# Designing CSS Layouts for the Flexible Web

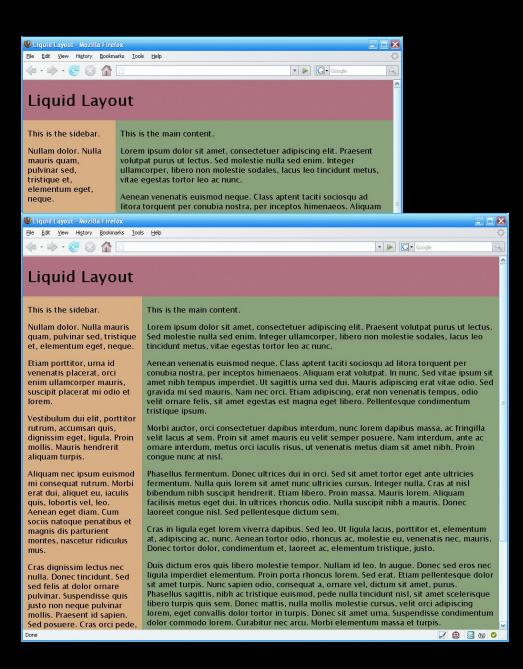
June 11, 2008 Voices That Matter: Web Design Conference **Zoe Mickley Gillenwater** 

# What is flexible design?

- Overall width is not fixed number of pixels
- Liquid (or fluid)
- Elastic
- Hybrid

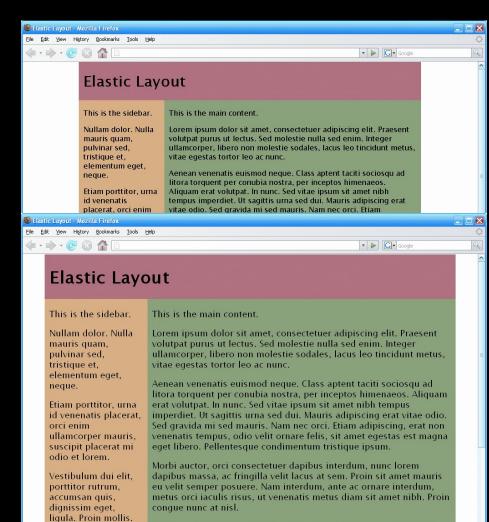
# Liquid

# Width adapts to viewport



## Elastic

### Width adapts to **text size**



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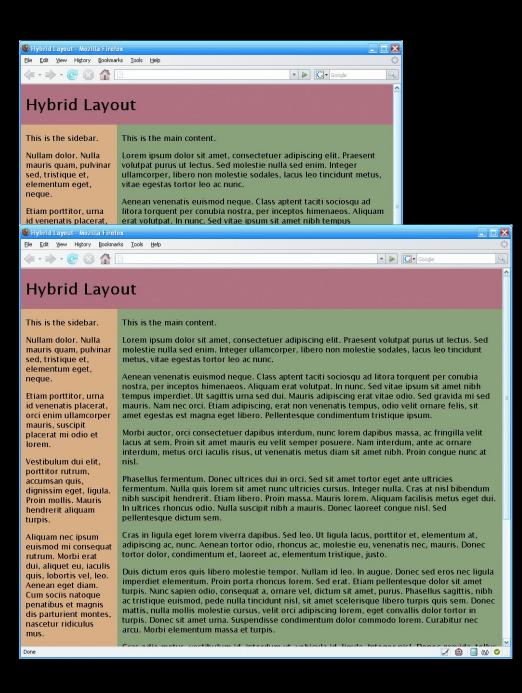
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# Hybrid

Mixture of fixed-width, liquid, and/or elastic for column widths



# Why bother?

- Disclaimer: fixed-width layouts are not evil
- But, flexible layouts have benefits:
  - Take advantage of screen real estate
  - Less chance of horizontal scrollbars to increase usability and readability
  - Respect user preferences
  - Increase accessibility

Image from flickr, "swimming upstream" by tempo

Don't swim upstream if you don't have to

## Design differently from the start

- Not every comp can be turned into liquid or elastic layout
- Learn which design features aren't "flexible-friendly" and how to change them so they are

## Goals of this presentation

# Fixed-width designer:

Make designs more adaptive to user preferences

# Flexible designer:

Know what to watch out for/plan for in comps to make construction easier, layout more robust

### Nondesigner:

Identify problematic design elements to convince designer to change or tweak yourself

## Not just avoiding fixed widths

### Web Designer's Creed:

Thou shalt avoid fixed heights for anything containing text.

# Width affects height

## Liquid:

Change in viewport width

Text wraps differently

Change in number of lines of text

Change in height of block text sits in

### **Elastic:**

Change in font size

Change in height of text characters
Change in height of block text sits in

## Avoid:



### Irregular shapes defining a text area

# Irregular shapes defining a text area **Example:**

#### Recent Comments

- Congrats! halarious video too Lisa!... by ComposeAnalysis
- "Thanks to every one who participated and... by Mostly Lisa
- <sup>66</sup> [...] Contact [...]... by MostlyLisa.com: Lisa Bettany. Canada's Sexy Geek Blog » Blog Archive » And the Vector-sized glory goes to...
- <sup>44</sup> I vote "Not the Fish", just becuase he's... by Grant
- " I'm with you! For the past few days by Dan

#### Recent Posts

- And the Vector-sized glory goes to... 12-03-2008
- [UnDigg] Omg. I had so much fun at SxSW. 12-03-2008
- Xote for the First Annual Vectorama Winner! 10-03-2008
- Don't Mess with my Vectorama! 10-03-2008
- Audition Peep Show #2 08-03-2008

#### about Lisa

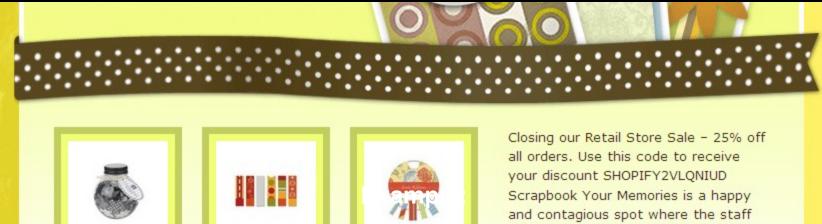
Lisa Bettany lives in Vancouver, BC, Canada. She is a multimedia producer, ... model, actress, blogger, and geek. She mostly comes out at night... mostly.

Read more

Mostly Lisa, www.mostlylisa.com

Site by Coding Monkeys

# Irregular shapes defining a text area **Example:**



Bubbles- Black \$7.99 CAD Silver Lining Rib... \$12.99 CAD

Brunch- Ribbon \$9.99 CAD Scrapbook Your Memories is a happy and contagious spot where the staff are as creative and as fun as it's customers. Expect more of everything: More great products, more c... (More)



Scrapbook Your Memories, http://scrapbookyourmemories.myshopify.com

# Irregular shapes defining a text area **Example:**



Scrapbook Your Memories, http://scrapbookyourmemories.myshopify.com

# Are we stuck with only straight rectangles?



### Irregular shapes defining a text area Solution: Tile irregular pattern

Signup



Simon Wiffen, www.simonwiffen.co.uk

# Irregular shapes defining a text area Solution: Tile straight piece

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WEB D	ESIGN		

Neurotic, Web Design page, http://en.neuroticweb.com/web-design

## Avoid:



# Text matched with images that can't expand

# Text matched with images that can't expand **Example:**



etonDIGITAL, www.etondigital.com

## **Pick the right images**

Image from flickr, "June 10, 2006: Picked!" by Matt McGee

### Text matched with images that can't expand Solution: Masked images



Hom

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#### Sesame Communications, www.sesamecommunications.com

### Text matched with images that can't expand Solution: Masked images

# Use the proper CSS to ensure text has enough space to sit in



### Text matched with images that can't expand Solution: Variable cropping

# CSS technique, but requires designing with right type of images

#### **Case Studies**



East Riding of Yorkshire Council: Play and free-time strategy



East Lindsey District Council: Play Strategy

#### **Case Studies**



East Riding of Yorkshire Council: Play and free-time strategy



East Lindsey District Council: Play Strategy

Erskine Corporation, www.erskinecorp.com

### Text matched with images that can't expand Solution: Variable cropping

### Can stitch together multiple to make longer



A-Z Index Search Support WU



#### Willamette University, www.willamette.edu

### Text matched with images that can't expand Solution: Blend into background





Air Adventure Australia, www.airadventure.com.au

### Text matched with images that can't expand **Solution: Blend into background**





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Defacto, www.defacto-cms.com

### Text matched with images that can't expand Solution: Scalable images CSS technique, but requires designing with right type of images

#### \*2 LA STORIA DEL CASTELLO DI BOLGHERI



Le origini del Castello di Bolgheri risalgono al 1200. Fin da allora proprietà della famiglia dei Conti della Gheradesca. Nella seconda metà del 1700 vengono effettuati restauri e migliorie al palazzo e la costruzione delle cantine. Nel 1895 viene modificata la facciata del castello, con la realizzazione della torre e dei merli così come ancora oggi essa appare. La Storia del Castello

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#### N2 VINO ED OLIO



\* CASTELLO DI BOLCHERI

#### N2 AGRITURISMO



#### \* PODERE SAN SEBASTIANO

#### NO ED OLIO



#### \* CASTELLO DI BOLCHERI

#### AGRITURISMO



#### \* PODERE SAN SEBASTIANO

Castello di Bolgheri, www.castellodibolgheri.eu

## Avoid:



### Fixed-width, full-width content

# Fixed-width, full-width content **Example:**

What We Offer

Classes & Programs Personal Training Fitness Center Aquatic Center Child Care Medical Services Nutrition



My successes have been numerous and wonderful, I have lost 20lbs and many inches, I have cut my blood pressure

### **Personal Training**



Quickly and safely achieve your fitness goals under the direct supervision of a qualified fitness professional with Roseville Health & Wellness' personal training programs. Train with some of Northern California's finest degreed and nationally certified professionals to fine-tune your fitness regiment.

Our personal trainers will help you decrease body fat; improve strength and increase coordination, flexibility and muscular balance. You'll learn the correct way to use equipment and the appropriate form and technique necessary to maximize your results.

# Fixed-width, full-width content **Example:**



Roseville Health & Wellness Center, www.rosevillehwc.com

# Fixed-width, full-width content Solution: Non-full-width images





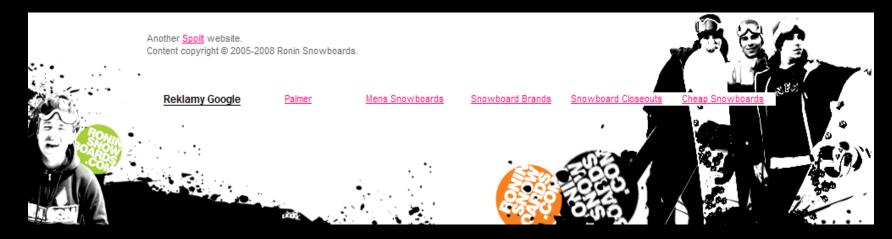
HMA Print Design



Todd Silver Design, www.toddsilverdesign.net

# Fixed-width, full-width content Solution: Composite images





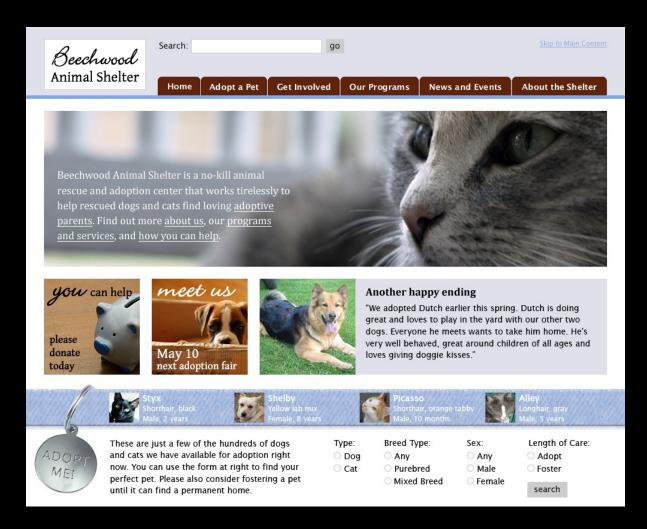
Ronin Snowboards, www.roninsnowboards.com

## Fixed-width, full-width content Solution: Scrollbars for large content

CSS technique using overflow property



## What's wrong with this picture?



## A more flexible-friendly version



Beechwood Animal Shelter is a no-kill animal rescue and adoption center that works tirelessly to help rescued dogs and cats find loving adoptive parents. Find out more about us, our programs and services, and how you can help.





#### Another happy ending

"We adopted Dutch earlier this spring. Dutch is doing great and loves to play in the yard with our other two dogs. Everyone he meets wants to take him home. He's very well behaved, great around children of all ages and loves giving doggie kisses."





Shorthair, black



Picasso



Alley



Longhair, gray Male, 5 years

These are just a few of the hundreds of dogs and cats we have available for adoption right now. You can use the form below to find your perfect pet. Please also consider fostering a pet until it can find a permanent home.



search

0 MEI

## How it might look narrower



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Styx Shorthair, black Male, 2 years

Shelby Yellow lab mix Female, 8 years



Picasso Shorthair, orange tabby



Male, 10 months



These are just a few of the hundreds of dogs and cats we have MEI available for adoption right now. You can use the form below to find your perfect pet. Please also consider fostering a pet until it can find a permanent home.

0

Dog O Cat

Anv OPurebred Mixed Breed

Anv Male Female

## Flexible design inspiration

www.zomigi.com/blog/inspiration-for-flexibleweb-design

## **Questions?**

Zoe Mickley Gillenwater design@zomigi.com www.zomigi.com