

# Welcome!

## Find your table

Front

Brenda	Heidi
Jessica	Jessie
Nicole	Linus
Steven	Waitlisted/ Auditors

Week 0

---

# Welcome to Web Design DeCal



400+ applications





wdd staff @ all of u

**YOU'RE DOING AMAZING,  
SWEETIE.**

**A few questions for you...**

# **Why you should be excited for this semester?**



**We're giving you the tools to create...**



=

# Shawn Park

Product Designer at [Discord](#).

I strive to push the world forward by creating a bridge between people and technology.

[Get in touch](#)

니  
자  
바  
이  
있



I am an Interface designer and a product leader based in San Francisco, CA.  
I specialize in creating efficient, yet

I led design at companies of various stages, taking a seed-stage esports startup to a successful exit at Blitz to designing the

[Some amazing things.](#)

Web Design DeCal Spring 2019



WIKIPEDIA  
The Free Encyclopedia

Main page  
Contents  
Featured content  
Current events  
Random article  
Donate to Wikipedia  
Wikipedia store

Interaction  
Help  
About Wikipedia  
Community portal  
Recent changes  
Contact page

Tools  
What links here  
Related changes  
Upload file  
Special pages  
Permanent link  
Page information

Main Page Talk

Read View source View history

Search Wikipedia



Not logged in Talk Contributions Create account Log in

## Welcome to Wikipedia,

the free encyclopedia that anyone can edit.

5,706,265 articles in English

### From today's featured article



The **Sind sparrow** (*Passer pyrrhonotus*) is a bird of the sparrow family, Passeridae, found around the Indus valley region in South Asia. Very similar to the house sparrow, it is smaller and has distinguishing plumage features. This species was long thought to be very closely related to the house sparrow, but its closest evolutionary affinities may lie elsewhere. The male has brighter plumage than female and young birds; it has black markings, a grey crown, and a chestnut stripe running down its head behind the eye. The female has a darker head than other sparrow species do. Its main vocalisations are soft chirping calls that are extended into longer songs. Within its Indus valley breeding range in Pakistan and western India, the Sind sparrow is patchily distributed in riverine and wetland habitats with thorny scrub and tall grass. During the non-breeding season, some birds migrate into western Pakistan and the extreme east of Iran. This fairly common species has been expanding its range. ([Full article...](#))

Recently featured: "Volcano" (South Park) · Ralph Vaughan Williams · Tales of Wonder

- Arts

- Biography

- Geography

- History

- Mathematics

- Science

- Society

- Technology

- All portals

### In the news

- Scott Morrison (pictured) replaces Malcolm Turnbull as Prime Minister of Australia, after a change of Liberal party leadership.
- N. K. Jemisin wins the Hugo Award for Best Novel for a third consecutive time for *The Stone Sky*.
- Former UN Secretary-General and Nobel Peace Prize winner Kofi Annan dies at the age of 80.
- The Asian Games open in Jakarta and Palembang, Indonesia.
- Former Prime Minister of India Atal Bihari Vajpayee dies at the age of 93.



Scott Morrison

Ongoing: Kerala floods

Recent deaths: John McCain · Trudy Stevenson · Robin Leach · Kuldip Nayar

[Nominate an article](#)



# CS 61B

## Data Structures

[Prof. Jonathan Shewchuk](#)

jrs@cory.eecs

(But ask most questions on the [CS 61B Piazza discussion group](#) and send most private requests to cs61b@cory.eecs so the TAs can respond too.)

Spring 2014

Mondays 1–2 pm and Wednesdays noon–2 pm

Wheeler Hall Auditorium

---

Here are some [practice problems for the Final Exam](#).  [PDF](#) Here are the [solutions](#).  [PDF](#)

Please congratulate Jianqiao Yang, Chengming Liao, and Junyan Kang, who as the team **ChaoWeiLanMao** slaughtered the opposition and drank the blood of their enemies in the [Network Tournament!](#) They win [gift certificates to Amoeba Records](#).

The **Final Exam** will take place **Tuesday, May 13 at 8:00 am in 100 Haas Pavilion**. Students in the **Disabled Students' Program** who requested extra time will receive alternative locations by email.

The exam is open book, open notes, and **closed electronics**: if we catch you with electronic devices such as cell phones, laptops, or iPods on your person, **you will get zero on the exam**. Leave them at the front of the room. If your cell phone rings at the front of the room, you lose a point. Please keep your notes under your seat so people passing in front of you don't trip over them.

The TAs will hold a **review session** for the Final Exam this **Saturday, May 10 at 2–5 pm in 2050 Valley Life Sciences Building**.

---

### Textbooks

- Required: [Kathy Sierra](#) and [Bert Bates](#), *Head First Java*, O'Reilly, 2005. ISBN # 0-596-00920-8. (Either the first or second edition will do.)
- Optional: [Michael T. Goodrich](#) and [Roberto Tamassia](#), *Data Structures and Algorithms in Java*, John Wiley & Sons, 2010. ISBN # 0-470-38326-7. (The first, third, fourth, fifth, or sixth editions will do, but the second edition is missing several important data structures.)
- Warning: The reading assignments given below apply to the second edition of Sierra & Bates, and the fifth edition of Goodrich & Tamassia. If you have older editions, you may need to figure out the differences yourself.



You'll be able to find your online identity and turn it from this ...

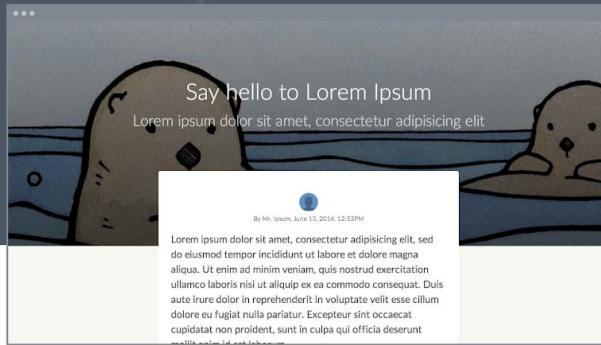
Web Design DeCal Spring 2019

# Web Design DeCal

A 2-unit course for anyone who wants to create a **beautiful** website.

[Log in to WDD Portal](#)

[Learn More](#)



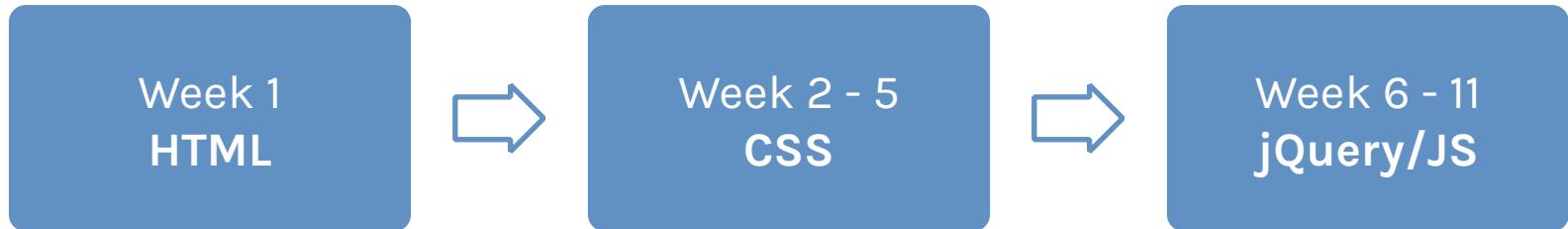
... to this! Learn how to make web beautiful!

Web Design DeCal Spring 2019

**Student examples**  
[bit.ly/wddshowcase](https://bit.ly/wddshowcase)

# **What you'll learn in class**

# Programming section



# Design section



**Confidence to CODE.  
Confidence to DESIGN.  
Confidence to CREATE.**

# **Who are we?**



Jemma Kwak

Junior, Psychology



berkeley innovation design



interested in design???

currently enrolled in eight classes rn

occasional normie meme maker

been here for a while tbh

going pescatarian



Web Design DeCal Spring 2019



Myles Domingo



Sophomore, Computer Science



typical asian cs boi that plays video  
games and watches anime  
but is willing to change **Spring 2019**  
but only after you add me on [LinkedIn](#)



lofi trash



i know some of you out there in the audience its awkward  
please come say hi you can't hide from me forever

Web Design DeCal Spring 2019



**Seth Lu**

Junior, Computer Science

---

watch musicals, movies; enjoy the  
outdoors



# Our amazing teaching staff!



Brenda Zhang



Diana Fan



Heidi Dong



Jessica Chen



Jessie Mindel



Linus Lee



Nicole Chen



Steven Singorahardjo



# **Icebreaker**

## Meet your groups!

# Course logistics

**Monday 7–8:30pm & Wednesday 7–8pm @ 310 Jacobs**

**Monday:** Lecture (**NOT OPTIONAL**)

(Mostly) split into a design and a programming lecture

**Wednesday:** Hands-on/Lab (**NOT OPTIONAL**)

(Mostly) activities like building websites, design sprints, etc.

Homework due (usually) every week, **Monday 7pm**

2 Units DeCal: P/NP

# Course logistics (cont'd)

**Late Homework?** 50% off (but you have 2 free lowest HW drops)

## Absences?

We allow 3 absences

Each absence after 3 absences is -5 points

## Dropping the course?

Please fill out [wdd.io/go/drop](https://wdd.io/go/drop) to let us know, so we can let people off the waitlist as well

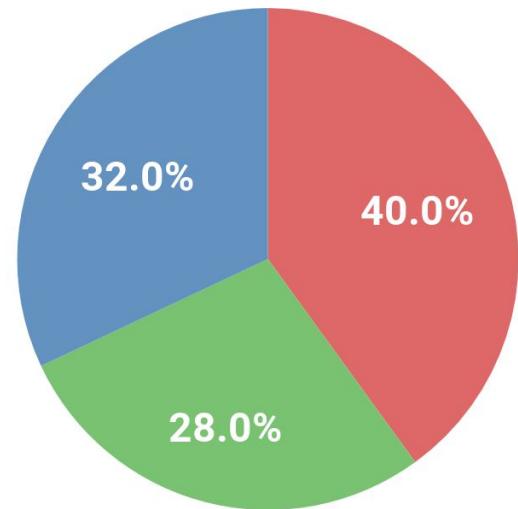
# Grading

There are 100 points.

You must earn **above 70** in order to pass.

You have 3 allowed absences, and each unexcused absence or absence over the limit of 3 will result in -5 points.

- Homework
- Group Project
- Final Project



# WDD Portal

## Our own mini bCourses:

Access lecture slides, hands-ons, etc.

View and submit homework assignments

View grades

Attendance check-ins

In class Q&A queue

## Enrollment for students:

Uncheck “Are you an auditor?”, then type in the course number

Sign up for our Piazza



[piazza.com/berkeley/spring2019/desinv198](https://piazza.com/berkeley/spring2019/desinv198)

If you haven't taken a CS class before, this is our main forum for discussion to ask questions about assignments, as well as our main form for announcements.

Always remember to keep an eye out!

# Piazza Etiquette and Office Hours

## Ask questions on Piazza

DES INV 198: Web Design DeCal

Post screenshots of the web page so we can understand your problem better

**If you have screenshots or snippets of actual code,  
please post it privately (instructors only)**

## Office hours (yes, office hours for a DeCal)

Almost every day! Add it to your calendar: [wdd.io/go/OH](https://wdd.io/go/OH)

**Anonymous feedback**   
[wdd.io/go/feedback](https://wdd.io/go/feedback)

Tell us anything you think that's good/bad with the course  
(yes, we check this daily)

# Ethics

Only scary if you're unethical.

# Ethics Ethics Ethics

**Certain resources are completely prohibited:**

Twitter Bootstrap

Foundation

Semantic UI

... or any other HTML template site

# Ethics Ethics Ethics

## Homework

No outside resources allowed

## Projects

No HTML/CSS resources allowed

Yes, JavaScript plugins allowed  
(more on this later)

# Ethics Ethics Ethics

Consider the following case studies:

- Person A copy-pastes sections of code from a website  
**No good**
- Person B has some experience and submitted a website B created before the class  
**No good**
- Person C writes the front end code from scratch and submits C's own work  
**Yes good**

# Ethics Ethics Ethics

## Punishments for no good

We have no choice but to fail you in the course and report you to Student Conduct.

We don't want to be mean :(

**"Plagiarism is defined as use of intellectual material produced by another person without acknowledging its source, for example: Wholesale copying of passages from works of others into your homework, essay, term paper, or dissertation without acknowledgment. Use of views, opinions, or insights of another without acknowledgment. Paraphrasing of another person's characteristic or original phraseology, metaphor, or other literary device without acknowledgment."**

# Questions?

Quick poll

Quick Intro to Websites

or

Enrollment on CalCentral & Portal?

**Quick intro to websites, time permitting**

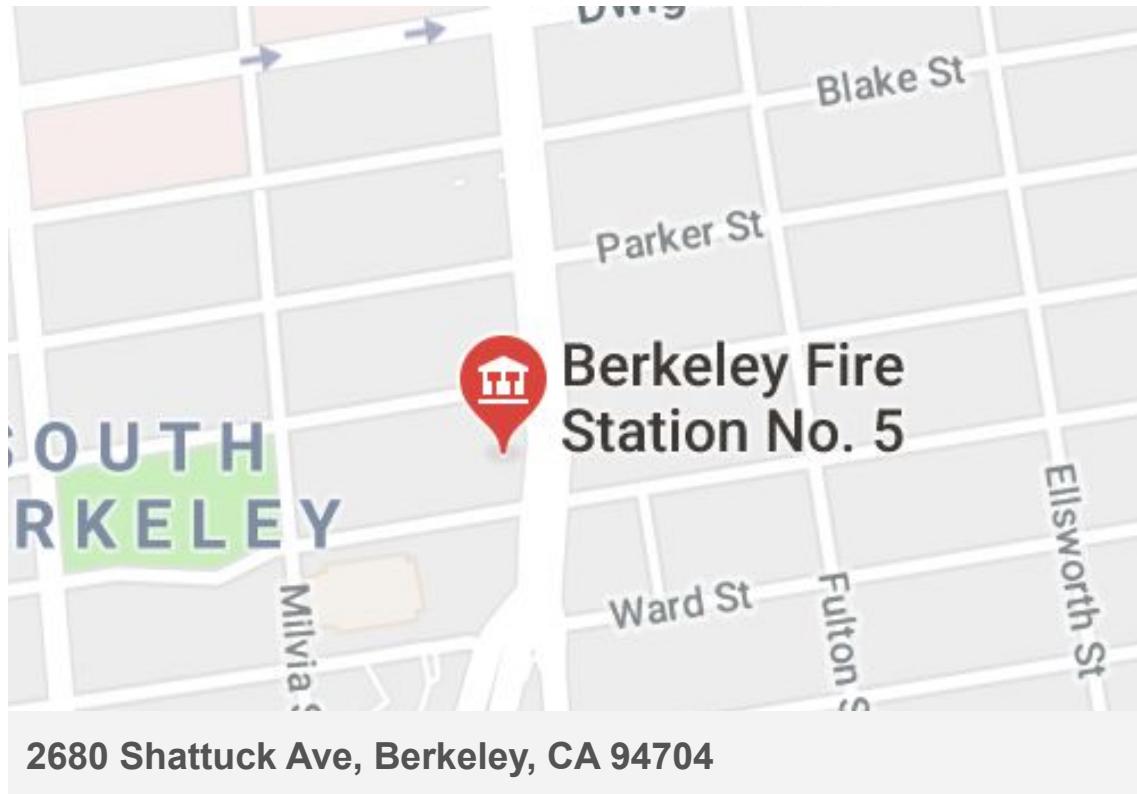
# What is a website?

A **website** is traditionally a set of web pages served on a single domain

A **web page** is a document, usually written in HTML

A **domain** is an address (wdd.io) that represents a server where the files are located

"Fire station"



Look up the address

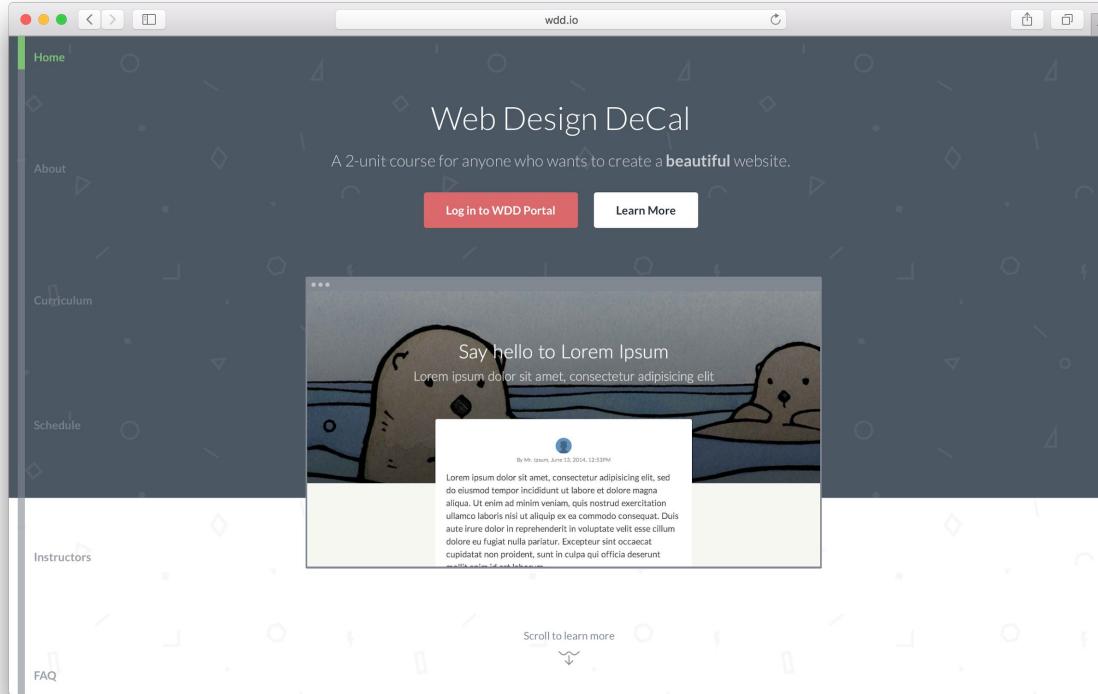
Web Design DeCal Spring 2019



Look up the address

Web Design DeCal Spring 2019

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0  
Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">  
<head>  
    <title>Web Design DeCal</title>  
    <meta name="description" content="A 2 unit course in UC Berkeley for anyone who wants to create a  
beautiful website." />  
    <meta property="og:title" content="Web Design DeCal" />  
    <meta property="og:url" content="http://www.wdd.io/" />  
    <meta property="og:image" content="http://www.wdd.io/static-thumbnails/logo.png" />  
    <meta property="og:description" content="A 2 unit course in UC Berkeley for anyone who wants to  
create a beautiful website." />  
    <meta property="og:site_name" content="Web Design DeCal" />  
    <meta name="twitter:title" content="Web Design DeCal">  
    <meta name="twitter:description" content="A 2 unit course in UC Berkeley for anyone who wants to  
create a beautiful website.">  
    <meta name="twitter:image" content="http://www.wdd.io/static-thumbnails/logo.png">  
    <link href='http://fonts.googleapis.com/css?family=Lato:300,400,700' rel='stylesheet'  
type='text/css'>  
    <link rel="stylesheet" type="text/css" href="/static/css/promotional.css" />  
    <link rel="shortcut icon" href="/static/icons/favicon.ico" />  
    <script type="text/javascript" src="/static/js/vendor/jquery-1.8.3.min.js" charset="utf-8"></script>  
    <script type="text/javascript" src="/static/js/vendor/jquery-ui-1.9.2.min.js"  
charset="utf-8"></script>
```



Render code on canvas

Web Design DeCal Spring 2019

# Two ends of a website (*roughly speaking*)

## Front end

What users can see &  
what happens in your web browser  
e.g. text, images, buttons

## Back end

What users can't see &  
beyond your web browser  
e.g. business logic, data storage

# What websites are made of

HTML



Structure

CSS



Design

JavaScript



Function

**HTML provides the structure of the page**

A well-written HTML document should be  
"understandable" without a stylesheet

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0  
Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">  
<head>  
    <title>Web Design DeCal</title>  
    <meta name="description" content="A 2 unit course in UC Berkeley for anyone who wants to create a  
beautiful website." />  
    <meta property="og:title" content="Web Design DeCal" />  
    <meta property="og:url" content="http://www.wdd.io/" />  
    <meta property="og:image" content="http://www.wdd.io/static-thumbnails/logo.png" />  
    <meta property="og:description" content="A 2 unit course in UC Berkeley for anyone who wants to  
create a beautiful website." />  
    <meta property="og:site_name" content="Web Design DeCal" />  
    <meta name="twitter:title" content="Web Design DeCal">  
    <meta name="twitter:description" content="A 2 unit course in UC Berkeley for anyone who wants to  
create a beautiful website.">  
    <meta name="twitter:image" content="http://www.wdd.io/static-thumbnails/logo.png">  
    <link href='http://fonts.googleapis.com/css?family=Lato:300,400,700' rel='stylesheet'  
type='text/css'>  
    <link rel="stylesheet" type="text/css" href="/static/css/promotional.css" />  
    <link rel="shortcut icon" href="/static/icons/favicon.ico" />  
    <script type="text/javascript" src="/static/js/vendor/jquery-1.8.3.min.js" charset="utf-8"></script>  
    <script type="text/javascript" src="/static/js/vendor/jquery-ui-1.9.2.min.js"  
charset="utf-8"></script>
```

**CSS provides the design of the page**

Just several lines of "code" is enough to create "design"  
shapes, color, buttons, you name it

```
body {
  margin: 0;
  font-family: 'Lato', sans-serif;
  background: #f7f5f2;
  -webkit-font-smoothing: antialiased;
}

a {
  color: inherit;
  text-decoration: none;
}

.img-scaled {
  width: 100%;
}

.img-scaled-wh {
  width: 100%;
  height: 100%;
  object-fit: cover;
}

.clear {
  clear: both;
```

**JavaScript provides the function of the page**

What will happen to websites with JavaScript disabled?

```
function resize_dom(window_height) {
    $('.schedule-item')
        .css('padding-top', (($(window).height() - window_height) / 2) + 'px');
    $('.schedule-item:nth-child(12)')
        .css('padding-bottom', (($(window).height() - window_height) / 2) + 'px');
    $('#apply-header').css('height', $(window).height() - 180 + 'px');

    setTimeout(function(){
        scheduleOffsetDict = {};
        $('.schedule-item').each(function(i){
            scheduleOffsetDict[$(this).position().top - 120] = i;
        });
    }, 100);
}

function set_cover() {
    var offsetY = $(window).height() * 0.7 - 340;
    $('.window-container').css('top', offsetY);
}

$(document).ready(function(){

    set_cover();
})
```

# Takeaway

HTML



Structure

CSS



Design

JavaScript



Function

**Attendance Word: doner**  
**CCN for Web Design DeCal: 33229**

Please use the CCN when signing up on WDD portal: [wdd.io](http://wdd.io)

If you got a little too excited before class and signed up already, come find the co-instructors

**Your TA will hand out your permission code**  
**Have your ID's out!**

Join the [Spotify Playlist](#)