It's Never Been A Better Time to Learn Layout CSS

Jen Simmons
Codeland in NYC
May 2018

CSS Layout

CSS for Layout is HARD

CSS for Layout ~~is~~ was HARD

Everything You Know About Web Design Just Changed

Jen Simmons

An Event Apart Seattle

April 2018

“New people are at such an advantage right now.”

– Several Famous Web Heroes

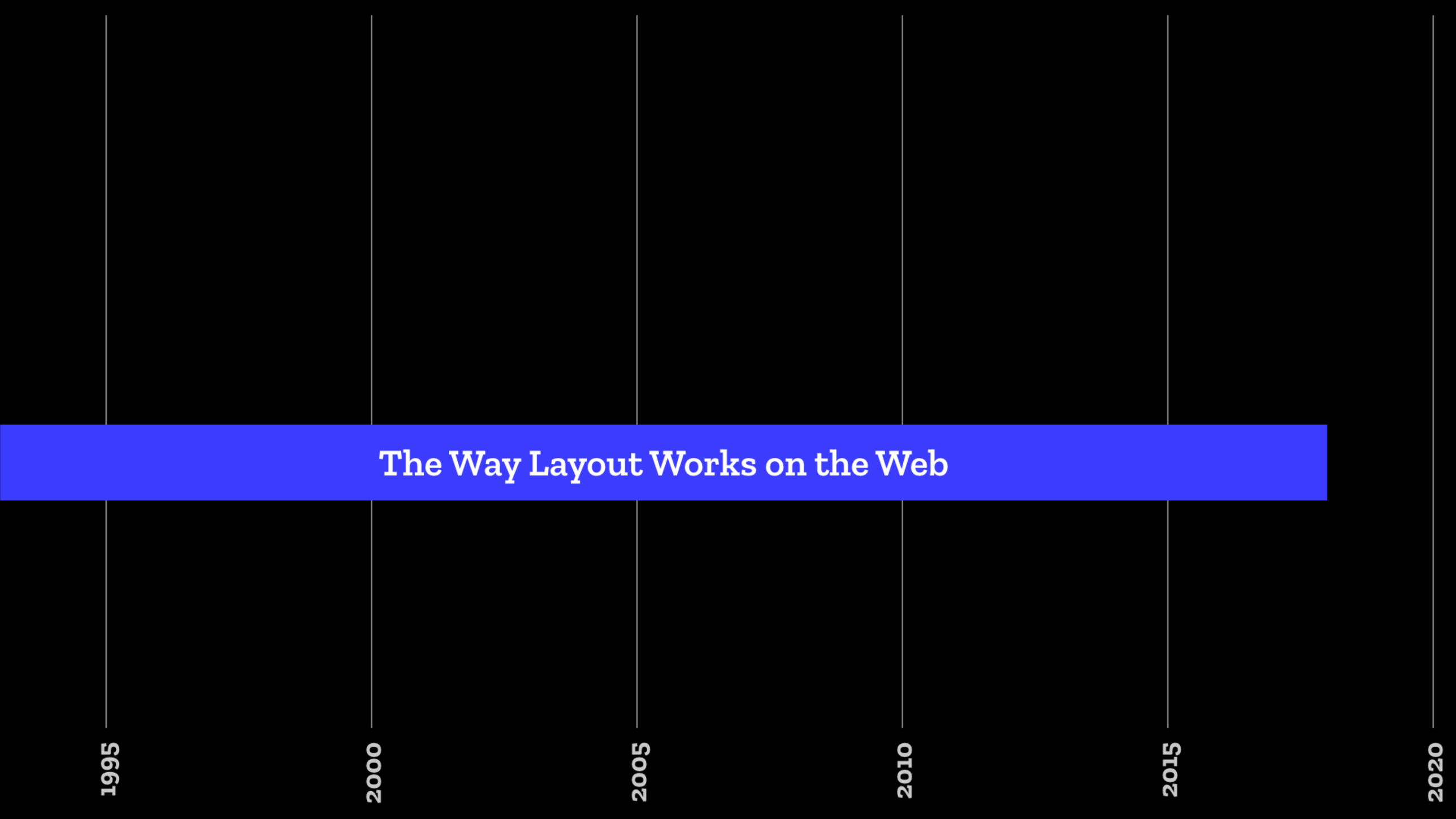
at An Event Apart Seattle 2018

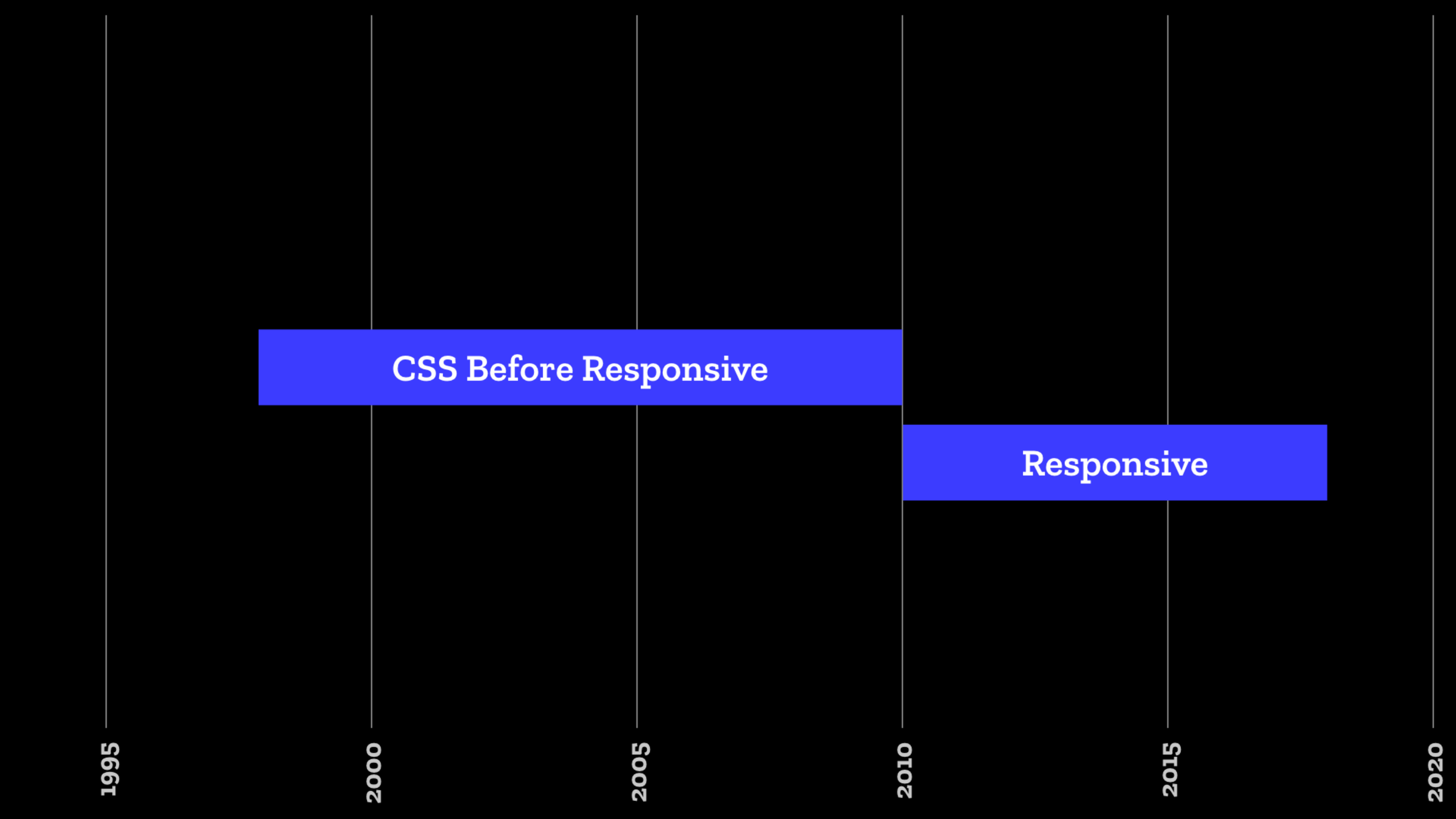
You don't have to learn
all the old crappy hacks.

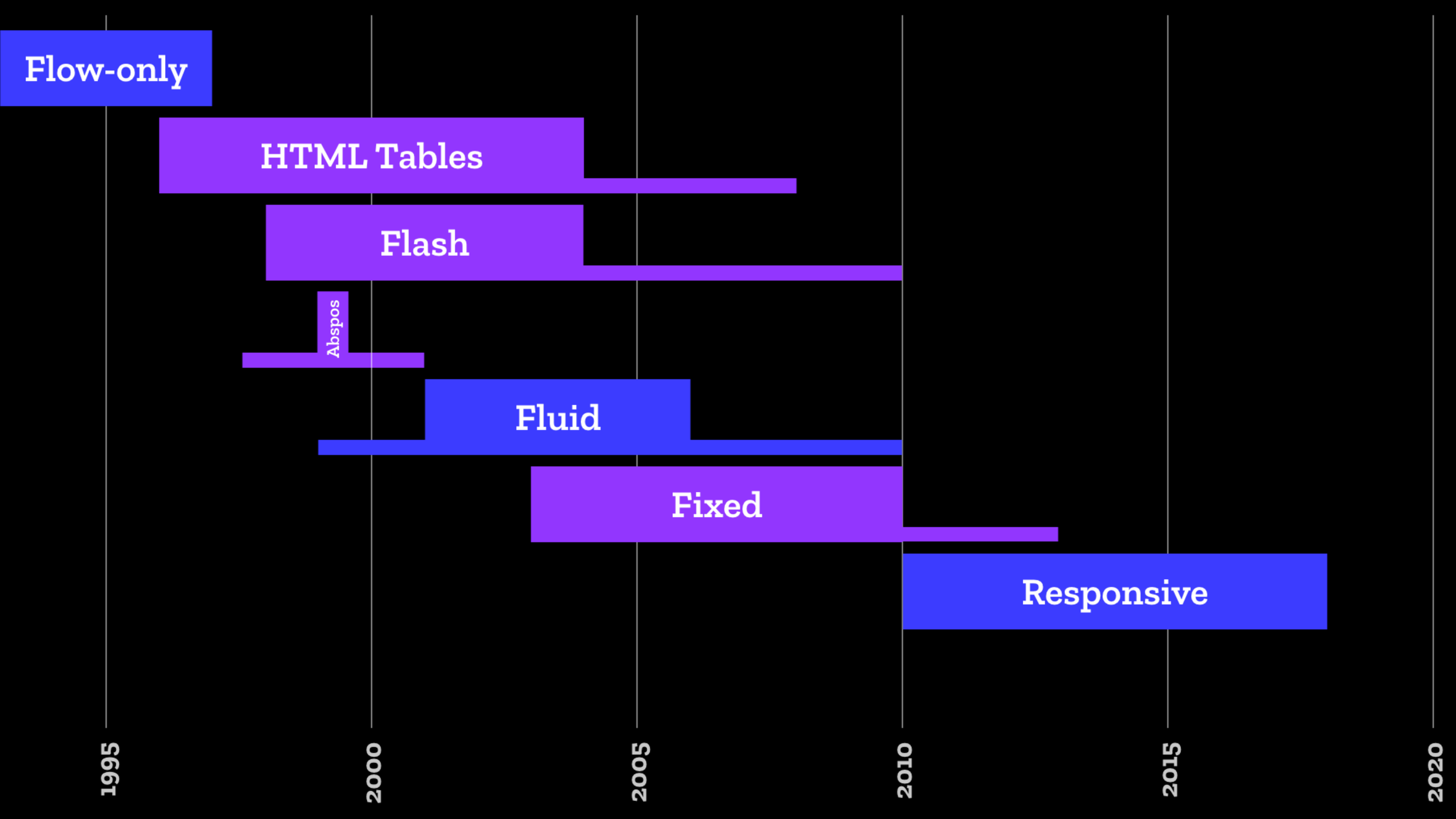
And you aren't stuck in
old models of thinking...

Plus... no one knows anything yet.

You can become an expert by leap-frogging
over all the people who are
dragging their feet.

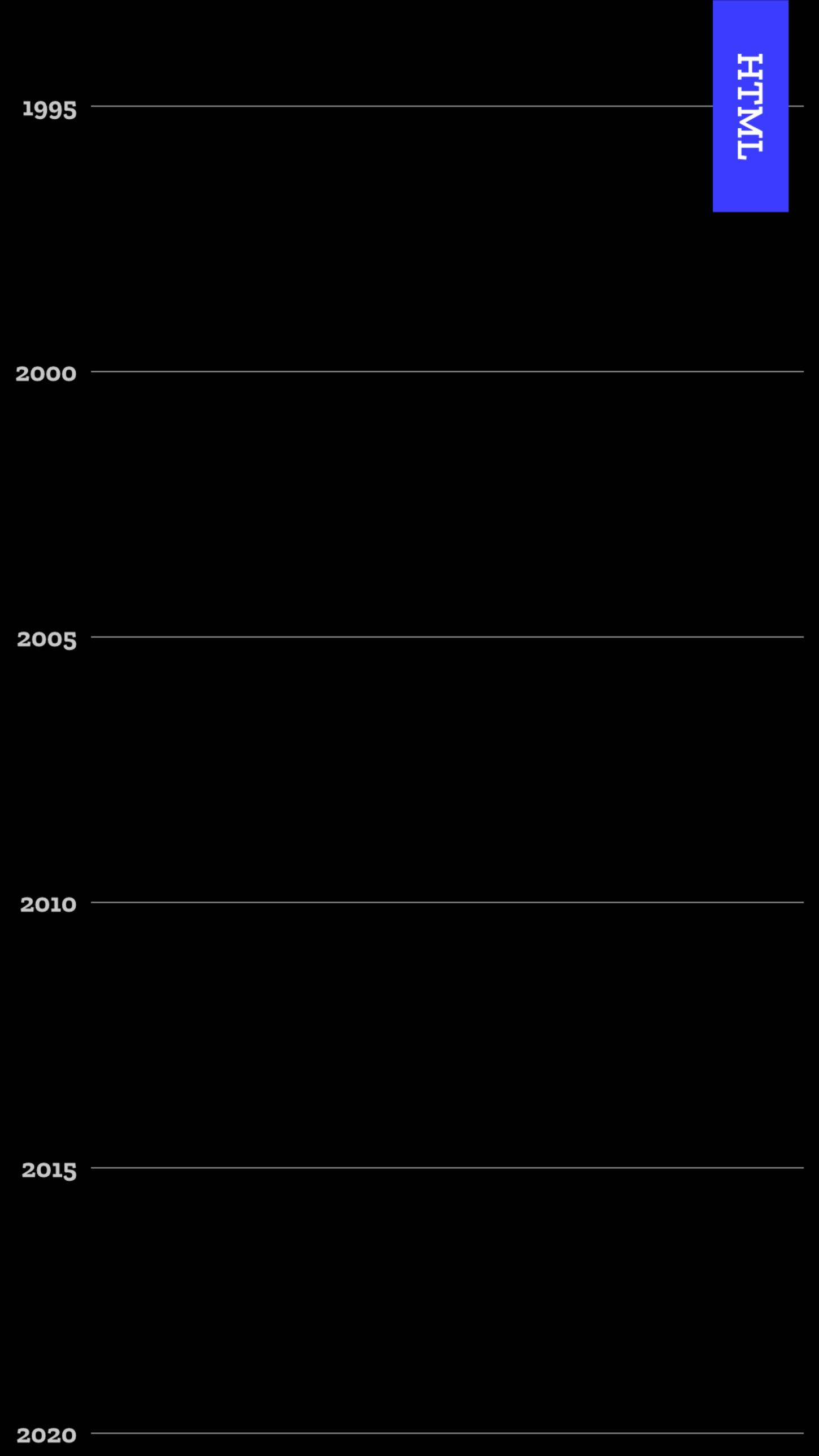

1995
2000
2005
2010
2015
2020
The Way Layout Works on the Web

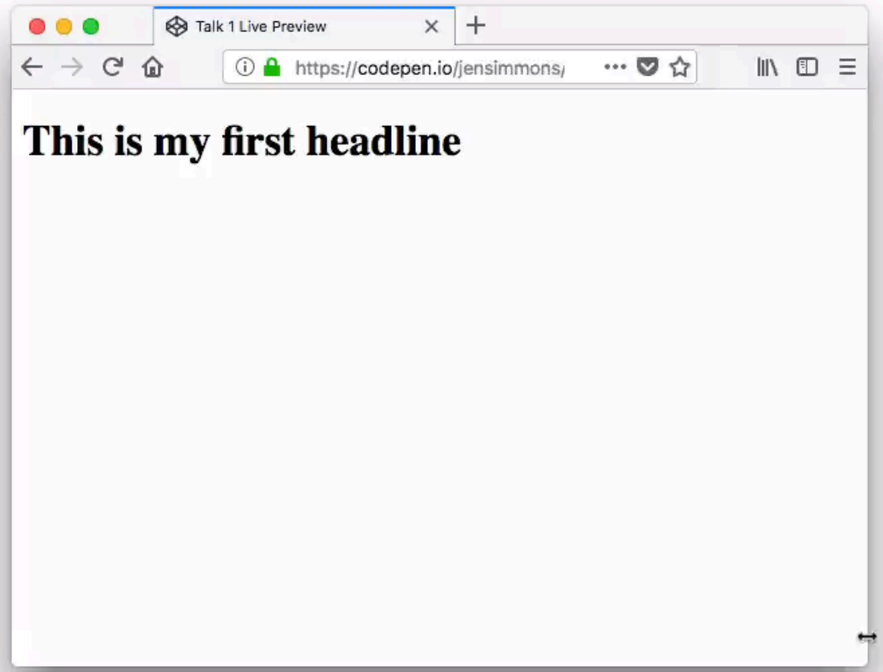

CSS Before Responsive
Responsive
1995
2000
2005
2010
2015
2020


Flow-only
HTML Tables
Flash
Abspos
Fluid
Fixed
Responsive
1995
2000
2005
2010
2015
2020

Simple HTML




1995
HTML
2000
2005
2010
2015
2020


Talk 1 Live Preview
https://codepen.io/jensimmons/
This is my first headline

Flow

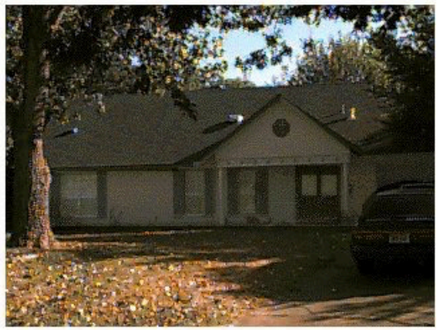
NCSA Mosaic Home Page - NCSA Mosaic

File Edit Source Manager View Navigate Tools Hotlists Help

Home Pages

http://atlantis.austin.apple.com/html/gan2/house.html

Here's the Homestead!



To navigate, just click in the direction you want to go. I've put in some navigation aids in places where there isn't any better solution. Many things in the various rooms are linked, and more and more will be linked as I get more time. There are also places that don't go anywhere at this time, but will later. This is very definitely evolving and growing as I get the time.

The pictures throughout the house were taken with an Apple QuickTake 100.

Send me some mail, tell me what you think.

I don't actually live there anymore, so I can't add much to it, but I'm stil interested in comments.

@outer.net

NCSA Mosaic Photo CD Metasearch

File Edit View Go Bookmarks Options Directory Help

Location: http://www.frostbyte.com/apple/usersworld

Guided Tour | What's New | Questions | Net Search | Net Directory | Newsgroups

Apple Computer User's World

Apple Computer presents this Internet Server for the benefit of our **loyal user community**. Often it is difficult to find a specialist, a dealer or sign up for a local seminar. This server site is dedicated to interacting with our users using 100% Apple computers, MacHTTP, AppleScript, databases, and custom C++ applications.

Since this server is in phase 1 of construction everything is not completed, please visit again soon to check on our progress. Enjoy! Let us know how we can better **server** you ... "the Apple User".

Apple Around The World Calendar

This section contains calendars of events where Apple will be hosting or participating.

Apple Developers Calendar

Apple Market Centers / Sales Offices

This section contains information and calendars of activities for the Apple Market Centers / Sales Offices in the USA.

East

Connecticut, Massachusetts, New Jersey, New York, Pennsylvania, Washington DC

South

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites Print Font Mail

Address http://www.caststone.org/ Links






10 West Kimball Street, Winder, Georgia xxxxx-xxxx USA
(xxx) xxx-xxxx Fax (xxx) xxx-5910 Email: [redacted]@caststone.org
You are the 261visitor to this site since 12/12/96!

The Cast Stone Institute is an organization of Cast Stone Manufacturers, Associates, Professional Architects, Engineers, and Concrete Technologists formed for the purpose of improving the quality of Cast Stone and disseminating information regarding its use. The activities of the Institute are designed to benefit both the industry and its patrons.

The Institute solicits the cooperation of Architects and users of Cast Stone. It invites requests for information and assistance in matters involving Cast Stone.



Happy Holidays from the members of the Cast Stone Institute!

NCSA Mosaic Home Page - NCSA Mosaic

File Edit Source Manager View Navigate Tools Hotlists Help

Home Pages

http://www.mslink.org/

MSLINK

MSLINK PROJECT HOME PAGE

Graphic Version

MSLINK project aims to provide Internet access to people with Multiple Sclerosis by utilizing computers donated by corporations. MSLINK Homepage provides variety of services such as National Multiple Sclerosis Society Mid America Chapter Events, Discussion Area, MS Library and many others. Please take a look at What's New .

Calendar : NMSS Mid-America Chapter and other MS related activities.	Contest : Let's get creative! It's time to show your talent by...
Library: Check out our library for information about Multiple Sclerosis and more...	Discussions: Would you like to share your opinion with others? Tune into our discussion group...
Links : May we suggest a few sites to visit ? You do not have to search for MS, we have already done it for you.	News : Daily news

What's New and Coming Soon

The following is a list of recent additions to our web. Every month we'll remove the oldest items. The most recent changes are listed first, and each item is linked to the page with the updated content.

- We have added new documents to our library.
- We are opening a discussion session which will enable you to post questions and opinions.
- We are going to open an "Ask the Expert" section.

NCSA Mosaic Photo CD Metasearch

File Edit View Go Bookmarks Options Directory Help

Back Forward Home Reload Images Open Find Stop

Welcome What's New! What's Cool! Questions Net Search Net Directory

BizWizard

BIZWIZARD - AUDIO/VISUAL BUSINESS DIRECTORY

BizWizard

Click to e-mail us Mail

Town Center Travel

14740 NW Cornell Road

Portland, Oregon 97229

Phone	(xxx)xxx-xxxx
Toll Free	x-xxx-xxx-xxxx
Fax	(xxx)xxx-xxxx



Town Center Travel is a full-service travel agency serving both corporate and leisure travelers. At Town Center Travel, you don't have to wait for the plane to take off to start enjoying yourself. Making your travel plans should be fun! We pride ourselves with our warm and friendly staff, and we want to make everything about your travels fun and enjoyable, including the planning of your trip.

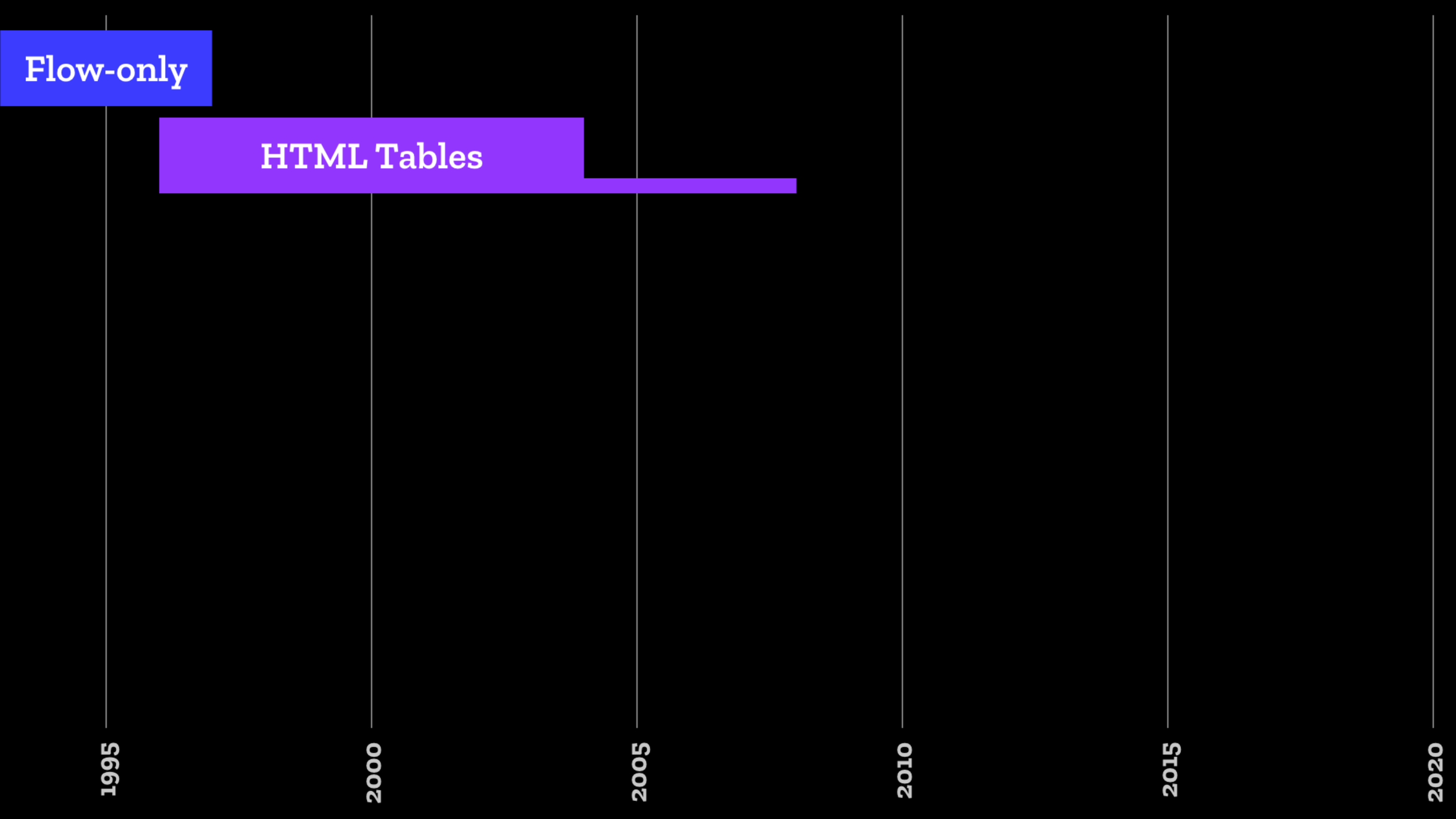
Even in this fast-paced world we live in, it's not rare to see one of our customers meander in to tell us about their adventures, or just stop by to say hi. We really care about you and the success of your travels, and it shows from the moment you contact us.

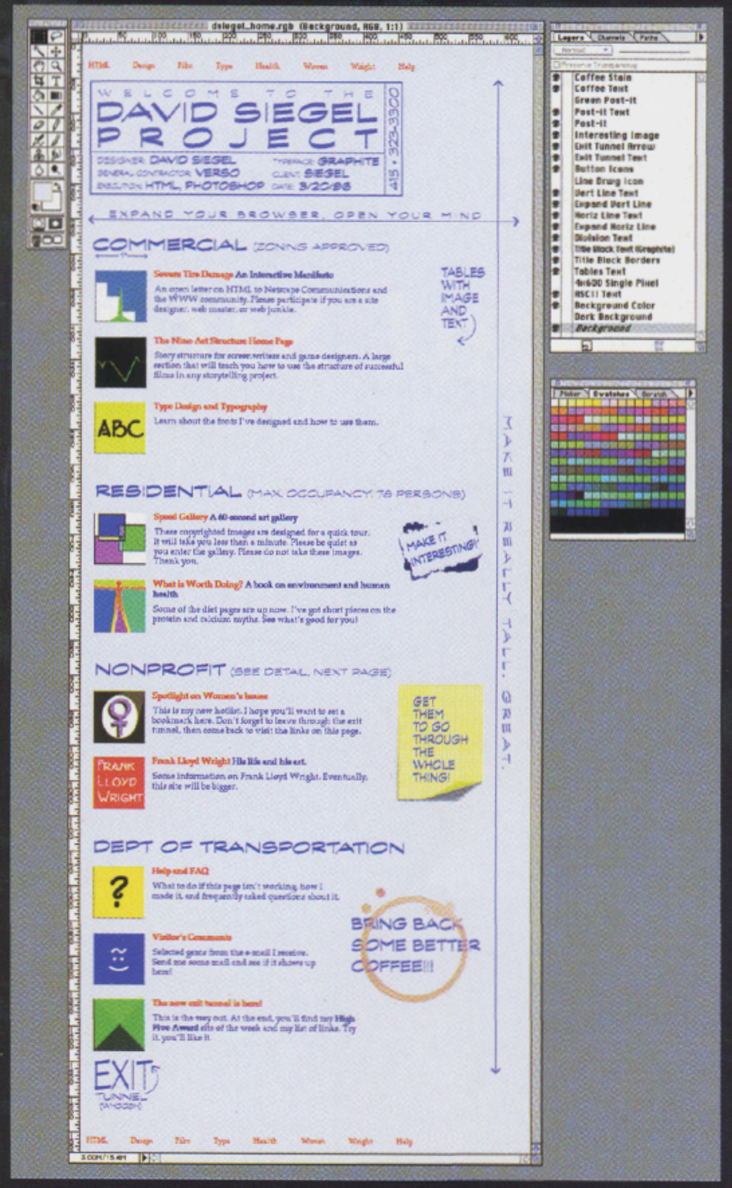
We also have specialized services for corporate travelers

- **Airline and Rail Tickets, Hotel Reservations, Car Rentals, and other Miscellaneous travel Services**
- **Delivery of Tickets within the Portland area**
- **A Toll-Free telephone number for clients "on-the -road" and for clients who are calling from outside our area**
- **Billing services, such as**
  - Itemization reports containing who traveled when
  - Amounts charged for ticketing, hotels, and cars
  - Other reporting services as needed
- **Profiles which are computerized for each person who travels, and which contain information on**



Tables for Layout


Flow-only
HTML Tables
1995
2000
2005
2010
2015
2020



7.1 Make your mistakes in Photoshop, not HTML. Creating a layer for each element keeps things flexible.

```
<!-- PAGE PARAMETERS -->
<HTML><HEAD><TITLE>David Siegel's Home Page</TITLE></HEAD>
<BODY BGCOLOR="#EDEDFF" TEXT="#000055" LINK="#CC0000"
ALINK="#FF3300" VLINK="#005522">

<!-- BEGIN OUTERMOST TABLE -->
<TABLE BORDER="1" CELLSPACING="0" CELLPADDING="0" HEIGHT="1442">
<!-- Outermost table has only one row; this is the left
 side -->
  <TR>
 <TD WIDTH="570" HEIGHT="1442" VALIGN="top">
 <IMG VSPACE="0" HSPACE="0" WIDTH="455" HEIGHT="174" SRC="newhome/
   back_legend.gif">
 <IMG VSPACE="0" HSPACE="0" WIDTH="570" HEIGHT="37" SRC="newhome/
   arrow_horiz.gif">

  <!-- THIS CELL CONTAINS THE RIGHT EXPANSION ARROW -->
 <TD ALIGN="left" VALIGN="top"><IMG VSPACE="0"
  HSPACE="0" WIDTH="42" HEIGHT="1418" SRC="newhome/
   arrow_tall_vert.gif"></TD>
  </TR>
</TABLE>

</BODY></HTML>
```

two images. Without it, there would be a crack, giving away my trick.

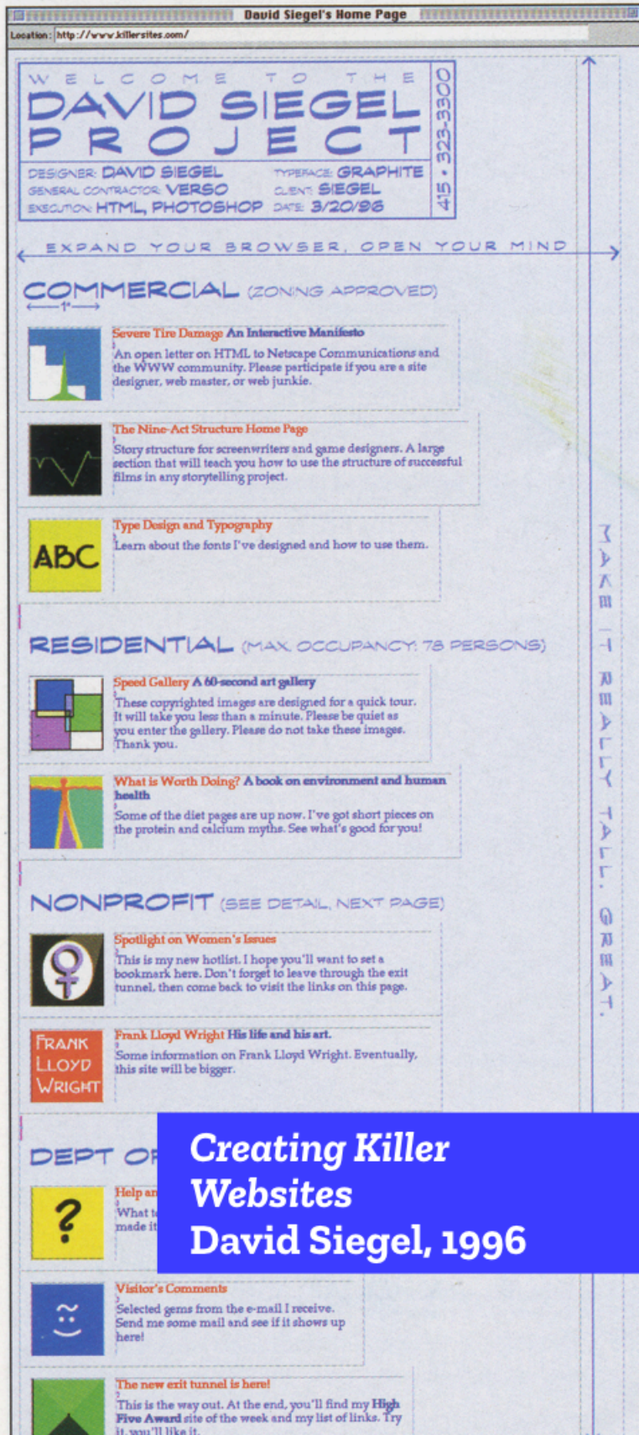
The Inner Tables

As the page takes shape, I plug in the cell contents one at a time. Once I splice the arrows back together, I can see the light at the end of the table. Right after that comes the "Commer-

image individually. These little tables make it easy to copy and paste as individual units when I want to add new items to my page *(you can view the source* HTML *at the Book Site)* [7.14].

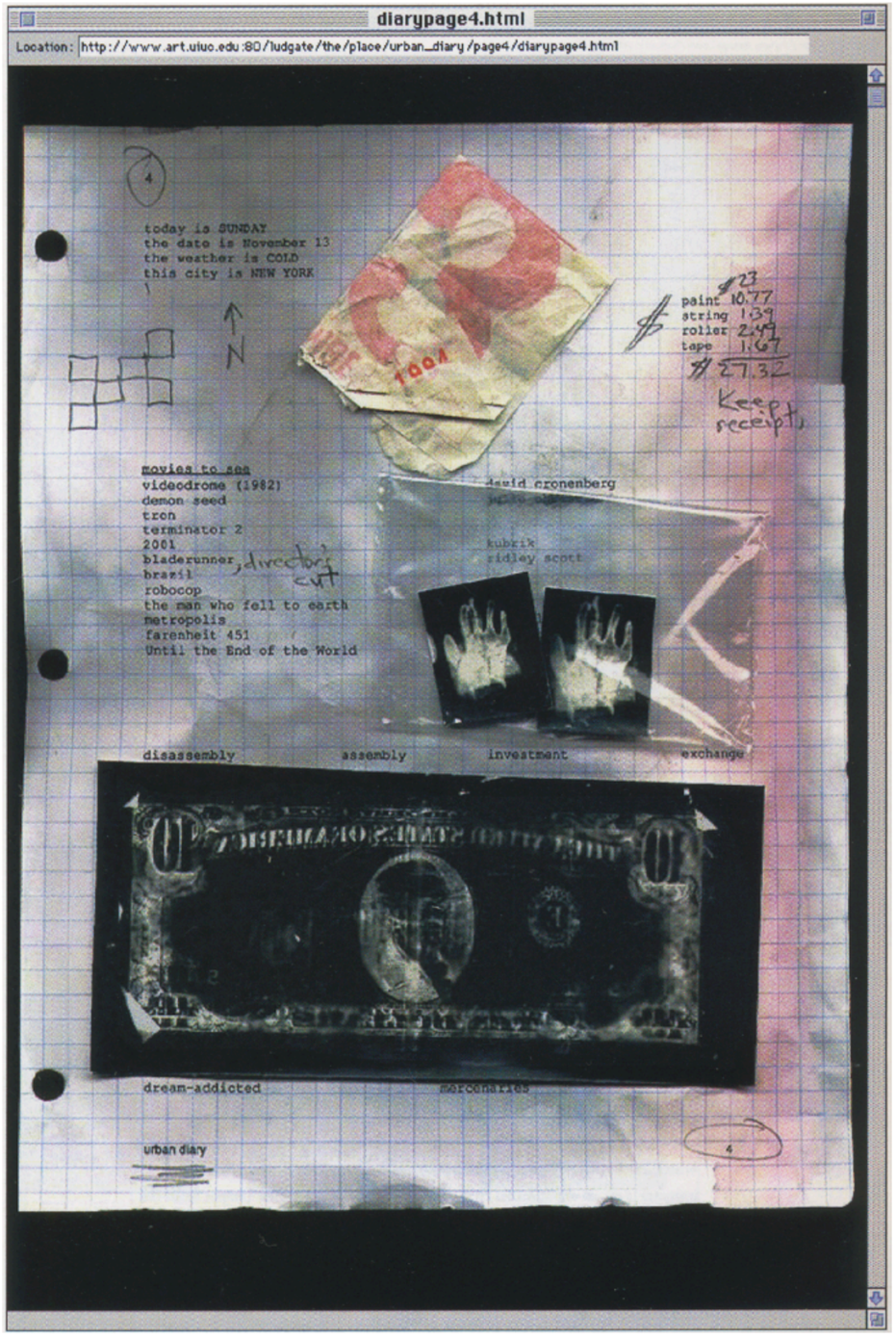
That's all there is to it. I add some text links at top and bottom, and I'm ready for visitors.

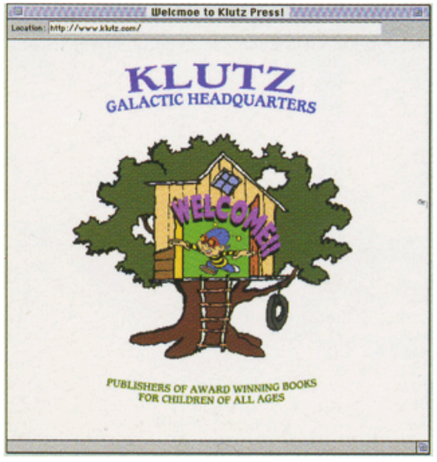
This page is not as flexible as I'd like, of course. As I add new features

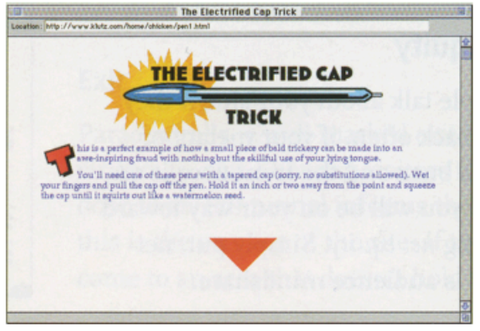


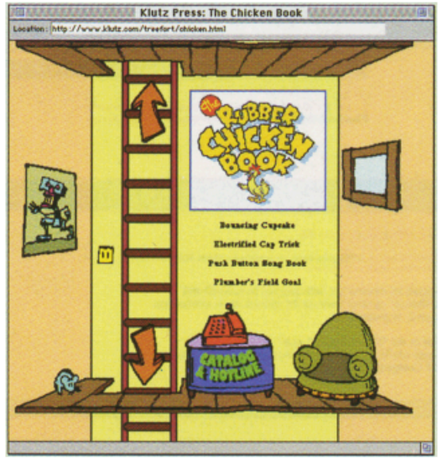


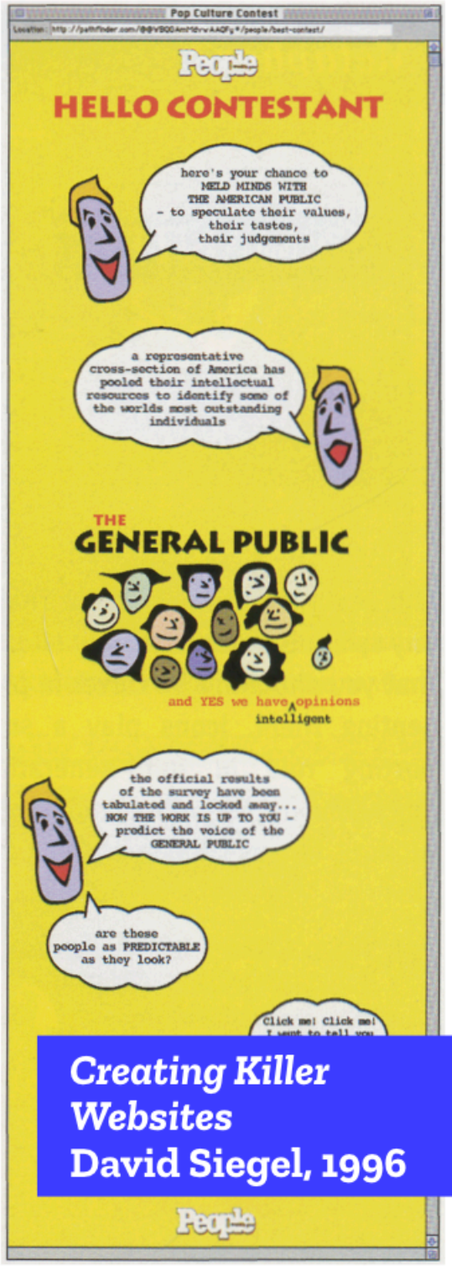








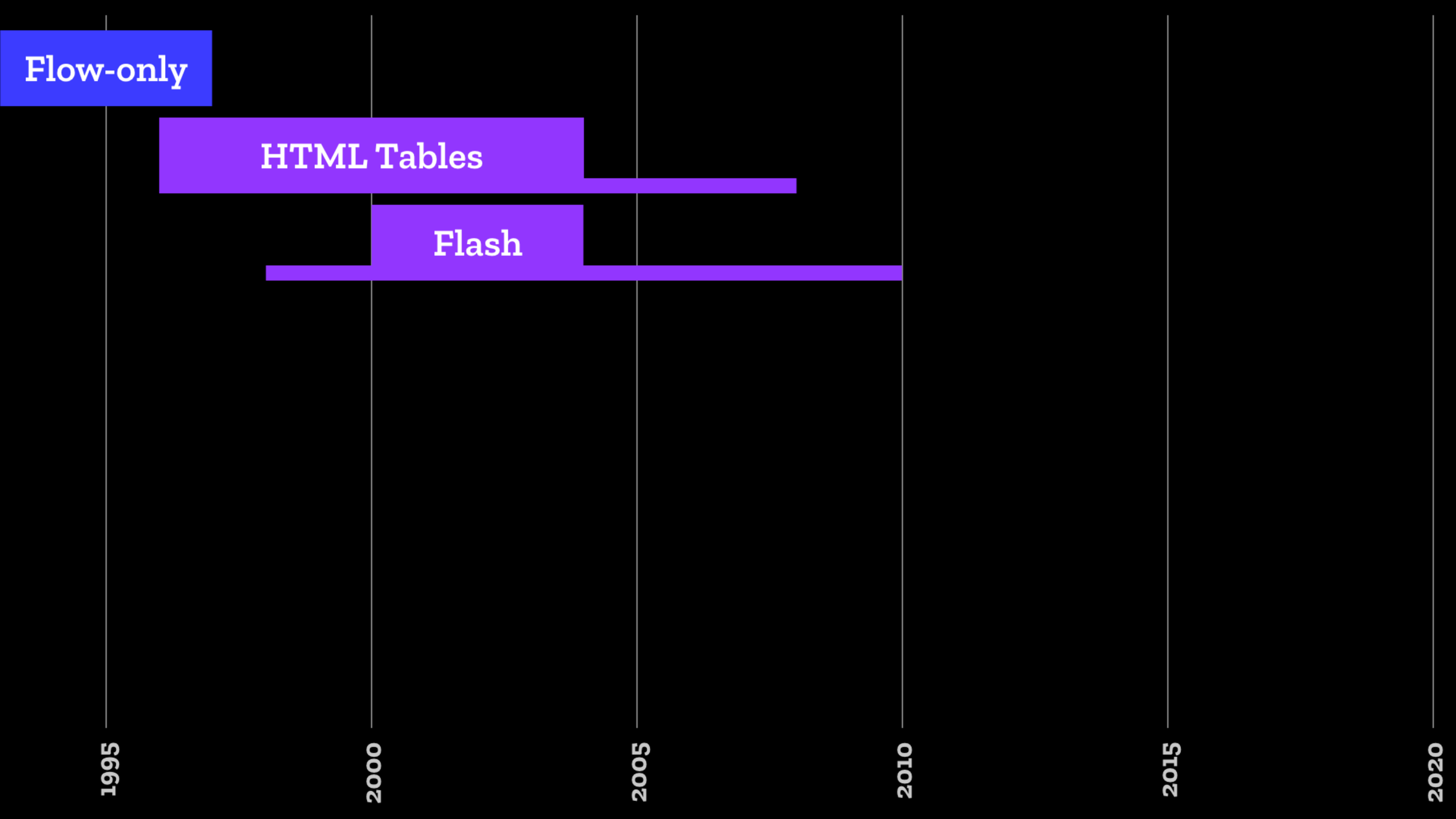




Creating Killer Websites
David Siegel, 1996



Flash


Flow-only
HTML Tables
Flash
1995
2000
2005
2010
2015
2020

they to me—and we will have a layer setup that is recognizable. This is a system that lessens confusion.

1 Display the Timeline by choosing View > Timeline (Ctrl-Alt-T / Cmd-Option-T). The default layer, named Layer 1, is automatically

figure 02:01

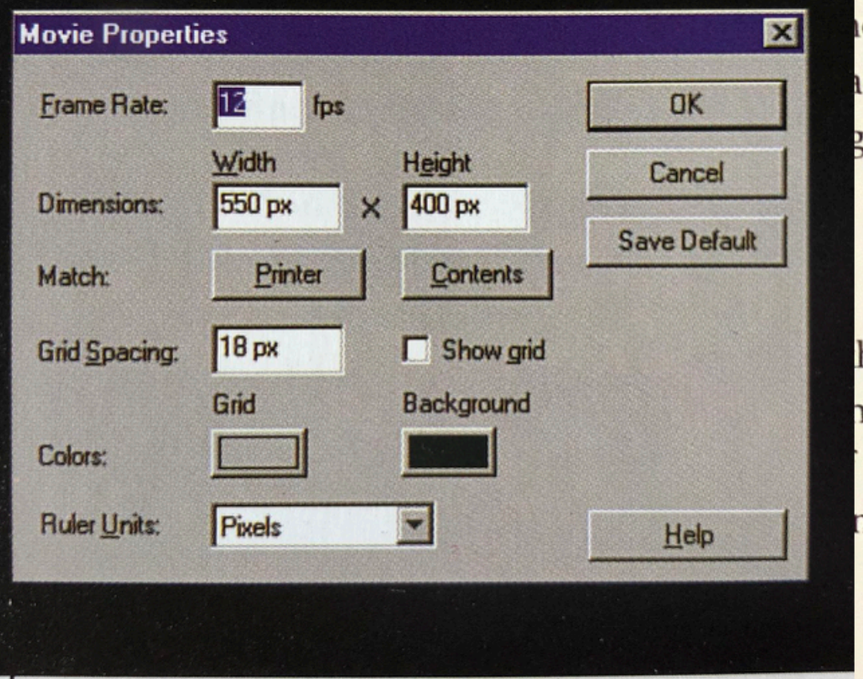
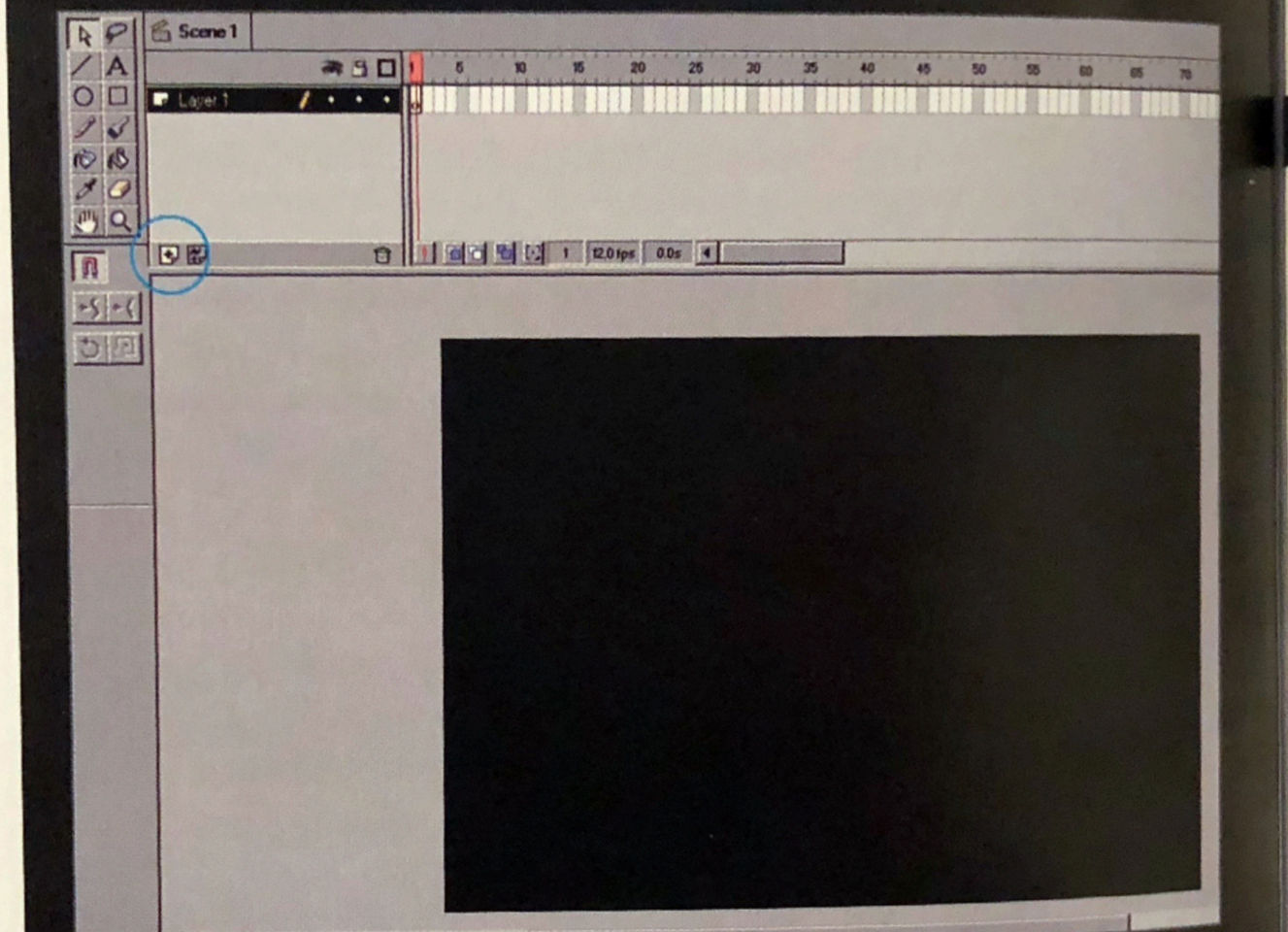
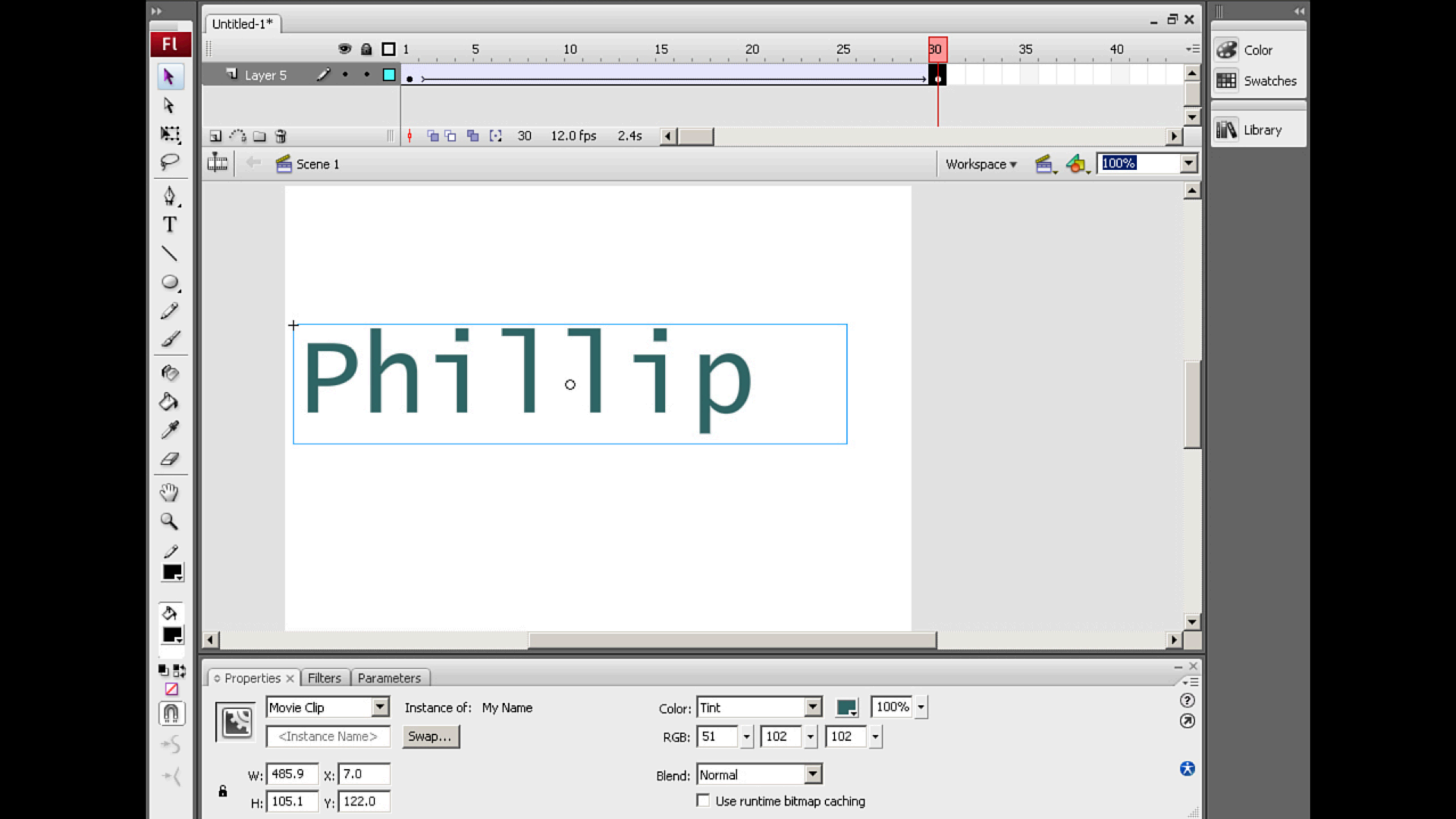
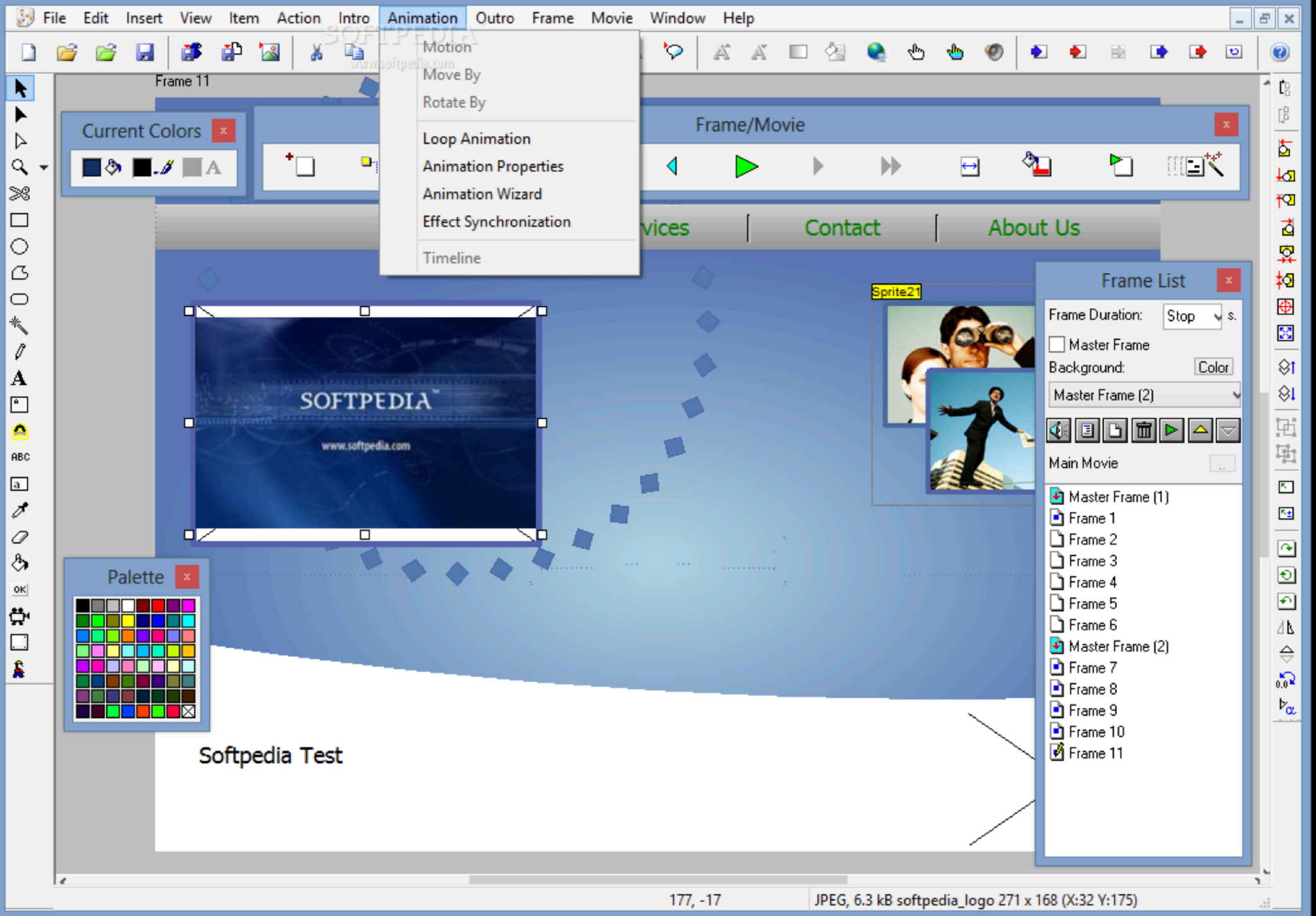


figure 02:02

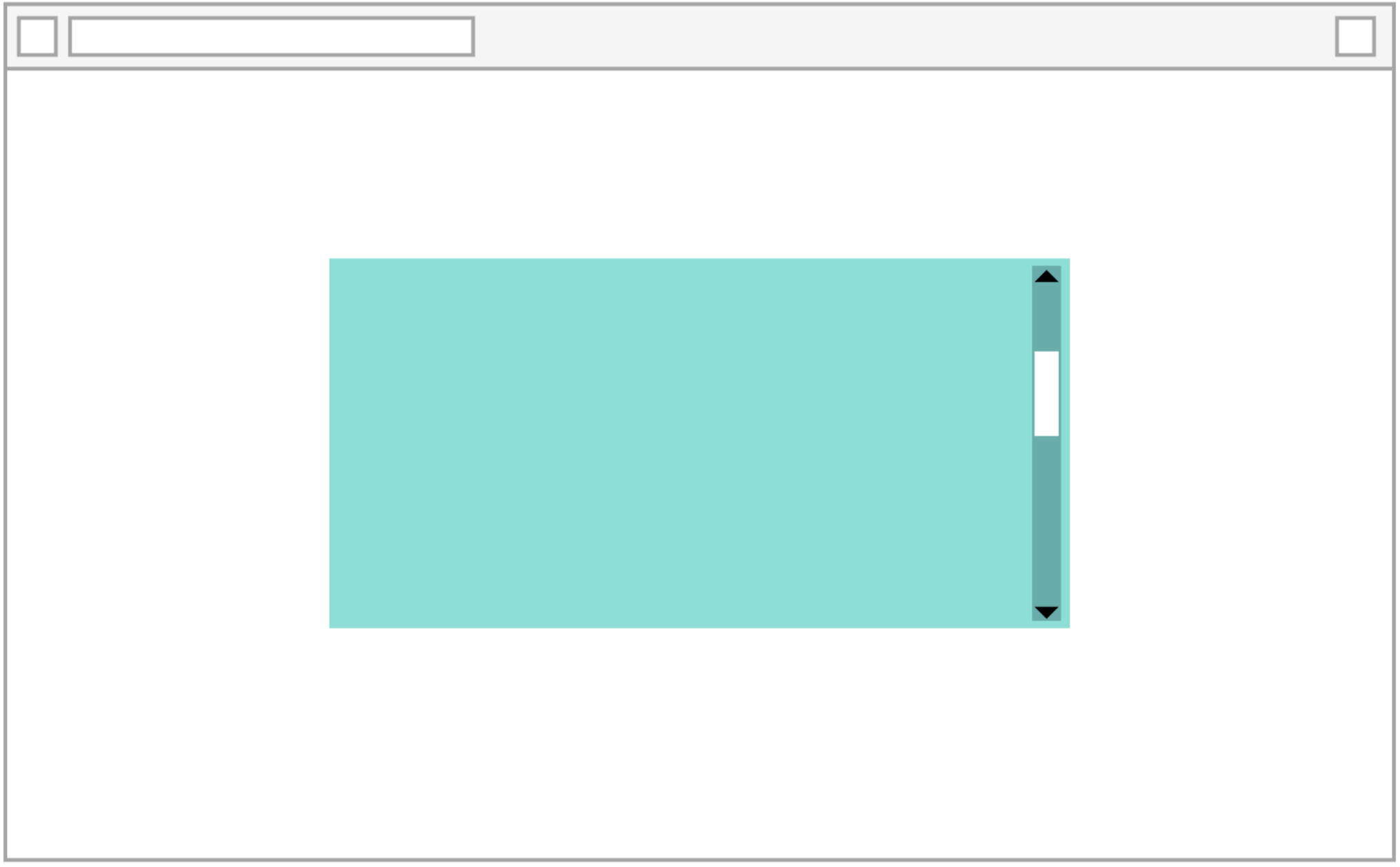


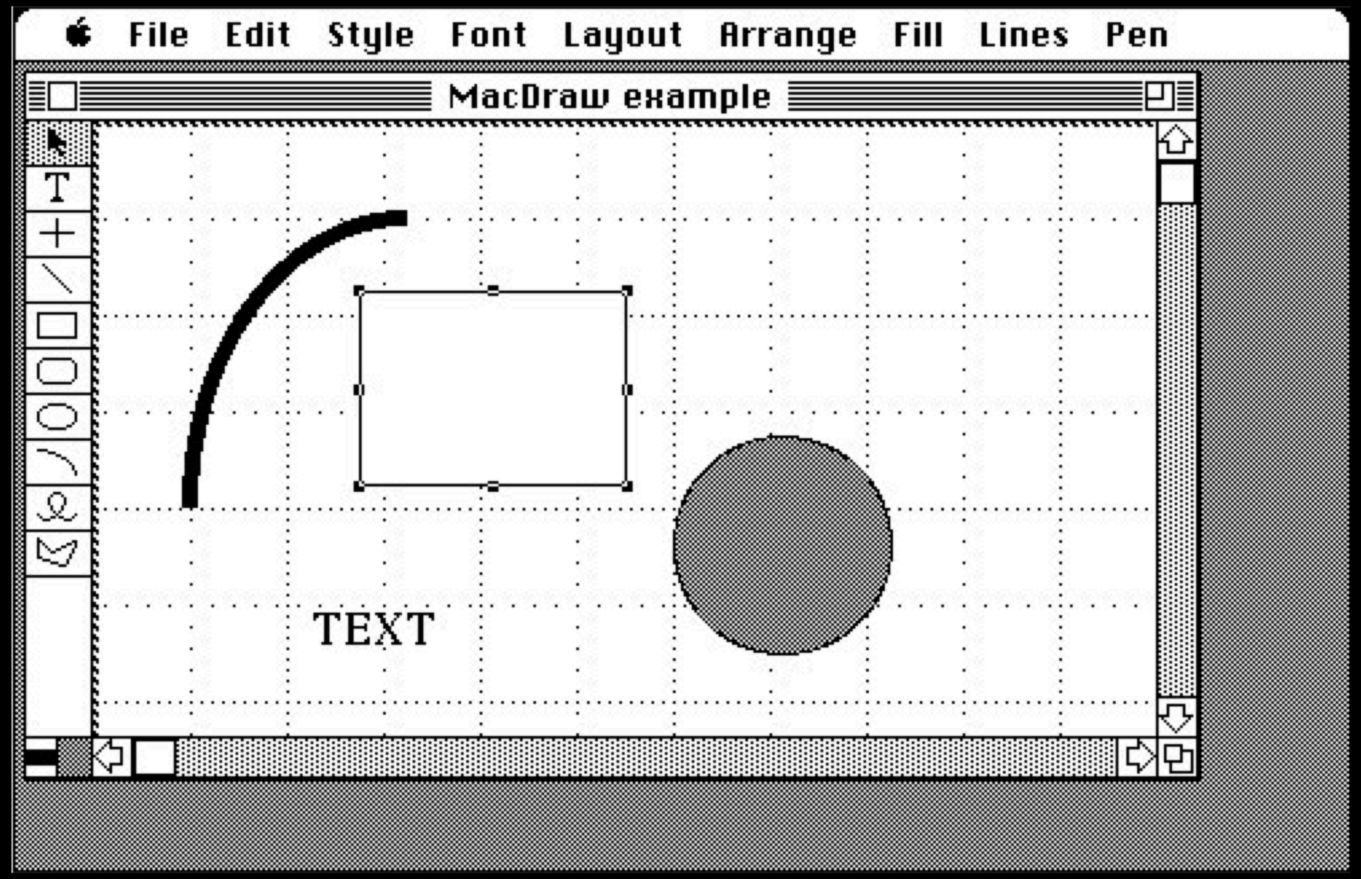
STEP


Untitled-1*
Layer 5
30
12.0 fps
2.4s
Scene 1
Workspace
100%
Phillip
Color
Swatches
Library
Properties
Filters
Parameters
Movie Clip
Instance of: My Name
<Instance Name>
Swap...
Color: Tint
100%
RGB: 51 102 102
Blend: Normal
Use runtime bitmap caching
W: 485.9 X: 7.0
H: 105.1 Y: 122.0


File Edit Insert View Item Action Intro Animation Outro Frame Movie Window Help
Motion
Move By
Rotate By
Loop Animation
Animation Properties
Animation Wizard
Effect Synchronization
Timeline
Frame 11
Current Colors
Frame/Movie
Contact
About Us
SOFTPEDIA
www.softpedia.com
Sprite21
Frame List
Frame Duration:
Stop
s.
Master Frame
Background:
Color
Master Frame (2)
Main Movie
Master Frame (1)
Frame 1
Frame 2
Frame 3
Frame 4
Frame 5
Frame 6
Master Frame (2)
Frame 7
Frame 8
Frame 9
Frame 10
Frame 11
Palette
Softpedia Test
177, -17
JPEG, 6.3 kB softpedia_logo 271 x 168 (X:32 Y:175)






File Edit Style Font Layout Arrange Fill Lines Pen
MacDraw example
T
TEXT

1984

CSS



Separation of Concerns

HTML = content + interface

CSS = styling look & layout

Note that image height and width attributes, although useful, are not strictly necessary. Note also that, thanks to CSS, the border attribute is entirely unnecessary, even though we have included it here for the sake of old browsers. Our markup *could* be as clean and simple as this:

```
<div id="primenav">
<a href="/"><img src="/i/home.gif" alt="Home" /></a>
<a href="/"><img src="/i/dailyreport.gif" alt=
"The Daily Report" /></a>
<a href="/glamorous/"><img src="/i/glamorouslife.gif" alt=
"My Glamorous Life" /></a>
<a href="/classics/"><img src="/i/classic.gif" alt=
" Classics, 1995-2002" /></a>
</div>
```

HTML web standards for CSS

Compare and contrast the compactness and clarity of the preceding markup with the typical table layout version shown here:

HTML Table Layout code

```
<table border="0" cellpadding="0" cellspacing="0" width="500">
<tr>
<td valign="top" width="150" height="100" bgcolor="#339999">
<a href="/"><img src="/i/home.gif" width="150" height="100"
border="0" alt="Home" /></a>
</td>
<td valign="top" width="140" height="100" bgcolor="#339999">
<a href="/"><img src="/i/dailyreport.gif" width="140" height=
"100" border="0" alt="The Daily Report" /></a>
</td>
<td valign="top" width="110" height="100" bgcolor="#339999">
<a href="/glamorous/"><img src="/i/glamorouslife.gif" width=
"110" height="100" border="0" alt="My Glamorous Life" /></a>
</td>
<td valign="top" width="100" height="100" bgcolor="#339999">
<a href="/classics/"><img src="/i/classic.gif" width="100"
height="100" border="0" alt=" Classics, 1995-2002" /></a>
</td>
</tr>
</table>
```

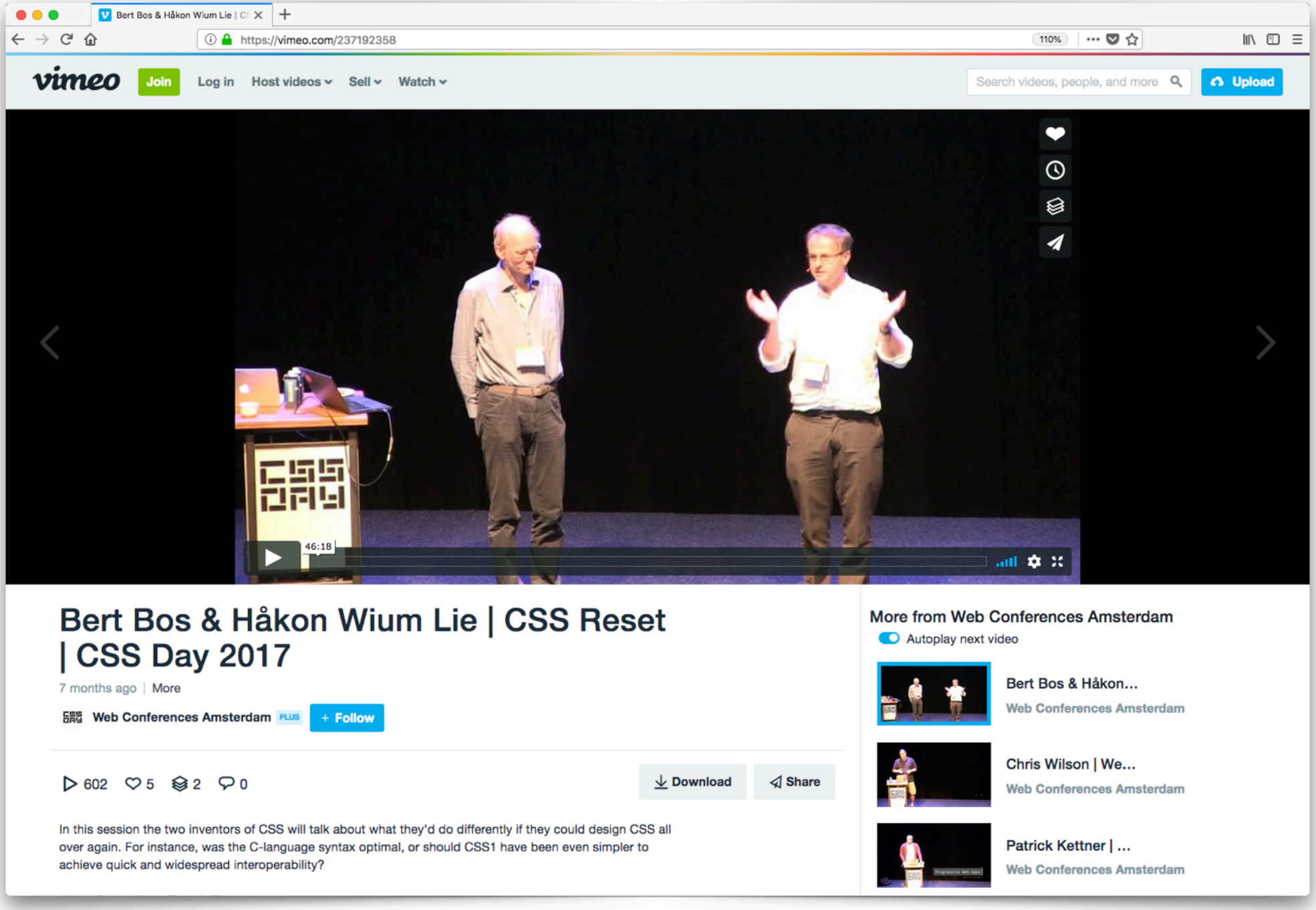
There's no contest. But compact markup and meta-structural thinking are *not* limited to CSS layouts. They can power and streamline table-based layouts, too.

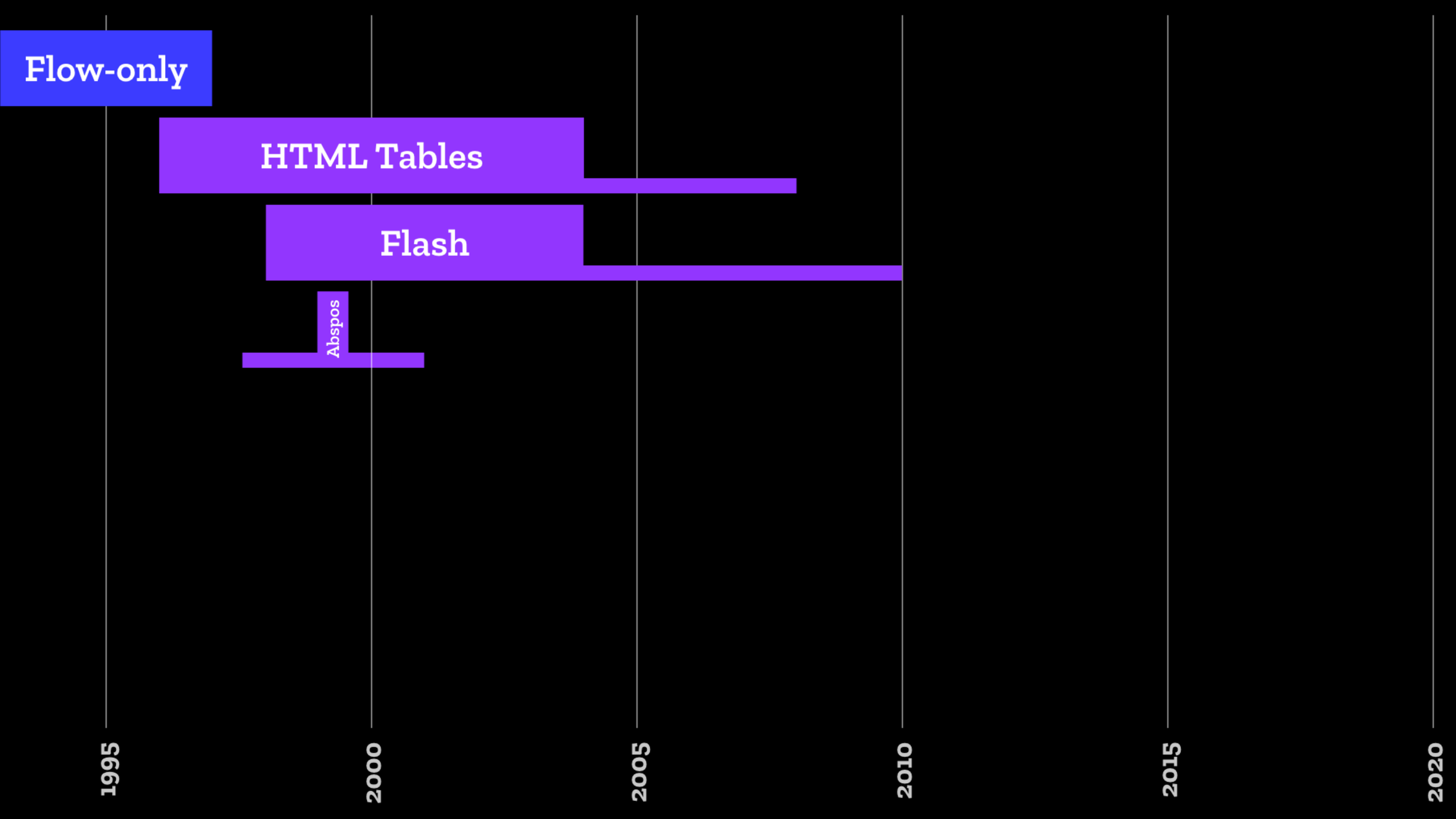
Designing with Web Standards
Jeffrey Zeldman, 2003

Semantic Markup

Absolute Positioning




Bert Bos & Håkon Wium Lie | CS
https://vimeo.com/237192358
110%
vimeo
Join
Log in
Host videos
Sell
Watch
Search videos, people, and more
Upload
CSS DAY
46:18
Bert Bos & Håkon Wium Lie | CSS Reset | CSS Day 2017
7 months ago | More
Web Conferences Amsterdam PLUS
+ Follow
602 5 2 0
Download
Share
In this session the two inventors of CSS will talk about what they'd do differently if they could design CSS all over again. For instance, was the C-language syntax optimal, or should CSS1 have been even simpler to achieve quick and widespread interoperability?
More from Web Conferences Amsterdam
Autoplay next video
Bert Bos & Håkon...
Web Conferences Amsterdam
Chris Wilson | We...
Web Conferences Amsterdam
Patrick Kettner | ...
Web Conferences Amsterdam


Flow-only
HTML Tables
Flash
Abspos
1995
2000
2005
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2020

Fluid Layouts using Floats



AEA 2018 — Example 2, Fluid

AEA 2018 — Example 2.5, Fluid

https://codepen.io/jensimmon

This is my first headline

Lorem ipsum dolor sit amet consectetur adipiscing, elit inceptos nunc et litora, cras class id morbi viverra. Leo in hac vel sed molestie fringilla fusce orci, dis nibh pharetra quisque inceptos interdum tortor, porta parturient varius magna curae feugiat vestibulum egestas, suscipit facilisi accumsan torquent aptent lobortis. Non dictum feugiat himenaeos consequat per odio ante porta eget senectus, ac accumsan ligula laoreet vivamus sociis mollis habitasse magna, felis massa dis id malesuada donec ut pulvinar iaculis.

Let's center the second even longer headline



Nullam bibendum hendrerit augue, sed tempus odio sagittis nec. Ut ipsum lorem, scelerisque ac vestibulum et, tincidunt eget urna. Phasellus pellentesque nec urna id elementum. Maecenas a urna metus. Vivamus ac euismod ante. Vivamus ut risus porttitor, porttitor ligula a, maximus risus. Donec maximus vulputate mauris, vel placerat diam interdum eu. Nam tempus diam eget blandit efficitur. Etiam sed porta nisi. Donec sit amet sapien in est pellentesque sollicitudin. Donec nec erat efficitur, efficitur purus vel, vehicula odio. Fusce eget placerat massa, vel porta lacus. Proin consectetur finibus lacinia.

AEA 2018 — Example 2, Fluid

AEA 2018 — Example 2.5, Fluid

https://codepen.io/jensimmons/live/vRRbJe

Let’s center the second even longer headline



Nullam bibendum hendrerit augue, sed tempus odio sagittis nec. Ut ipsum lorem, scelerisque ac vestibulum et, tincidunt eget urna. Phasellus pellentesque nec urna id elementum. Maecenas a urna metus. Vivamus ac euismod ante. Vivamus ut risus porttitor, porttitor ligula a, maximus risus. Donec maximus vulputate mauris, vel placerat diam interdum eu. Nam tempus diam eget blandit efficitur. Etiam sed porta nisi. Donec sit amet sapien in est pellentesque sollicitudin. Donec nec erat efficitur, efficitur purus vel, vehicula odio. Fusce eget placerat massa, vel porta lacus. Proin consectetur finibus lacinia.

This is my first headline

Lorem ipsum dolor sit amet consectetur adipiscing, elit inceptos nunc et litora, cras class id morbi viverra. Leo in hac vel sed molestie fringilla fusce orci, dis nibh pharetra quisque inceptos interdum tortor, porta parturient varius magna curae feugiat vestibulum egestas, suscipit facilisi accumsan torquent aptent lobortis. Non dictum feugiat himenaeos consequat per odio ante porta eget senectus, ac accumsan ligula laoreet vivamus sociis mollis habitasse magna, felis massa dis id malesuada donec ut pulvinar iaculis.



Fixed-Width Layouts using Floats

AEA 2018 — Example 3, Fixed

https://codepen.io/jensimmons/live/GxxeBV

This is now the first set of content



Nullam bibendum hendrerit augue, sed tempus odio sagittis nec. Ut ipsum lorem, scelerisque ac vestibulum et, tincidunt eget urna. Phasellus pellentesque nec urna id elementum. Maecenas a urna metus. Vivamus ac euismod ante. Vivamus ut risus porttitor, porttitor ligula a, maximus risus. Donec maximus vulputate mauris, vel placerat diam interdum eu. Nam tempus diam eget blandit efficitur. Etiam sed porta nisi. Donec sit amet sapien in est pellentesque sollicitudin. Donec nec

This is my first headline

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960 Grid System — Demo
https://960.gs/demo.html
960 Grid System
12 Column Grid
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2006-10

12 My Account enter search terms

Acme Widgets

Home Event Accesories Apparel Featured Items

Image Gallery of Featured Products

Intro Copy Headline

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Image of Featured Product

Item Title
Item Category
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Image of Featured Product

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Image of Featured Product

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Image of Featured Product

Item Title
Item Category
$88.00

Quick Links

Home
Event
Support
Contact

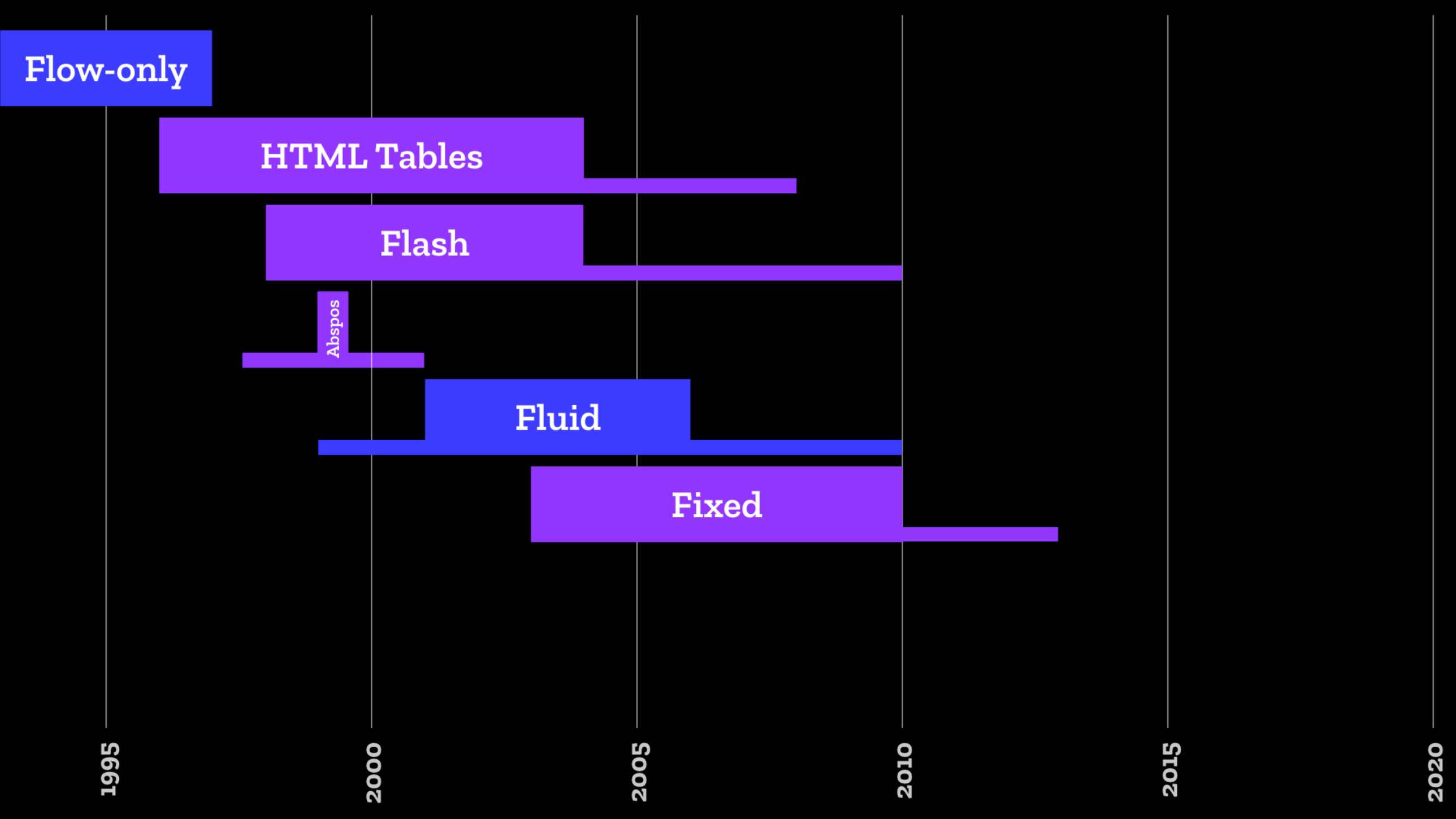
Announcements / Promoted Content

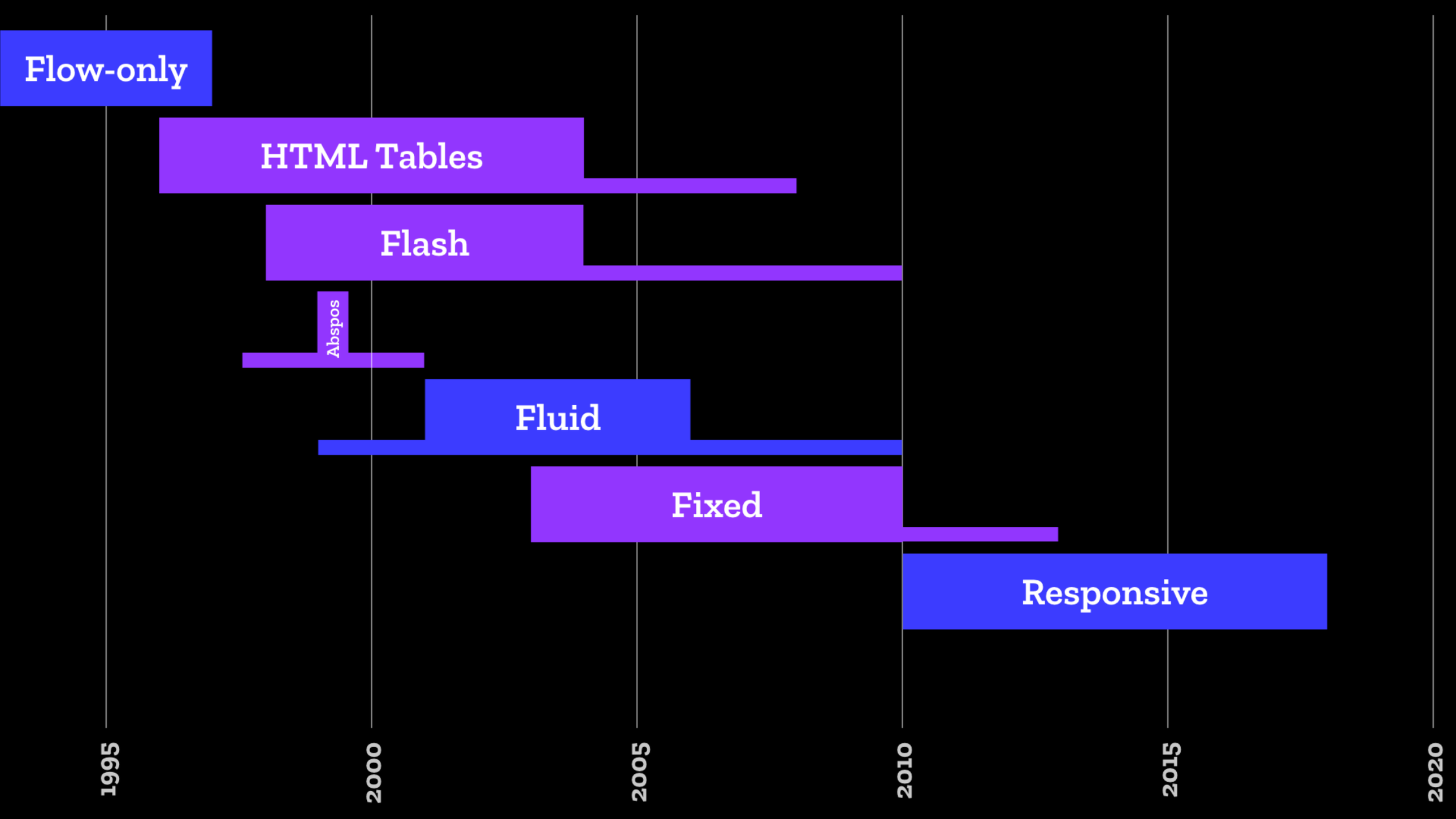
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Coming Soon

Image of upcoming product

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Flow-only
HTML Tables
Flash
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Fixed
1995
2000
2005
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2020


Flow-only
HTML Tables
Flash
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Fixed
Responsive
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Responsive Web Design



AEA 2018 — Example 4, Respo

https://codepen.io/jensimmons/live/wmmNPY

This is the Article with a Longer Headline



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This is my sidebar headline

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Bootstrap Grid Default | Viewport: 1024x768 | Grid: W:940 / C:60 / G:20

12 My Account enter search terms

Acme Widgets

Home Event Accesories Apparel Featured Items

Image Gallery of Featured Products

Intro Copy Headline

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Image of Featured Product

Item Title
Item Category
$88.00

Image of Featured Product

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Quick Links

Home
Event
Support
Contact

Announcements / Promoted Content

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Coming Soon

Image of upcoming product

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Bootstrap Grid Tablet Portrait | Viewport: 768x1024 | Grid: W:724 / C:42 / G:20

12 My Account enter search terms

Acme Widgets

Home Event Accesories Apparel Featured Items

Image Gallery of Featured Products

Intro Copy Headline

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Quick Links

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Announcements / Promoted Content

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Image of upcoming product

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12 My Account enter search terms

Acme Widg Home

Intro Copy Headline

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Image of Featured

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Quick Links

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Event
Support
Contact

Announcements / Promoted Content

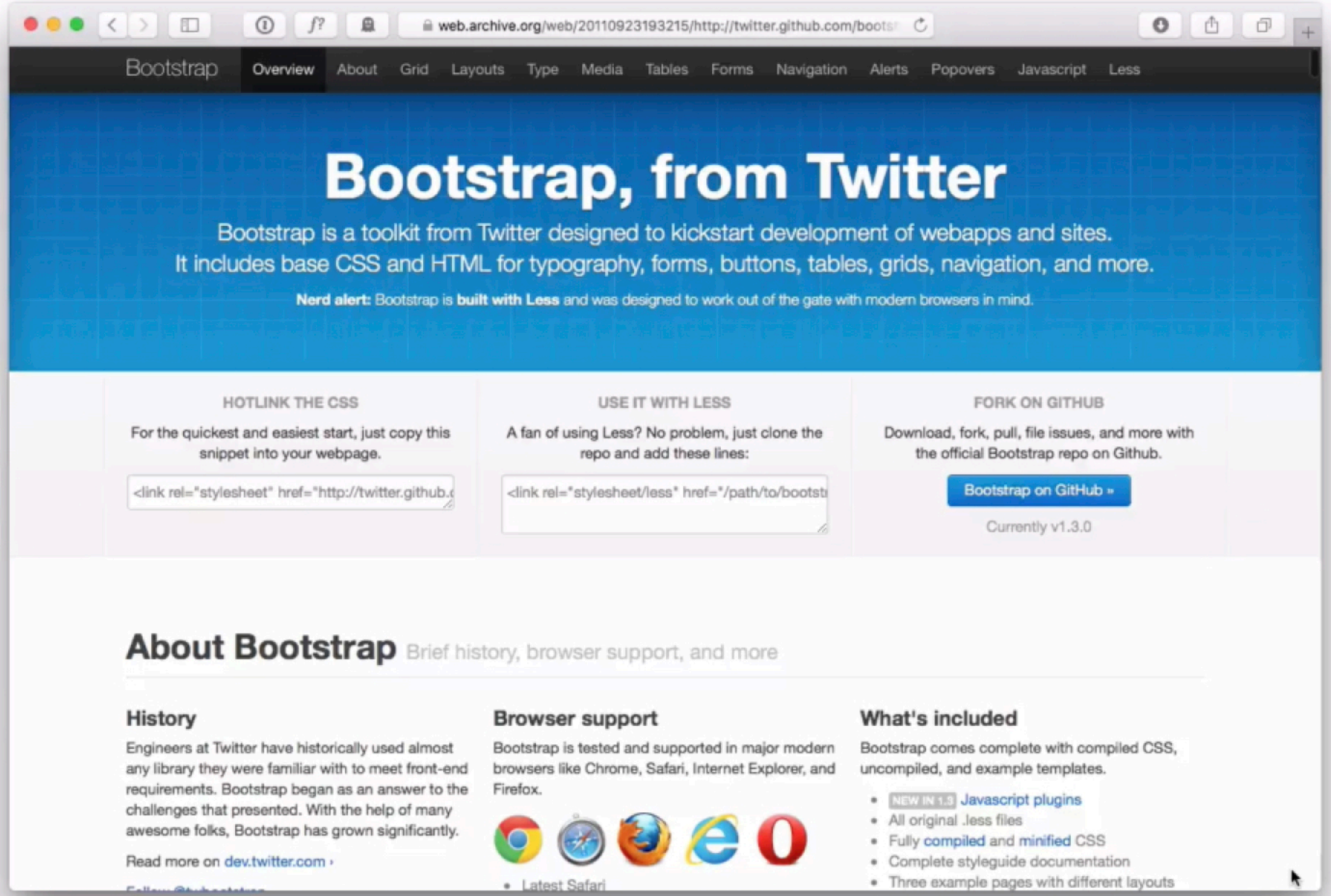
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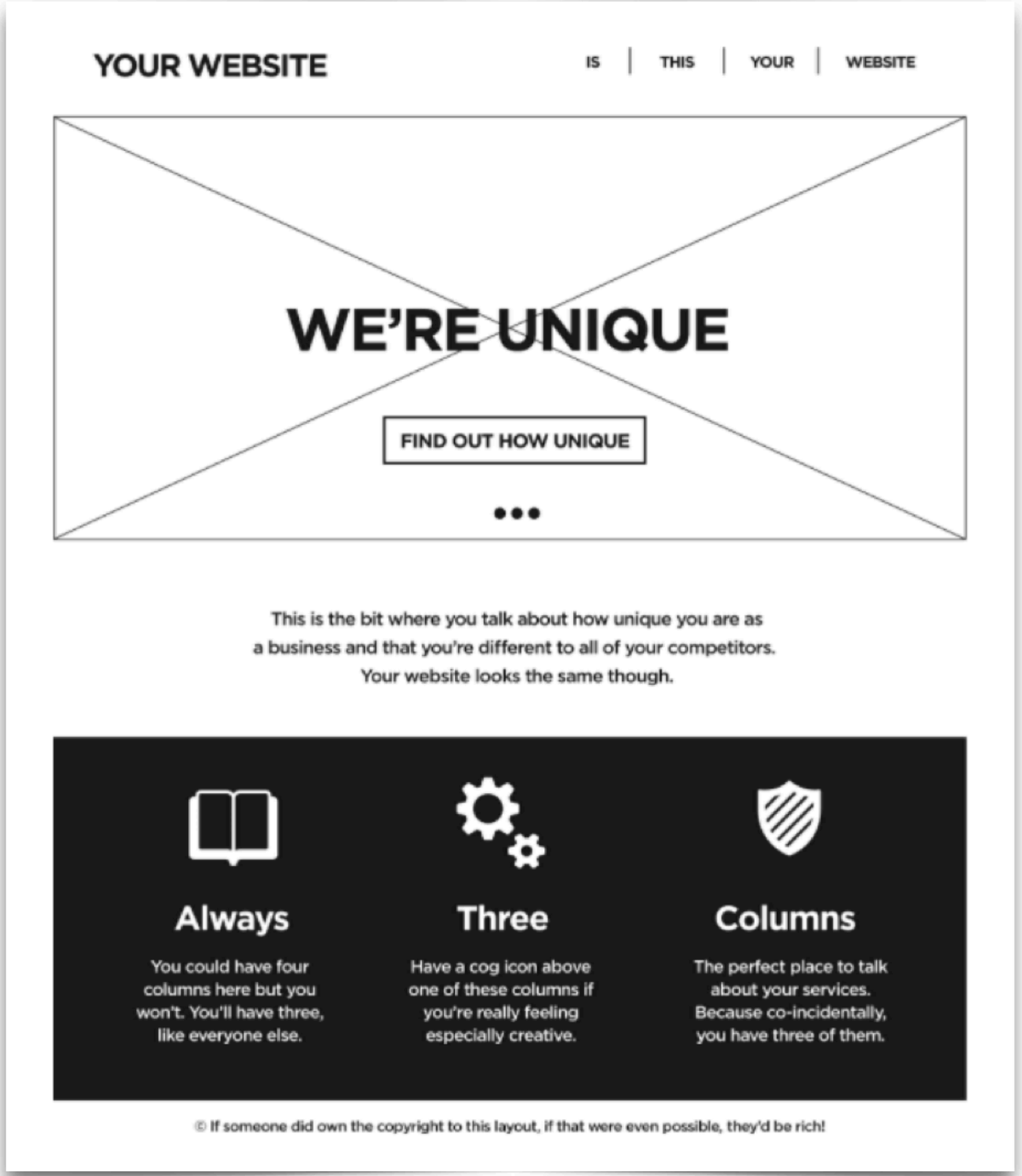
Coming Soon

Image of upcoming product

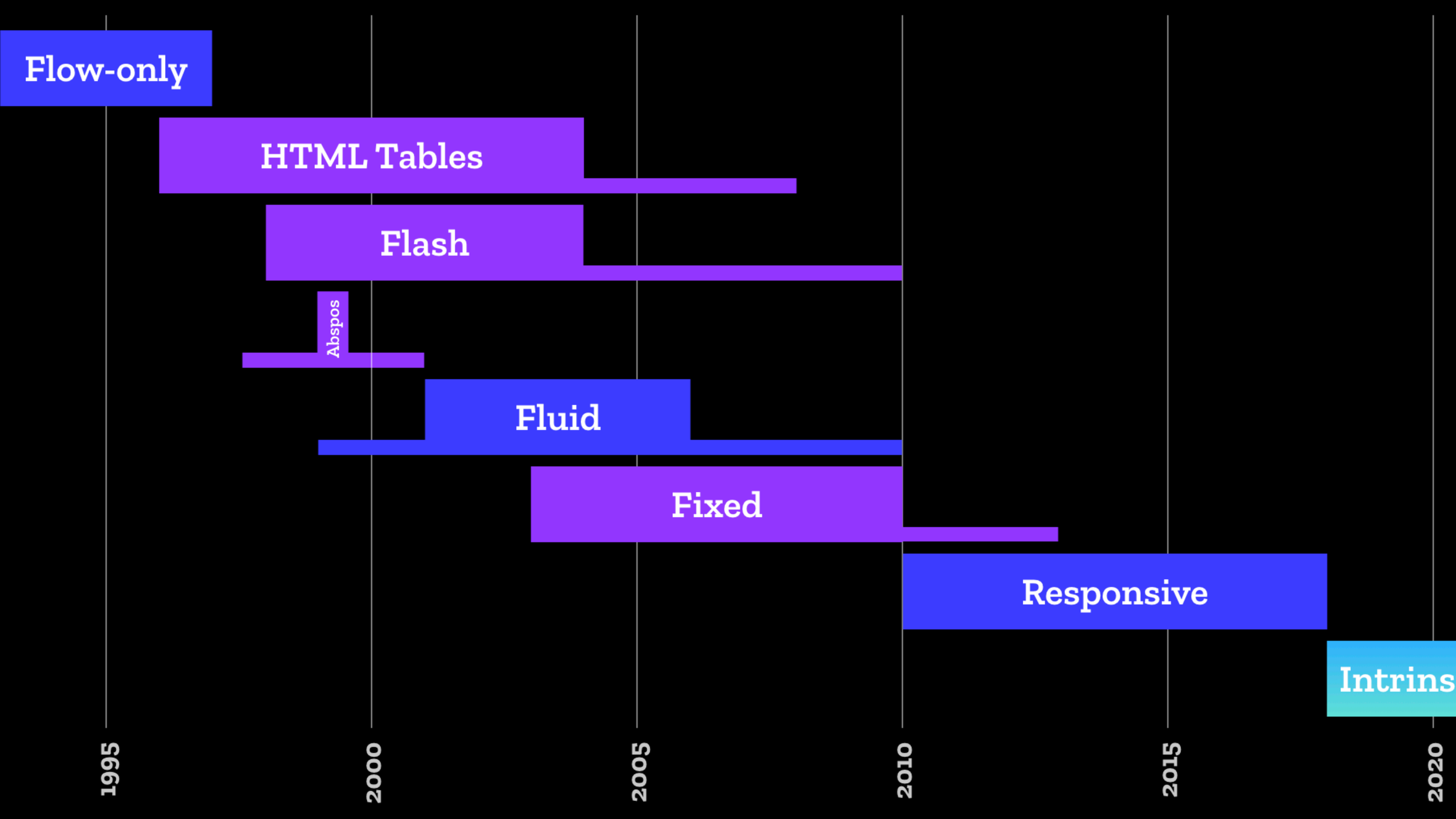
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web.archive.org/web/20110923193215/http://twitter.github.com/boots
Bootstrap
Overview
About
Grid
Layouts
Type
Media
Tables
Forms
Navigation
Alerts
Popovers
Javascript
Less
Bootstrap, from Twitter
Bootstrap is a toolkit from Twitter designed to kickstart development of webapps and sites.
It includes base CSS and HTML for typography, forms, buttons, tables, grids, navigation, and more.
Nerd alert: Bootstrap is built with Less and was designed to work out of the gate with modern browsers in mind.
HOTLINK THE CSS
For the quickest and easiest start, just copy this snippet into your webpage.
<link rel="stylesheet" href="http://twitter.github.
USE IT WITH LESS
A fan of using Less? No problem, just clone the repo and add these lines:
<link rel="stylesheet/less" href="/path/to/bootst
FORK ON GITHUB
Download, fork, pull, file issues, and more with the official Bootstrap repo on Github.
Bootstrap on GitHub »
Currently v1.3.0
About Bootstrap
Brief history, browser support, and more
History
Engineers at Twitter have historically used almost any library they were familiar with to meet front-end requirements. Bootstrap began as an answer to the challenges that presented. With the help of many awesome folks, Bootstrap has grown significantly.
Read more on dev.twitter.com ›
Browser support
Bootstrap is tested and supported in major modern browsers like Chrome, Safari, Internet Explorer, and Firefox.
Latest Safari
What's included
Bootstrap comes complete with compiled CSS, uncompiled, and example templates.
NEW IN 1.3 Javascript plugins
All original .less files
Fully compiled and minified CSS
Complete styleguide documentation
Three example pages with different layouts



drawing by Dave Ellis
novolume.co.uk


Flow-only
HTML Tables
Flash
Abspos
Fluid
Fixed
Responsive
Intrins
1995
2000
2005
2010
2015
2020

Intrinsic Web Design

Flow

Flexbox

CSS Grid

Multicolumn

CSS Grid
Flexbox
Alignment
Writing Modes
Multicolumn
Viewport Units
Transforms
Object Fit
Clip-path
Masking
Shape-outside
Initial-letter

Flow
Floats
Block
Inline
Inline-block
Display: table
Margin
Negative margins
Padding
Positioning

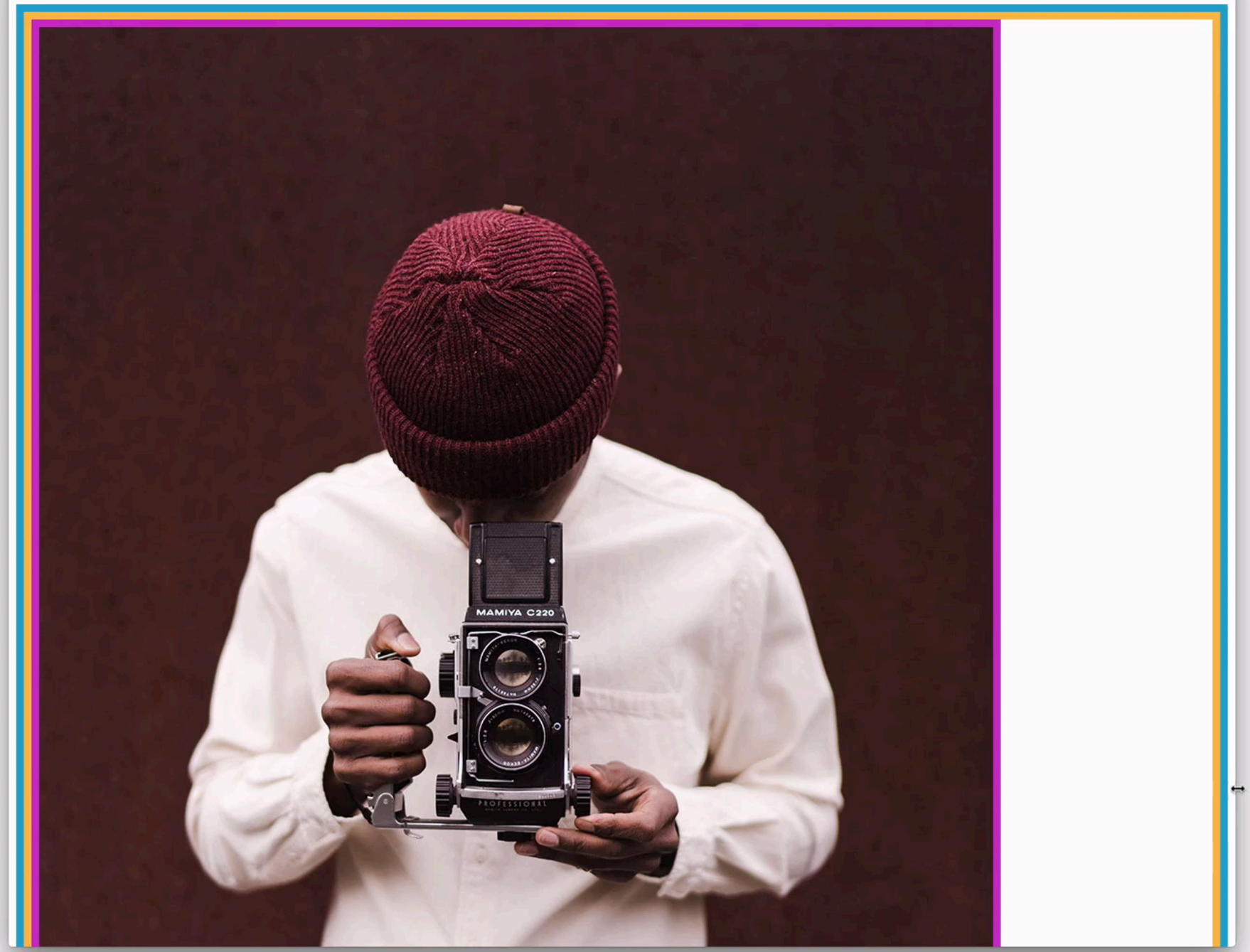
& everything else in CSS

Images

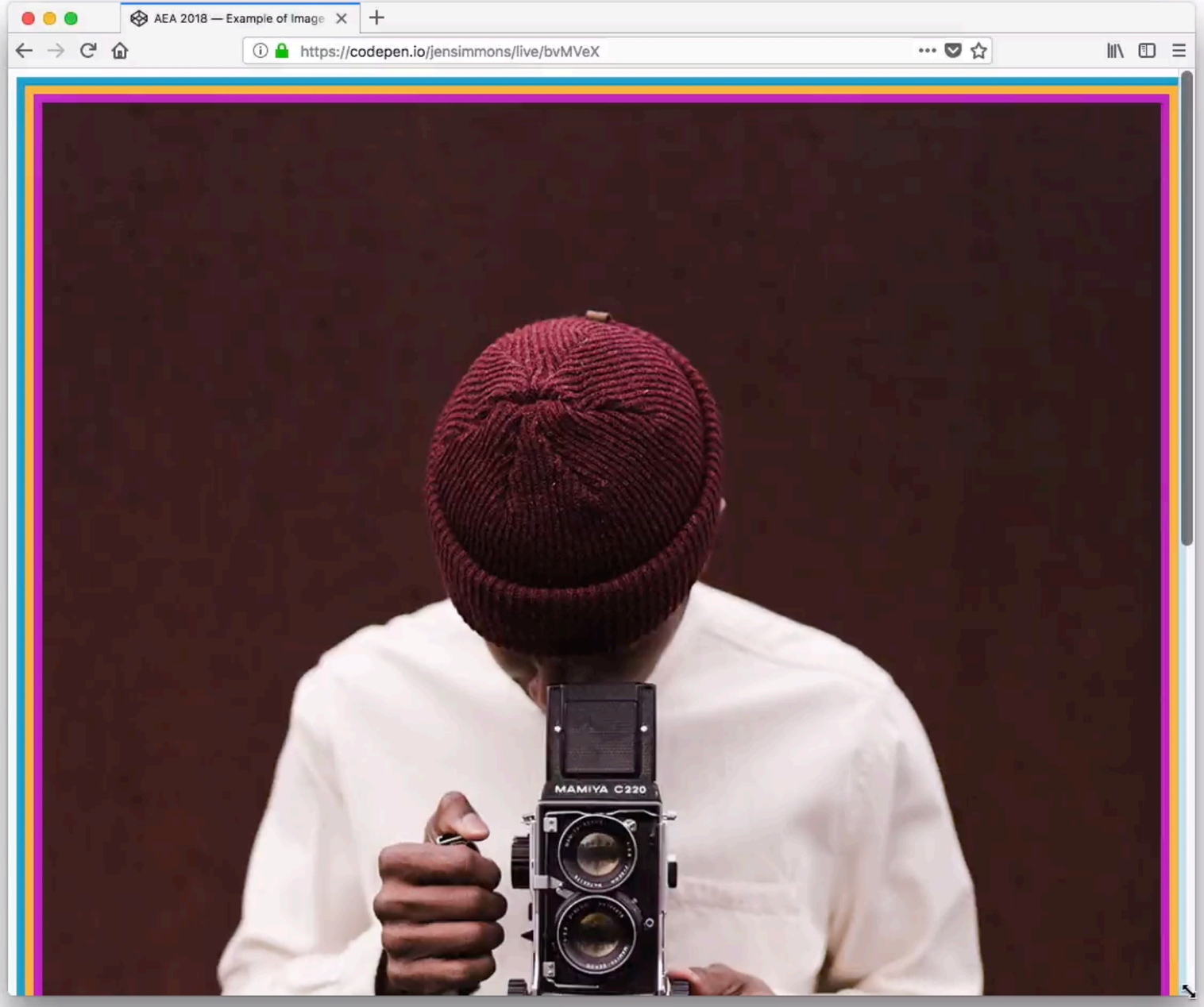
Fixed Images, like pre-RWD

AEA 2018 — Example of Image

https://codepen.io/jensimmons/live/bvMVeX



Fluid Images, like RWD


AEA 2018 — Example of Image
https://codepen.io/jensimmons/live/bvMVeX
MAMIYA C220

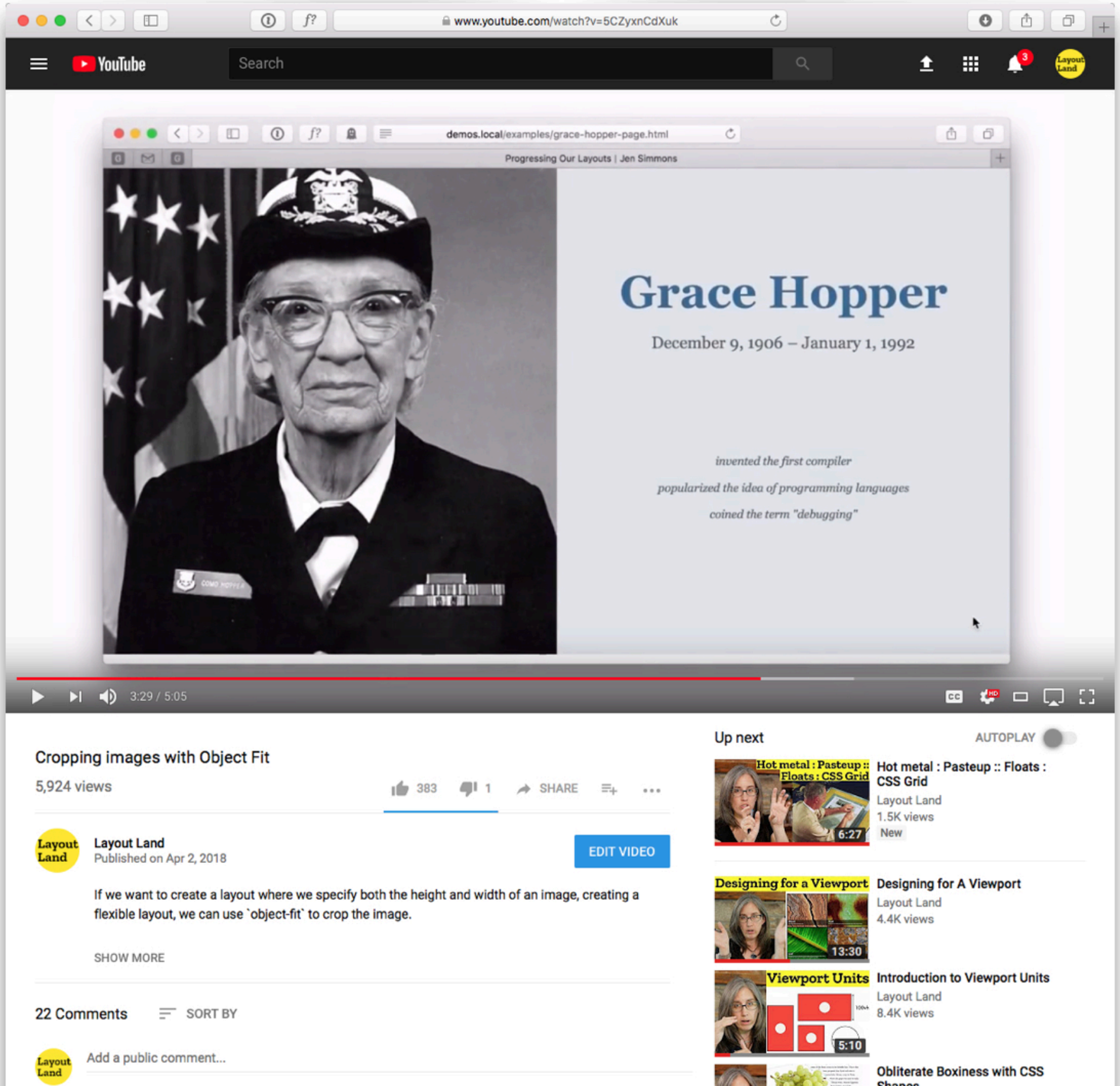
Set width & height

AEA 2018 — Example of Image

https://codepen.io/jensimmons/live/bvMVeX



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object-fit: cover;
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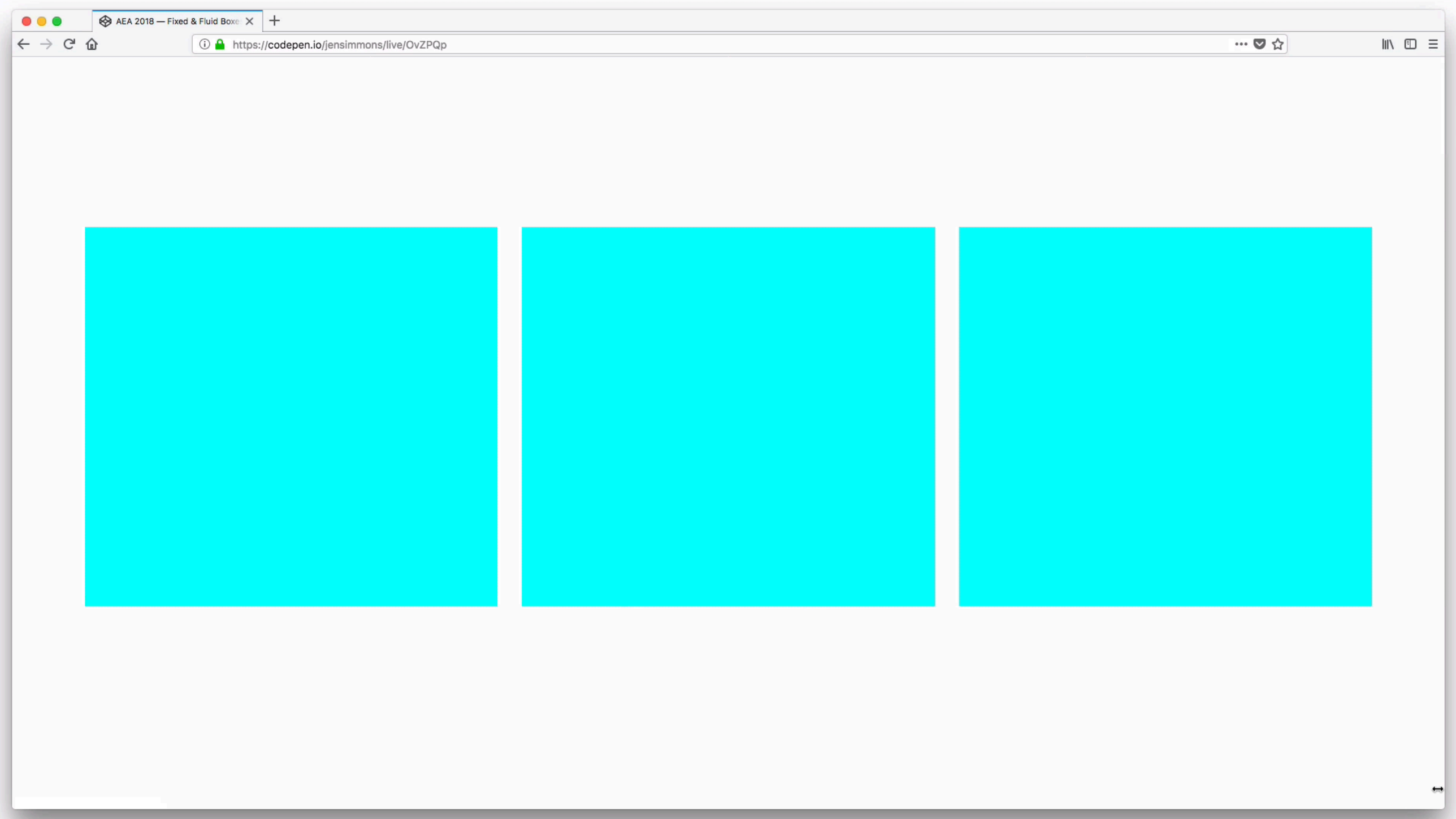
youtube.com/layoutland

CSS Grid tracks (rows & columns)

Responsive Web Design

%

everything squishes at the same rate


AEA 2018 — Fixed & Fluid Boxe
https://codepen.io/jensimmons/live/OvZPQp

FR units (like %s, but better)

minmax()

fixed size

auto

AEA 2018 — Stages of Squish

https://codepen.io/jensimmons/live/dmeMpO

1fr	1fr	1fr	1fr
One	Two	Three	Four
			
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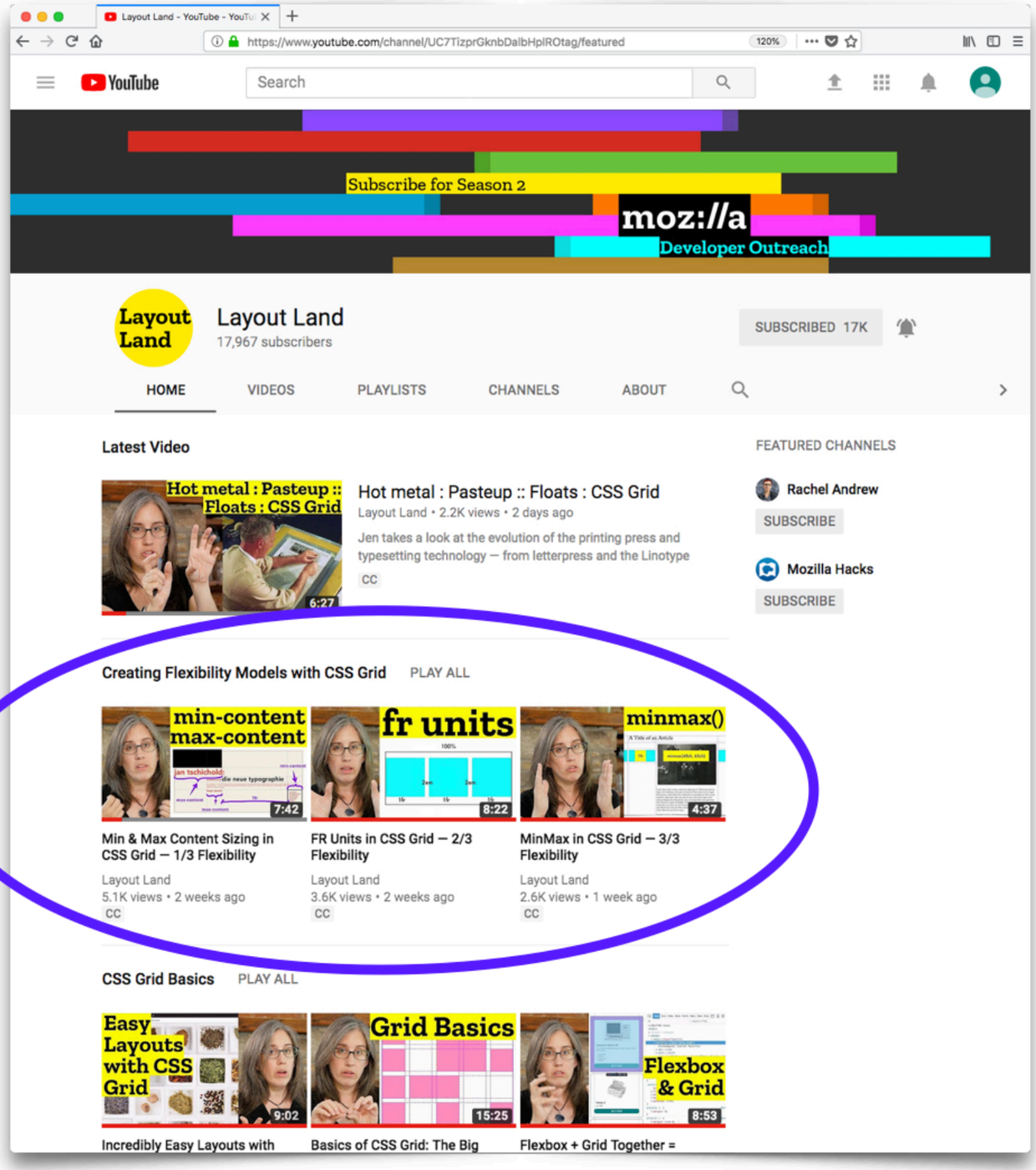
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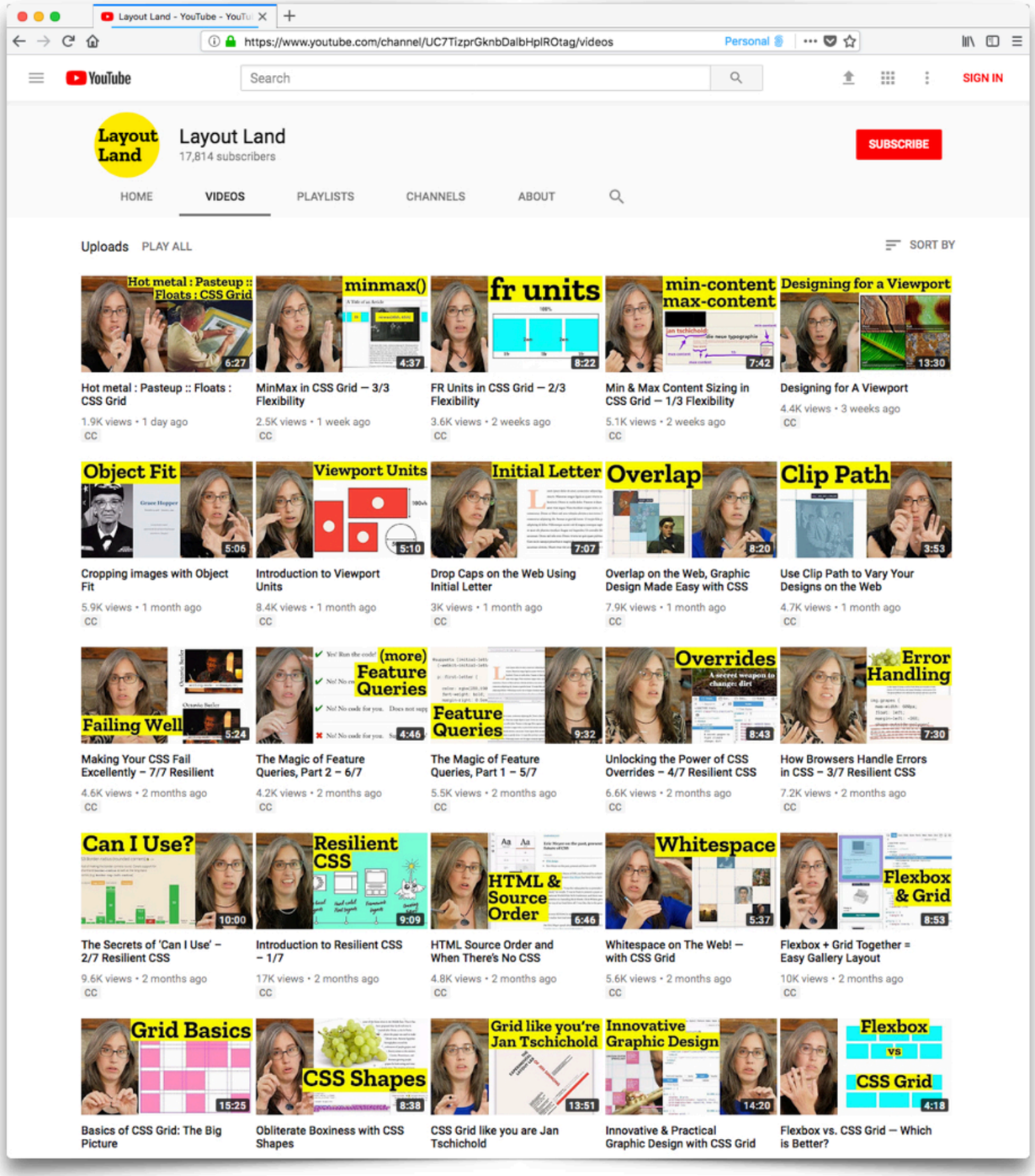
Intrinsic Web Design

The Big Web Show #176

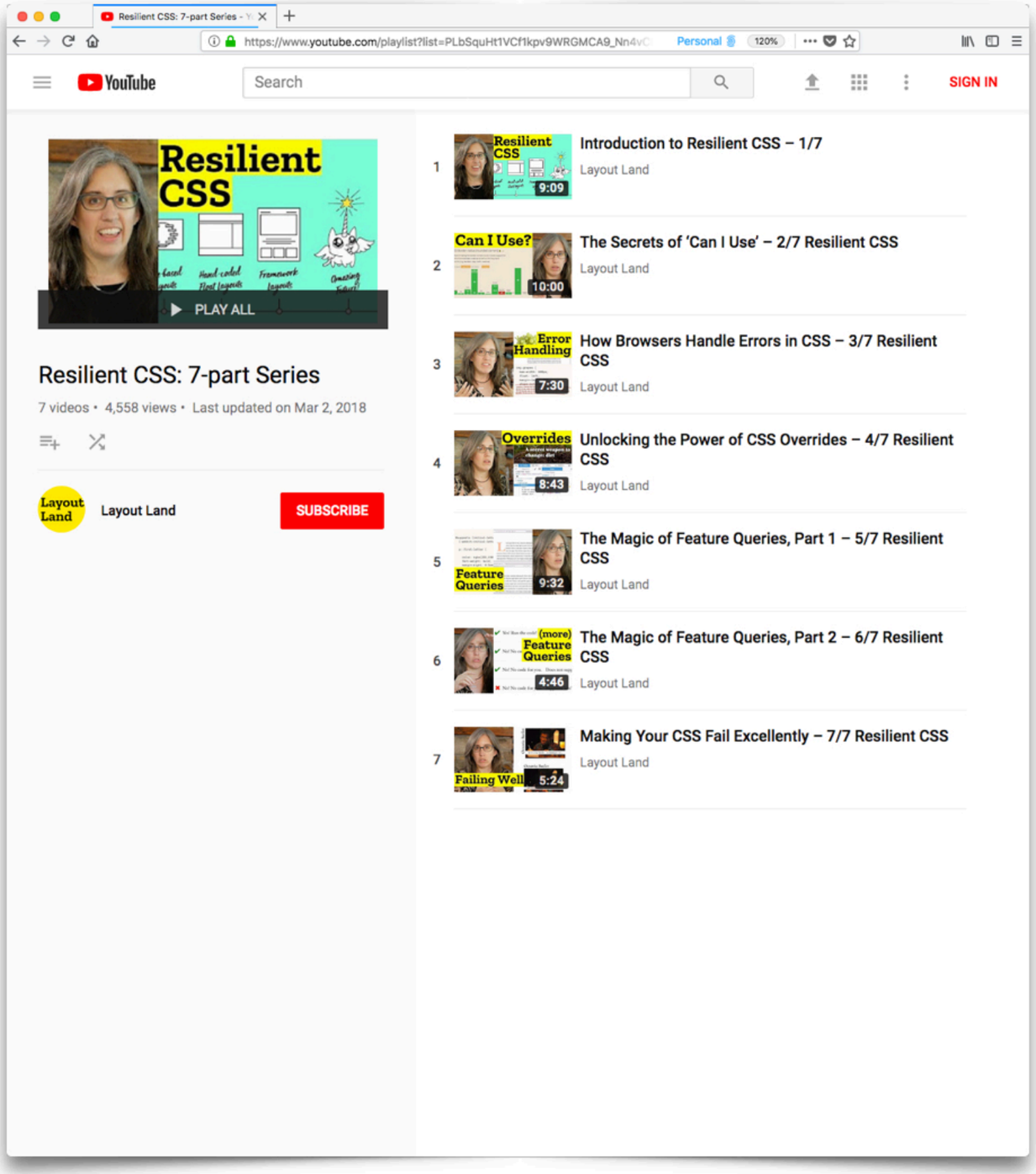


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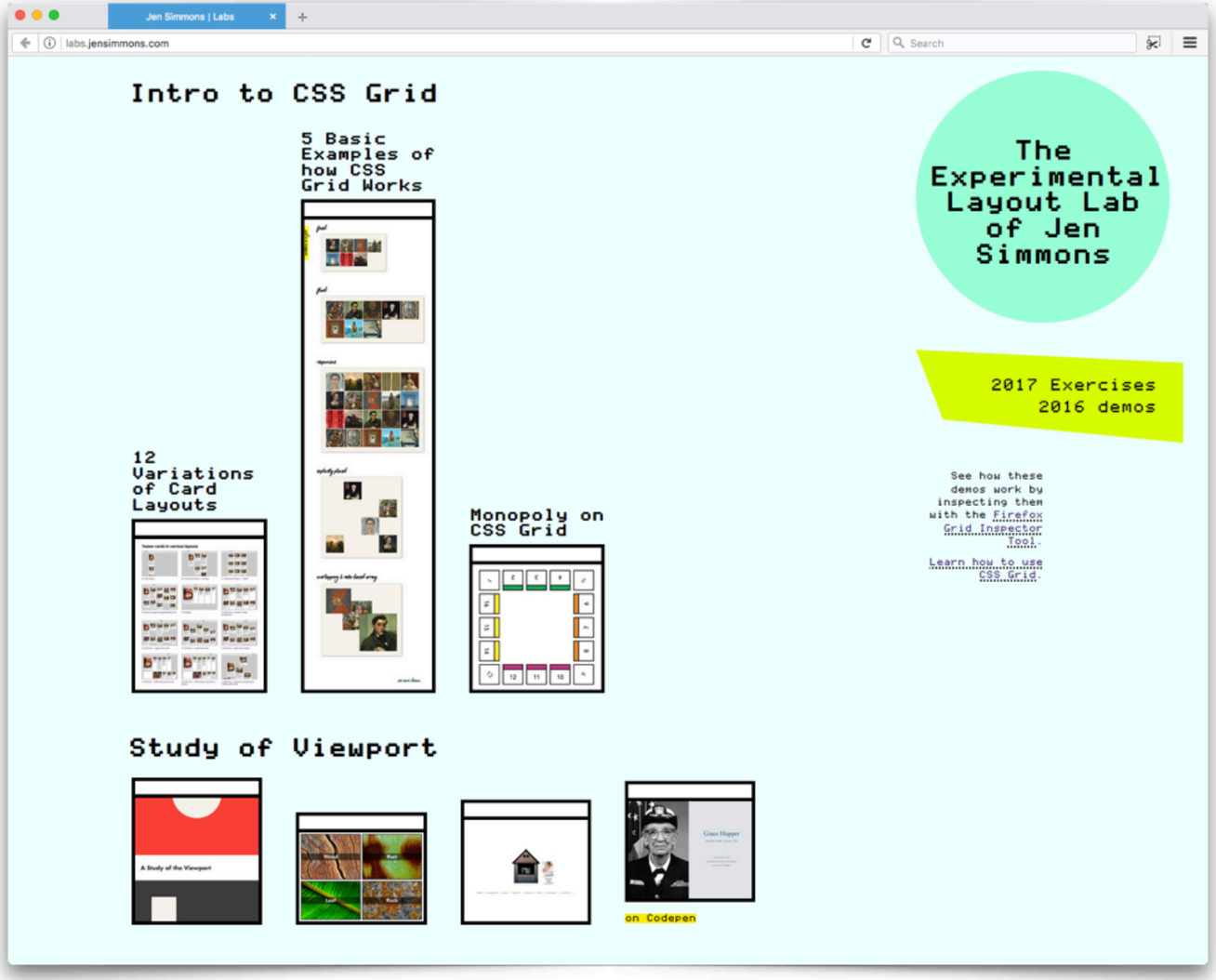




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