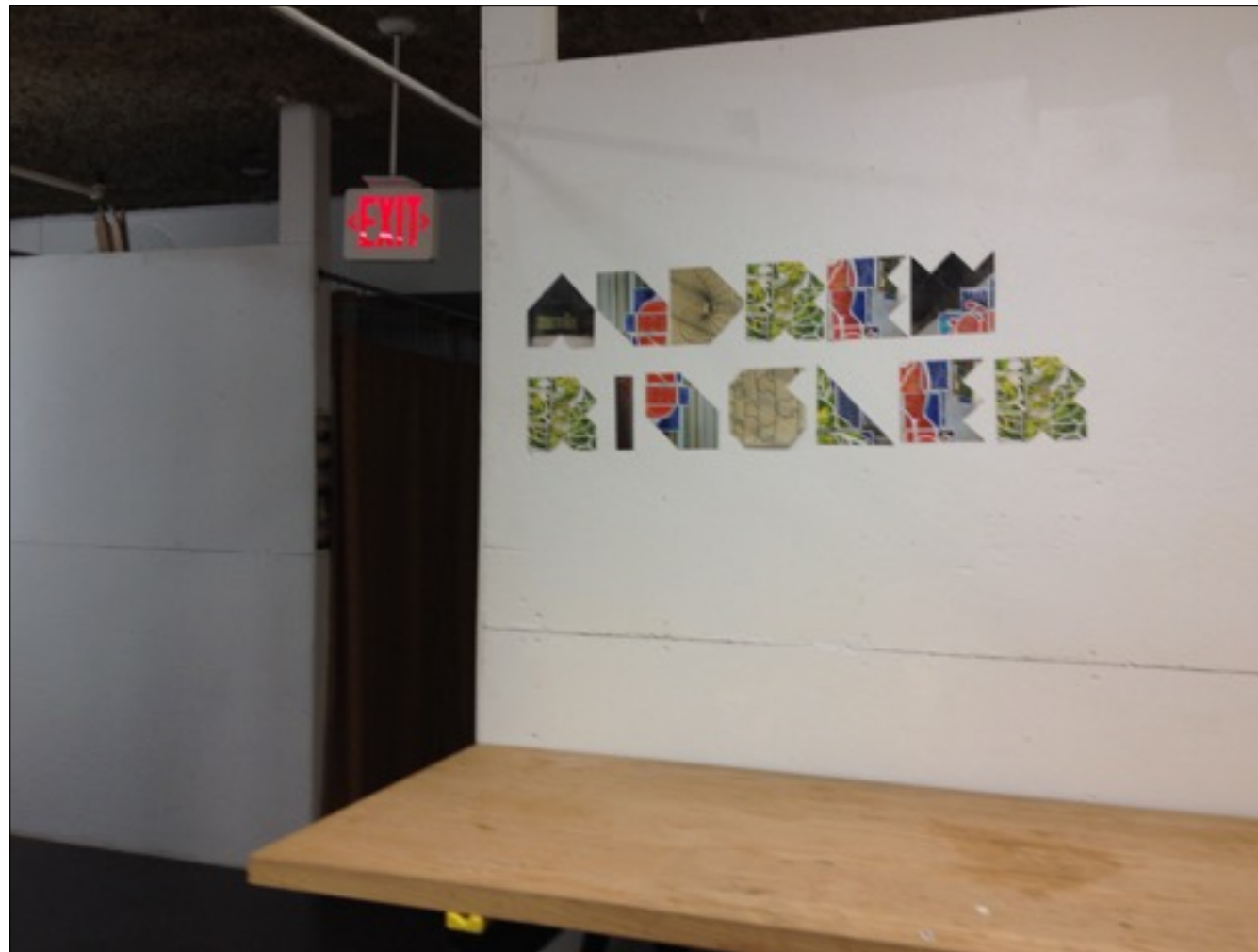


# Introduction to Web Design

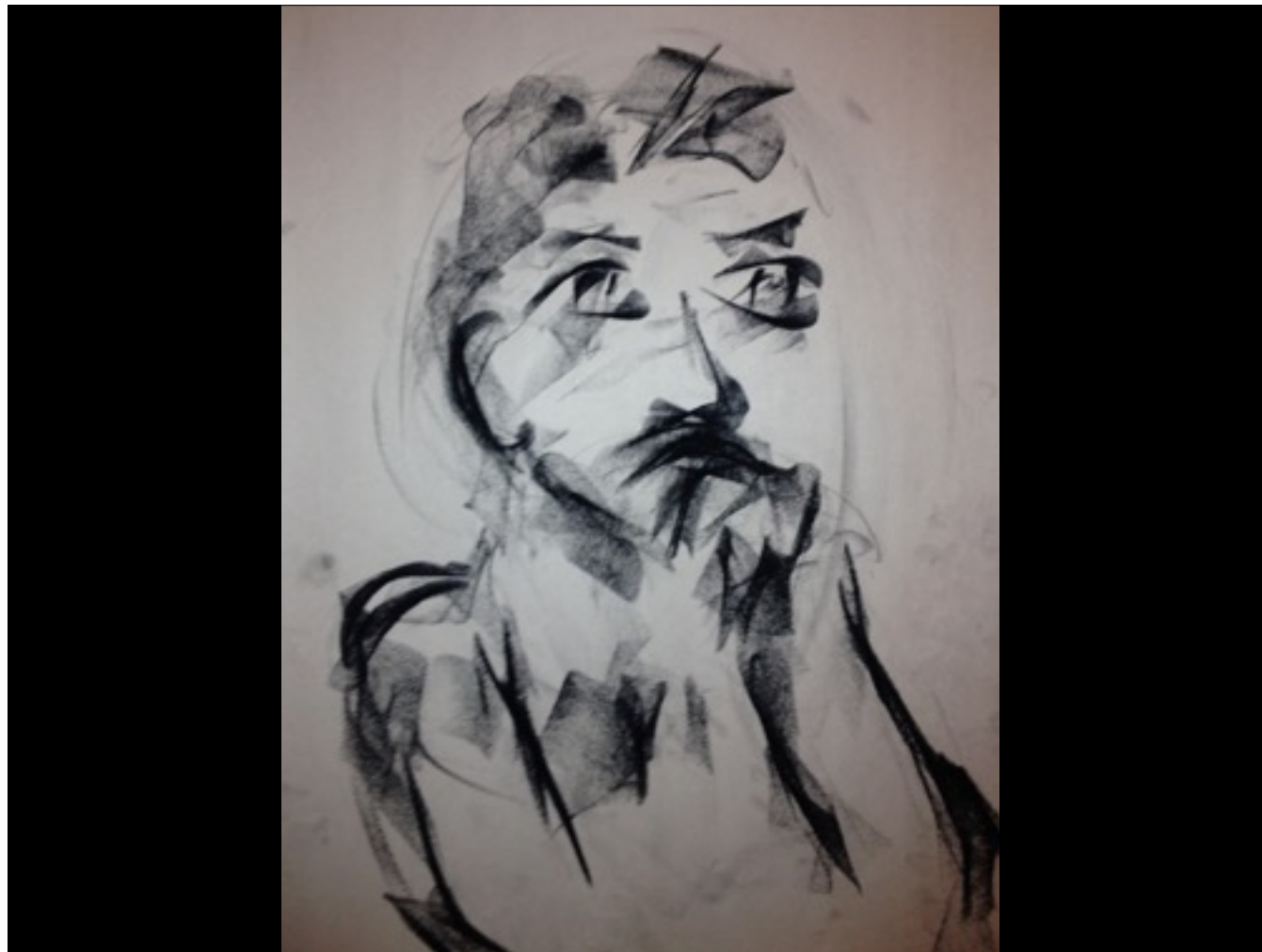


So, first a little bit about me, Andrew Ringler.



I do Improv.

Which means I can stand on a stage with 2 chairs.



I often make charcoal drawings



I make short films.



I make interactive, tactile & collaborative digital art

and I make websites

and I'm a programmer

# Syllabus

go over syllabus

Buy book: HTML and  
CSS by Jon Duckett



Questions

Questions

# What is the Web Today?

the web today

- Commercial: [amazon.com](http://amazon.com)
- Informational: [massart.edu](http://massart.edu),  
[maps.google.com](http://maps.google.com)
- Social: [facebook.com](http://facebook.com), [twitter.com](http://twitter.com)
- Interest: [pinterest.com](http://pinterest.com), [meetup.com](http://meetup.com)
- Games: [zyngagames.com](http://zyngagames.com)

# 1: The Internet

# ARPANET 1969

ARPANET 1969

U.S. sponsored network between universities.

originally just file sharing. then other protocols were added (we'll talk more about protocols later)

the phone network. switching.

<http://www.internetsociety.org/internet/what-internet/history-internet/brief-history-internet#Origins>

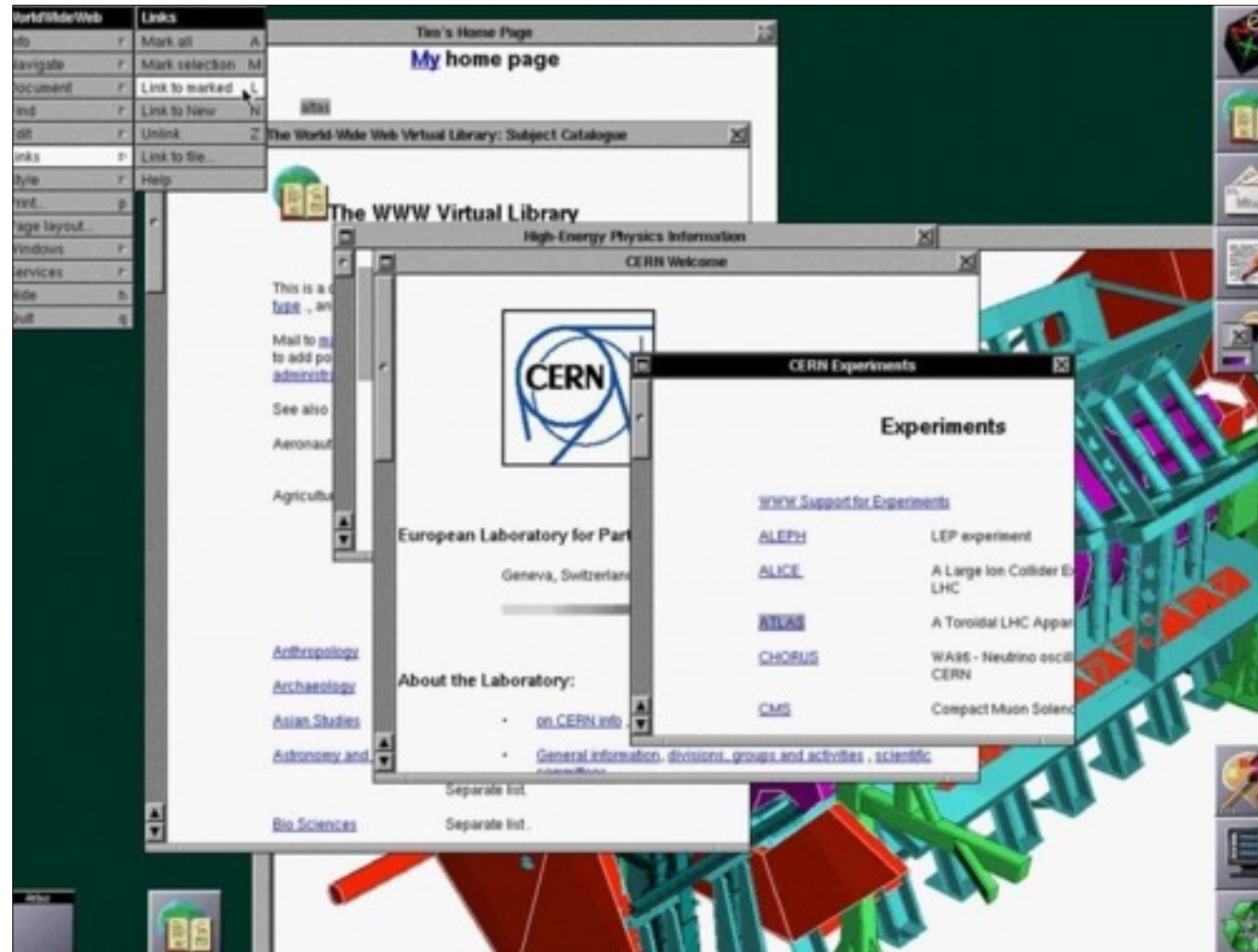
World-Wide-Web

# World Wide Web 1989 by Tim Berners-Lee

<http://home.web.cern.ch/topics/birth-web>

<http://5by5.tv/webahead/85>

what did it look like:



This is actually a 2013 recreation of what it might have looked like to Tim Berners-Lee's using his original computer from the 80s which still runs.

the first website

<http://info.cern.ch/>

in browser, and with line-mode browser



# Files, resources and URLs

By the time the world web came around 1989, the internet (the network of computers) had already been around since the 70s

it already did stuff? can you think of anything it did then?

email, files, URLs



## Not A Series of Tubes: An Internet Primer [video]

watch video (5min)

<http://www.dontfeartheinternet.com/the-basics/not-tubes>

What does a Web  
Designer Do?

design  
development  
front-end vs back-end

Do I Need to Design  
Every Website?

Blogs:

[wordpress.com](https://wordpress.com)

[blogger.com](https://blogger.com)

[tumblr.com](https://tumblr.com)

Portfolio:

[squarespace.com](https://squarespace.com)

[behance.com](https://behance.com)

lots of sites.

Why Should I Then?

more control  
customize platforms (edit CSS)  
design freedom  
designers need an understanding of HTML & CSS



What do I Need to  
Learn?

Need:

a computer

text-editing software (for code)

an internet connection

Skills:

design: experience, visual, information

code: html, css (eventually javascript)

and maybe php

You will not need to learn PHP for this course, but will use some Javascript

# How Does the Web Work?

diagram

The Internet is not the same as the  
World-Wide-Web



IP Addresses  
DNS  
URLs  
default files

IP addresses  
just like phones 617-544-1020

visit a google IP address  
216.58.219.206

windows users: don't use backslash  
called forward by the top, the top faces forward (IE western left-to-right languages)

client vs server

web browsers

resource request cycle



# Some Important Concepts

I am just going to introduce them now, so that you know that they are there. But we will go into them in more detail later in the course and some of these concepts we will refer to throughout the course.

The 1st website still works?  
<http://info.cern.ch/>

Yes. the 1st website still works.

<http://info.cern.ch/>

a system is **backward compatible** if it can work with input generated by an older product or technology such as a legacy system.

—[http://en.wikipedia.org/wiki/Backward\\_compatibility](http://en.wikipedia.org/wiki/Backward_compatibility)

**Forward compatibility** is the ability of a design to gracefully accept input intended for later versions of itself.

—[http://en.wikipedia.org/wiki/Forward\\_compatibility](http://en.wikipedia.org/wiki/Forward_compatibility)

Web Standards

# Progressive Enhancement

Accessibility

Devices



# Responsive Web Design

Performance

Flash

Plus canvas, svg & javascript and how all of these can replace Flash

In-class

Sublime

a non-free good text-editor

In-class:

- text-editor
- file://, browsing the web locally
- document with no structure
- add markup

parsing of html by web-browsers is forgiving  
default styles

anatomy of an HTML page

anatomy of an element



[view source](#)  
[software licenses & creative commons](#)



# Awesome Web

Links from Martha Rettig

<http://marthar.github.io/webspring-2015/1.html#slide-137>

In-class

- [github.com](https://github.com)
- Github Desktop

- Create [github.com](https://github.com) account
- Fork Andrew's student repo
- Customize your student homepage

# Homework #1

introduce homework #1

## Elements for homework:

- h1, h2, h3
- a
- p
- ul, li
- img
- title
- html, head, body, doctype