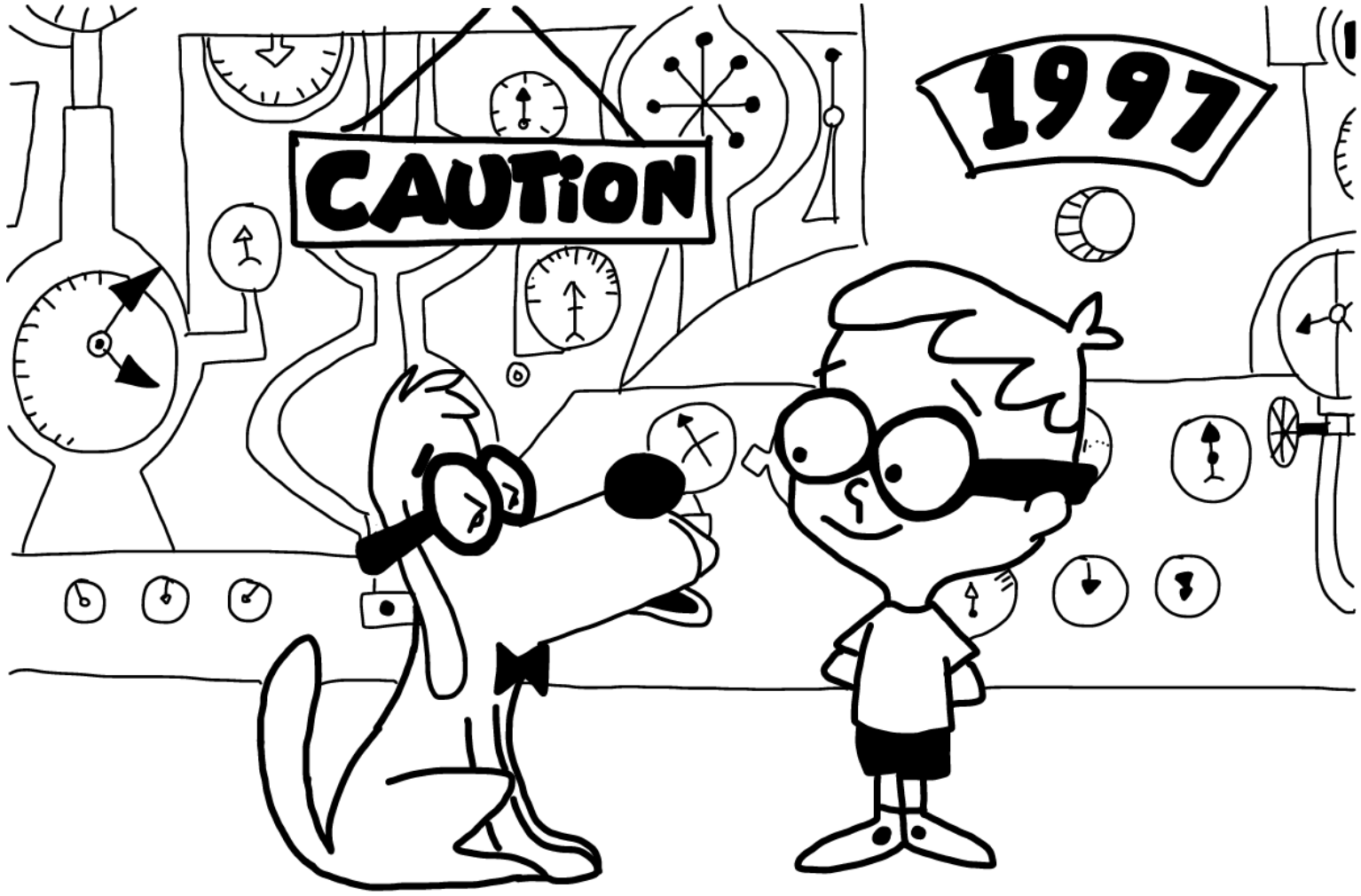
Getting Started with Responsive Web Design

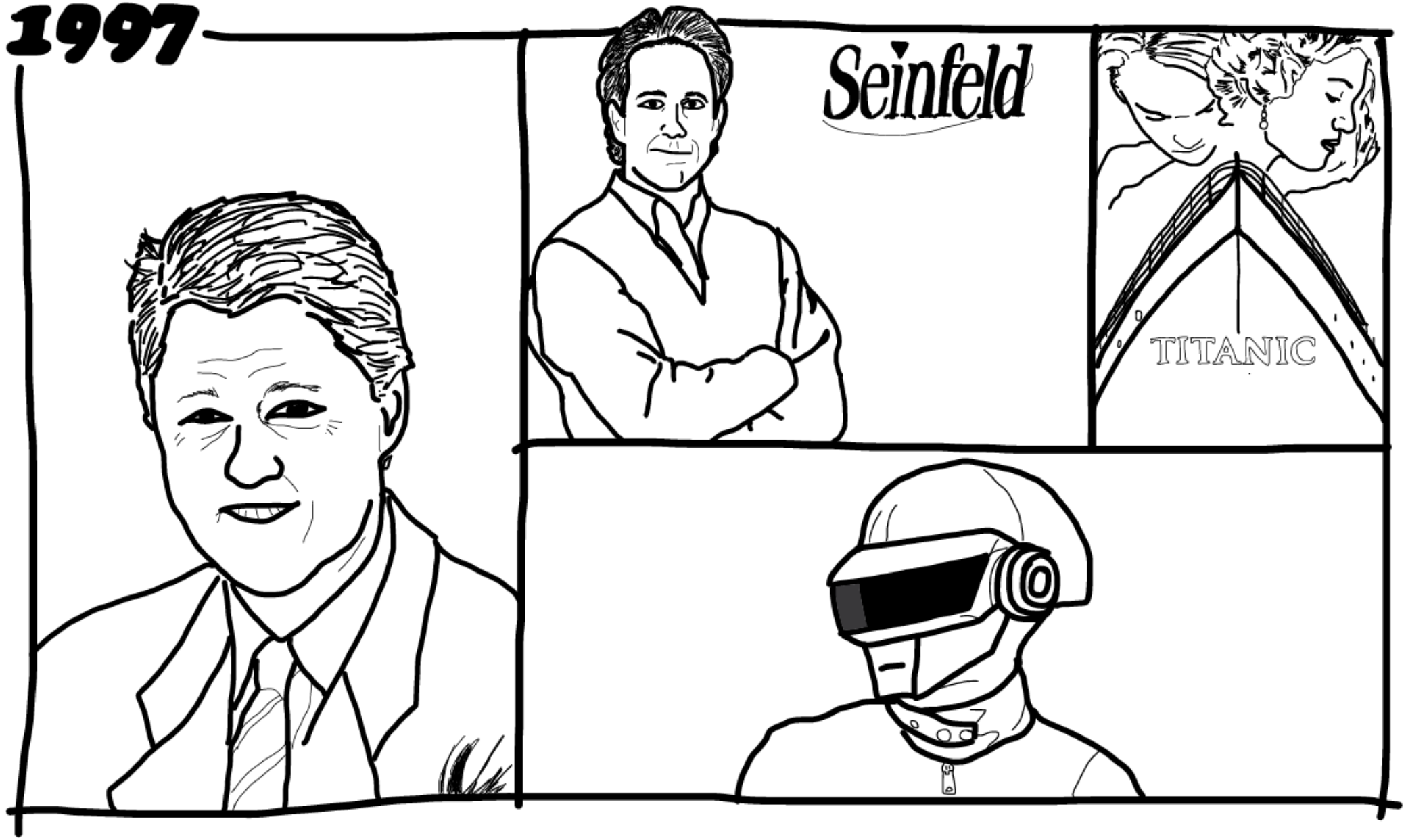
By Brian Rinaldi

@remotesynth

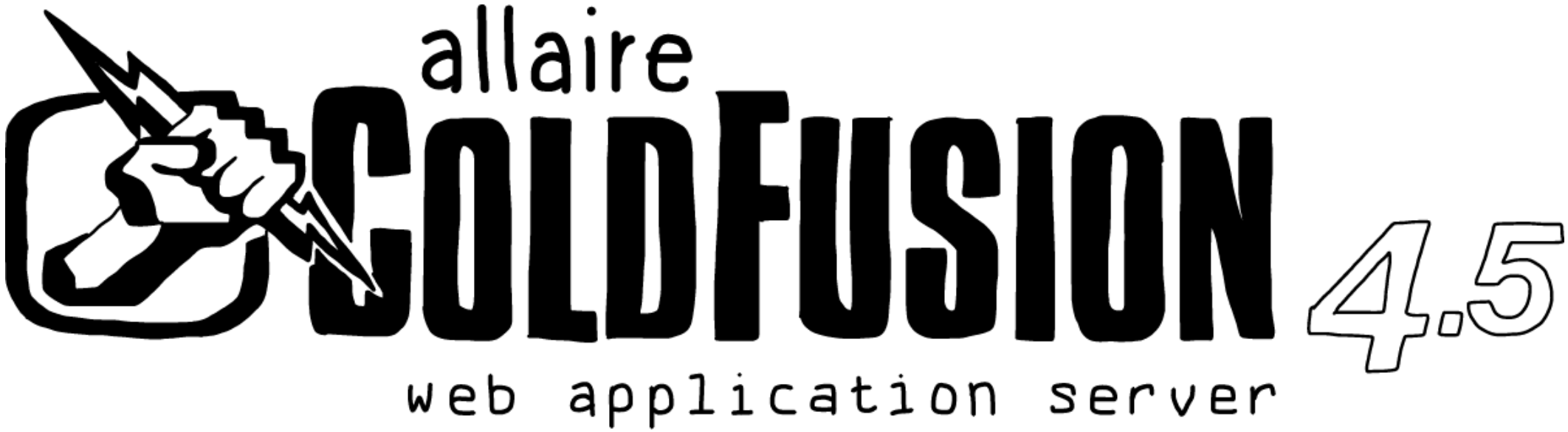
About Me

- Developer Content Manager at Telerik
- Founded the web and mobile developer site Flippin' Awesome
- Tweet the best articles, tutorials and new projects I find about web development @remotesynth
- Old

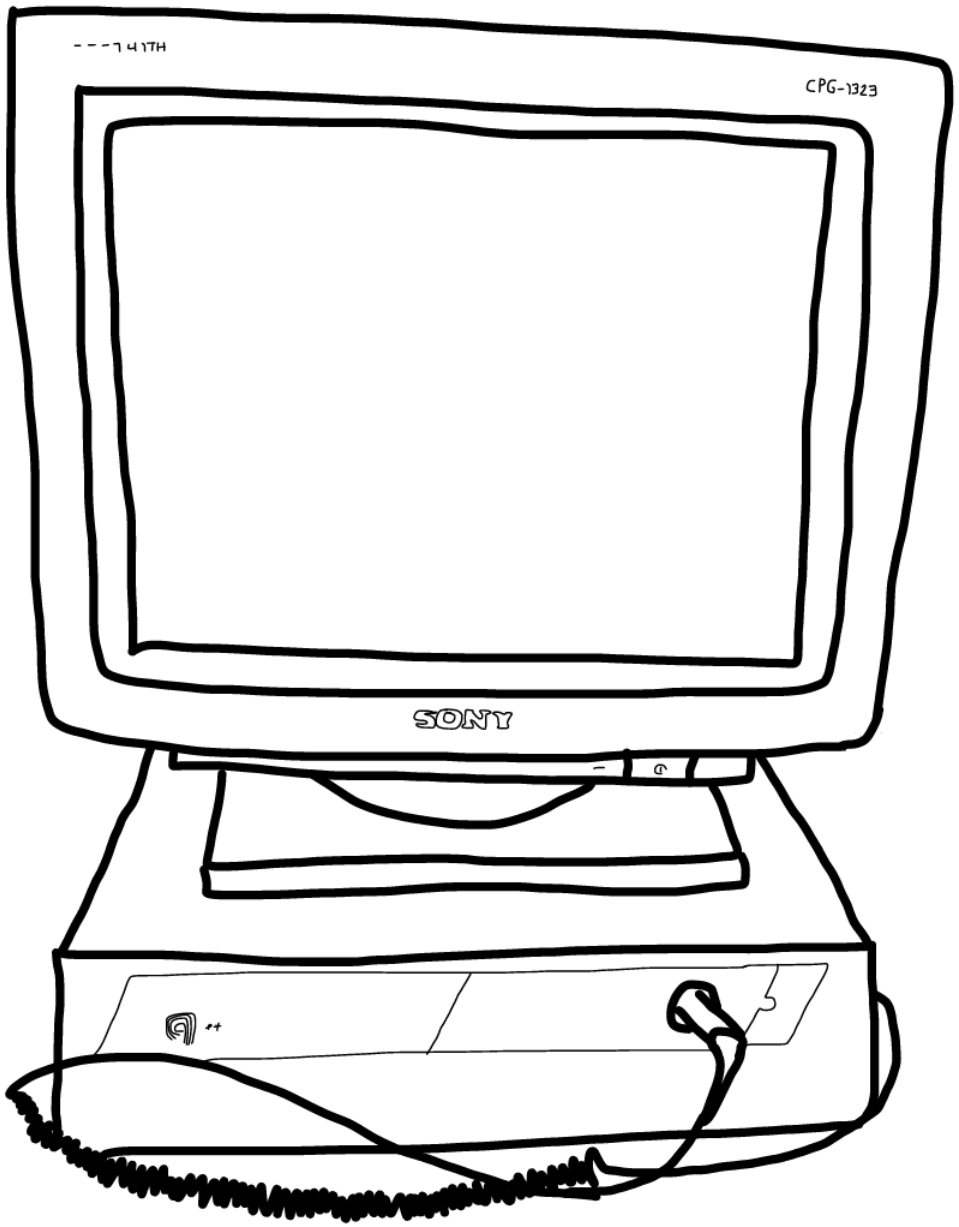

CAUTION
1997


1997
Seinfeld
TITANIC

1998



1998



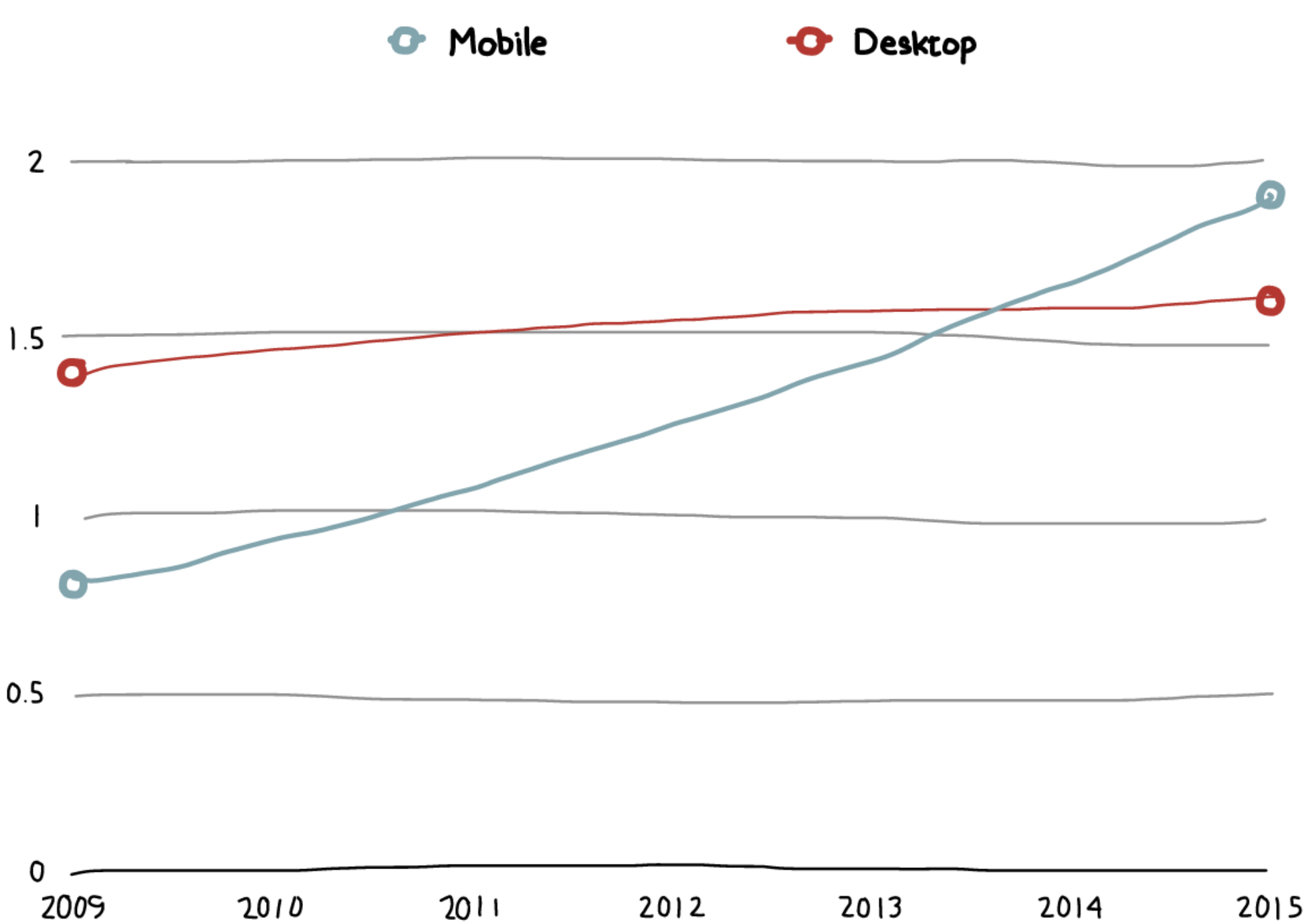
2001

2003

2007

AT&T
9:42 AM
SMS
Text
Tuesday
9
Calendar
Photos
Camera
YouTube
Stocks
280
Maps
73°
Weather
Clock
Calculator
Notes
Settings
N
W
E
S
Phone
Mail
Safari
iPod

2011


Mobile
Desktop
2
1.5
1
0.5
0
2009
2010
2011
2012
2013
2014
2015

3.5 Billion

screens with web content

You can't predict the future.

How does Responsive Web Design Solve this?

Fluid Sizing

```
.header {
    width: 800;
    padding: 10px;
}
```

Vs.

```
.header {
   width: 66.5%
   padding: 0.83%
}
```

Fluid Sizing

```
.header {
    width: 800px;
    padding: 10px;
    font-size: 22px;
}
```

Vs.

```
.header {
   width: 66.5%
   padding: 0.83%
   font-size: 1rem;
}
```

Media Queries

```
@media screen and (min-width: 600px) {
        /* CSS will go here */
}
```

More specificity:

```
@media screen and (-webkit-min-device-pixel-ratio: 2) and (orientation:landscape) {
        /* CSS will go here */
}
```

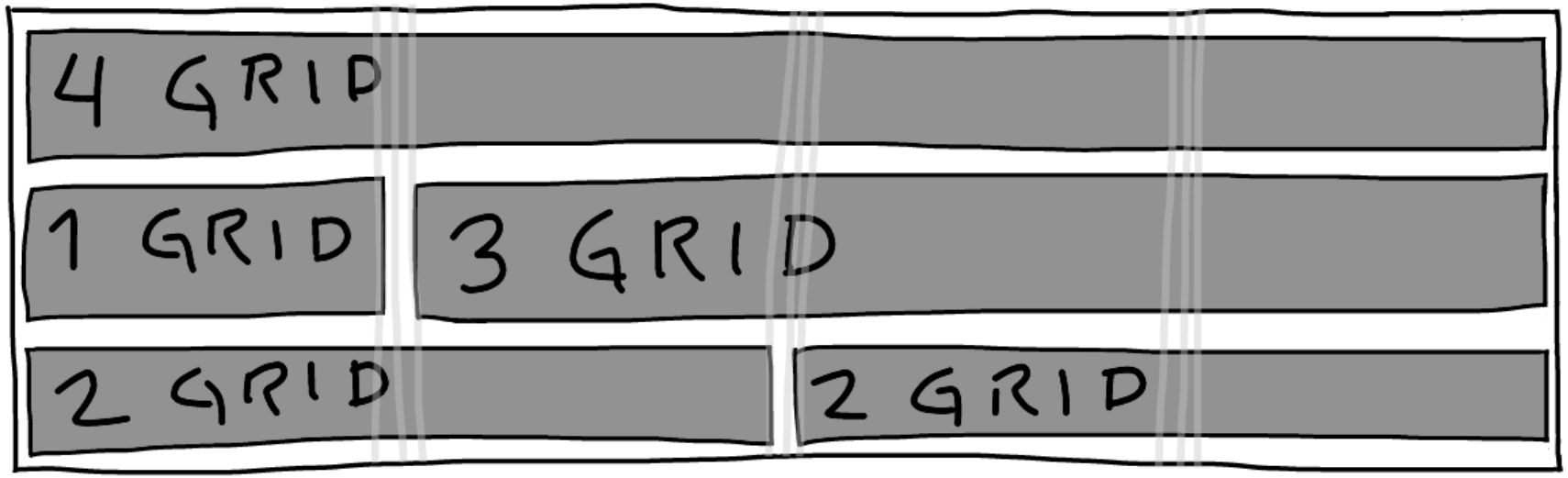
Media Queries

Conditional loading:

```
<!-- non-blocking, low download priority because of the evaluated media query -->

<link href="ipad.css" rel="stylesheet" media="(min-device-width : 768px)
    and (max-device-width : 1024px)">
```

Fluid Grids



Responsive Templates, Tools and Frameworks

	Bootstrap	Foundation v4	Foundation v3	Skeleton
Summary	• Large user base • Grids: Fluid and fixed • UI tools: Lots of widgets; good for rapid prototyping • History: Built by Twitter as a style guide for internal tools	• Medium user base • Grids: Fluid. Best in class grids across all viewports. • UI tools: Powerful and modular set of tools. More style agnostic than Bootstrap. • History: Mobile-first update to the boilerplate developed by ZURB for client projects	• Medium user base • Grids: Fluid. More robust grid tools than Bootstrap and Skeleton. • UI tools: Good for rapid prototyping, but not as expansive as Bootstrap • History: Built by ZURB as boilerplate for client projects	• Medium user base • Grids: Fixed • UI tools: Limited • History: Style agnostic and intentionally lightweight

Source: Responsive CSS Framework Comparison by Vermillion Design

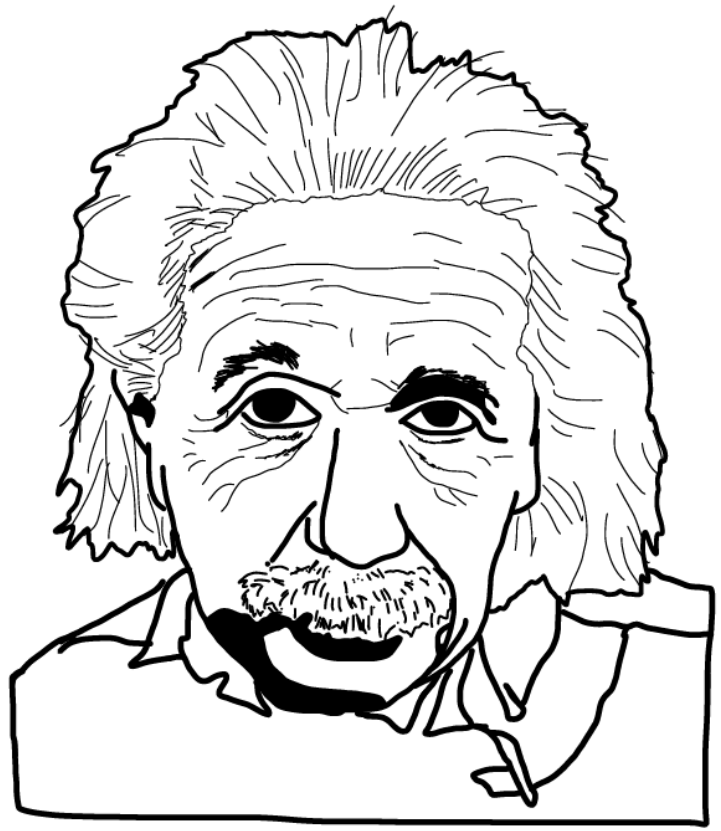
Responsive Templates, Tools and Frameworks

There are a lot of solutions...

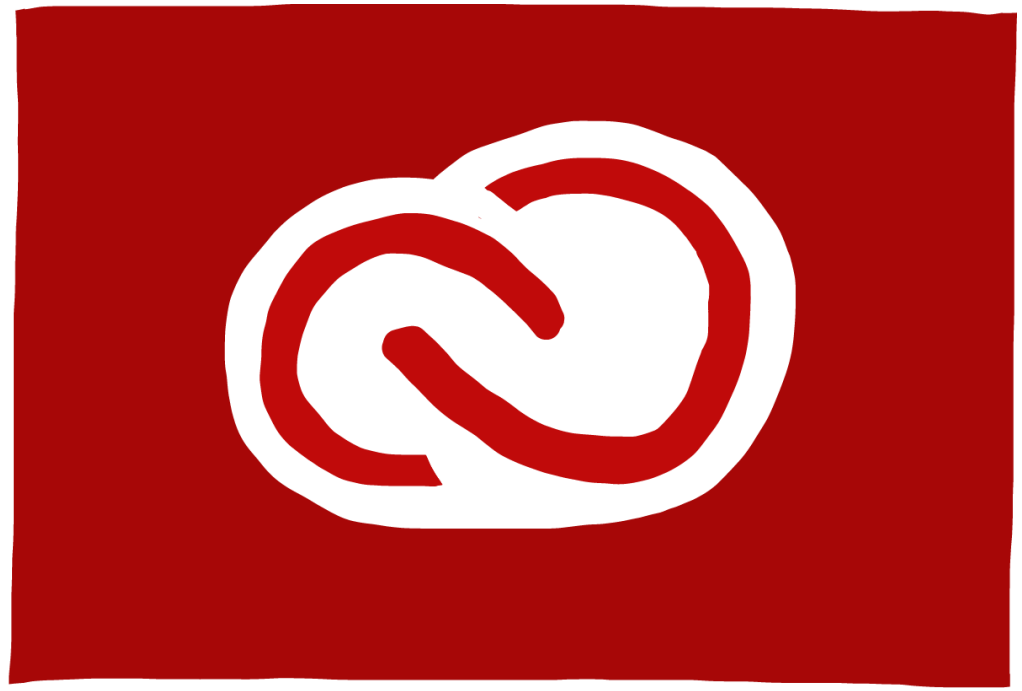
50 fantastic tools for responsive web design by Denise Jacobs and Peter Gasston

85 Top Responsive Web Design Tools by Mashable

?



Rf



Using Reflow (Demo)

- Understanding the interface
  - Media Query Bar
  - Cavas Bar
  - Property Inspector Panel
- Adding Boxes
- Adding Text
- Adding Images
- Adding Breakpoints
- Testing with Edge Inspect

How does this fit my workflow?

- Most current design workflows don't really give responsive the attention it deserves. End up with at least 3 static design files.
- Reflow lets the full responsive intent of the design be visible to both the designer and developer.
- Let's both designer and developer see how layout will look rendered in the browser.
- Gives access to the CSS to assist the developer in translating the design to code.

How does this fit my workflow?

- Responsive design is not just the responsibility of the designer!
- It involves collaboration across teams:
  - Content Strategists/Writers
  - Designers
  - Developers

How does this fit my workflow?

- **Start small (Small-screen first vs. Mobile first)**

  Your content should look good at any size.

- **Build/design to the content, not to a screen size**

  Your content should look good at any size.

- **For existing projects, consider starting from scratch.**

  Retrofitting an old site can often be more work than starting over.

- **Test, test, test**

  Just resizing the browser is not enough. Test on devices.

Follow Reflow

Reflow Twitter: @Reflow

Site: html.adobe.com/edge/reflow

Additional Tools/Links

- Responsive Inspector (Chrome Extension)
- responsivepx
- @media.info
- Brackets RWD Extension (not yet released)
- Responsive Design, Illustrated by Paul Trani

How This Presentation Was Made

Questions?

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