Code:**


For buildings or gated communities

Save & Add Payment Method

Save & Continue

# Account: Left-aligned labels


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### Orders

See & Modify Recent Orders



View, Modify, Track or Cancel an Order

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- [View Your Digital Orders](#)
- [Download Order Reports](#)
- [View Your Kindle Orders](#)

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- [Manage Subscribe & Save Items](#)
- [Manage Magazine Subscriptions](#)
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#### Password

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Credit Cards & Gift Cards

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Password, Prime & E-mail

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#### Kindle Help

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# A brief word on color

- Pay attention to it
- Design in grayscale first
- Keep luminance values from grayscale when moving to color

# Amazon in Grayscale




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Medical Books (7)

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Christian Books & Bibles (1)

Religion & Spirituality (1)

Calendars (1)

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Hardcover (43)

Kindle Edition (9)

HTML (3)

PDF (2)

Books > "Web Form Design"

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Format



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★★★★☆ (33 customer reviews)

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2. 

**Forms that Work: Designing Web Forms for Usability (Interactive Technologies)** by Caroline Jarrett, Gerry Gaffney and Steve Krug (Nov 26, 2008)

★★★★☆ (27 customer reviews)

Formats	Price	New	Used
<b>Paperback</b> Order in the next <b>18 hours</b> to get it by Monday, Jun 18. Only 7 left in stock - order soon. Get \$2 in MP3s. <a href="#">See Details</a>	<del>\$64.95</del> <b>\$43.24</b> <i>Prime</i>	\$29.41	\$25.29
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**Excerpt - Front Cover:** "... Forms that Work Designing Web Forms for Usability -r (\_:C ..." [See a random page](#) in this book.

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Teens (1)  
Crafts, Hobbies & Home (6)  
Literature & Fiction (6)  
Humor & Entertainment (5)  
Comics & Graphic Novels (1)  
Children's Books (2)  
Health, Fitness & Dieting (1)  
Medical Books (7)  
History (5)  
Cookbooks, Food & Wine (1)  
Christian Books & Bibles (1)  
Religion & Spirituality (1)  
Calendars (1)

**Format**  
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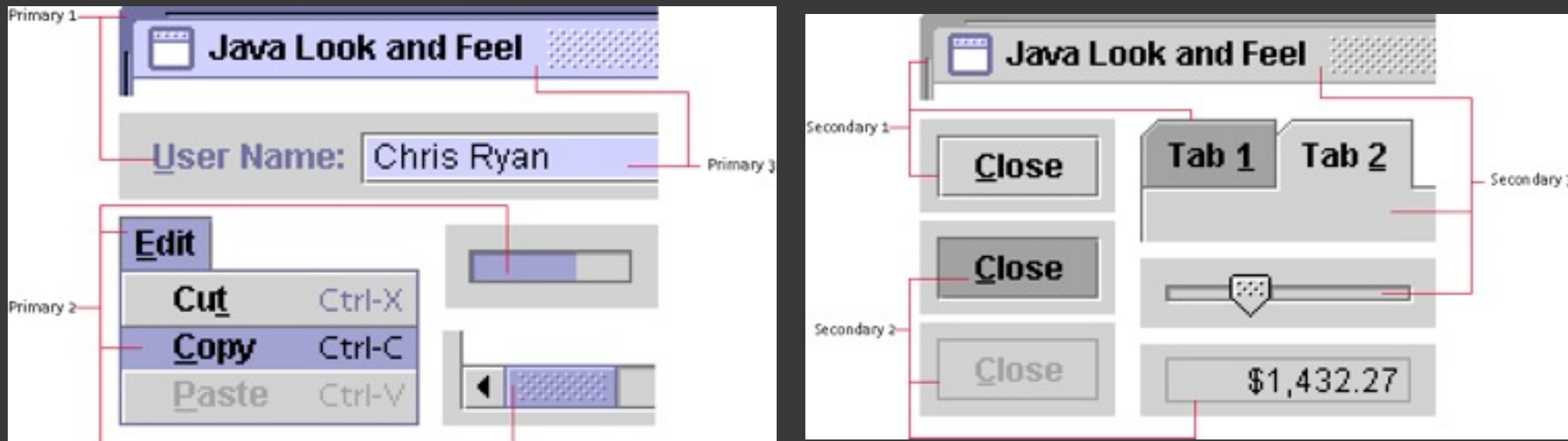
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# Color (Java L&F)



- Six colors in two groups
- Clean, consistent look
- Easy on eyes (mostly gray)

# Make space, guide the eye

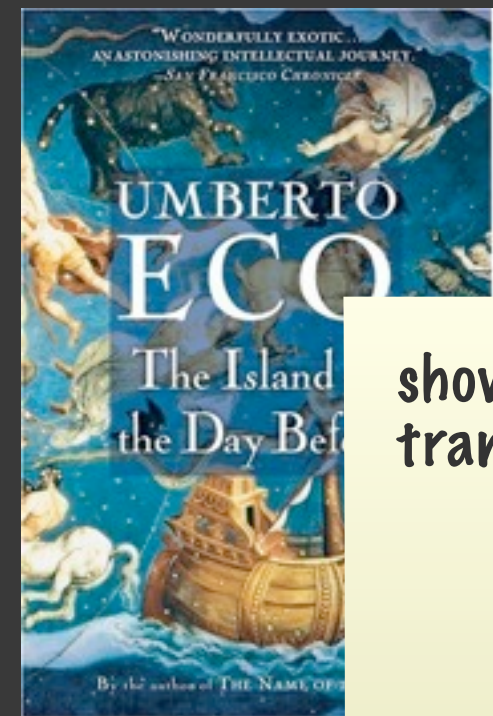
*I take pride withal in my humiliation, and as I am to this privilege condemned, almost I find joy in an abhorrent salvation; I am, I believe, alone of all our race, the only man in human memory to have been shipwrecked and cast up upon a deserted ship.*

THUS, WITH UNABASHED conceits, wrote Roberto della Griva presumably in July or August of 1643.

How many days had he been tossed by the waves, feverish surely, bound to a plank, prone during the hours of light to avoid the blinding sun, his neck stiff, strained unnaturally so as not to imbibe the water, his lips burnt by the brine? His letters offer no answer to this question: though they suggest an eternity, the time cannot have been more than two days, for otherwise he would never have survived the lash of Phoebus (of which he so poetically complains), he, a sickly youth, as he describes himself, a creature condemned by a natural defect to live only at night.

He was unable to keep track of time, but I believe the sea grew calm immediately after the tempest swept him from the deck of the *Amaryllis*, on that makeshift raft a sailor had

I



show book cover  
transformative

# Grids: To learn more...

- Kevin Mullet and Darrell Sano, *Designing Visual Interfaces*
- Luke Wroblewski, *Web Form Design*
- Jan Tschichold, *The New Typography*



