

Lesson Plan: HTML/JS 1-Day Workshop

This is a lesson plan I developed for GirlDevelopItSF for a group of 20 adult women who wanted to learn web development in a short period of time - 6 hours on a Sunday.

Email me with questions at compsci-feedback@khanacademy.org.

Facilitator Prep:

- Create a class from your teaching khanacademy.org account.
- Create the doc to share with students, [like this one](#).
- Make $(4 * \text{num_students} / 2)$ printouts of [Pairing Time doc](#).
- Send reminders to students about completing the review quiz beforehand.

TA prep:

- Try out the [Khan Academy webpage environment](#) and one of the [HTML/JS challenges](#).

Schedule:

11:00	Setup tables, name tags
11:30	Students start arriving, eating lunch, setting up their laptops
12:00	Welcome, start round of introductions with an intro quick question
12:10	Go over basic logistics
12:15	Introduce yourself to person nearest to you, with an intro question
12:20	Talk about the structure for workshop - self-paced learning, *skip* the projects and keep going, then we pair on projects together.
12:25	Watch "Welcome to making webpages interactive" or Present Slides version

	Ask them: • What their favorite interactive webpage is, or favorite webpage interaction is • Where did they learn JS from?
12:45	Start self-paced learning: Tell them to briefly do the quizzes, but spend no more than 20 minutes on them, before starting on “JS in the DOM”
2:25	Present What is pair programming? (Give shortened version if most have already paired before)
2:30	Demo: Use the JavaScript console in dev tools, FF and Chrome. Show that you can write code like document.getElementById, and you can inspect elements to find out their attributes/tag names.
2:35	Pair Project: (paste into doc) If you’ve done DOM modification: Extreme Makeover, Webpage Edition Else If you’ve done DOM access: DOM Detective
3:00	Project show & tell (if there are any)
3:05	Re-start self-paced learning
5:00	Demo: Bookmarklet Pair Project: (paste into doc) If you’ve done DOM events, do Project Pet Painter If you’ve done DOM modification: Extreme Makeover, Webpage Edition If you’ve done DOM access: DOM Detective
6:10	Present “Thanks for coming!” Go home!

Pairing Based on Progress

As students move through the course, their progress will vary more - some of them may be 1-2 tutorials ahead of others. When pairing people on the projects, the goal is to give them a project to work on that's roughly at their level, but when possible, pair more advanced with less advanced.

The way to do that is to look at the coach reports on Khan Academy and select the Skill Progress tab. That will show you graphs of how many students have started and completed each node in the course, and is a great way to figure out pairs. Make the list of pairs right before connecting your laptop to the monitor, to avoid showing that data to the whole class.

It's okay if pairs aren't perfectly matched, students can always learn from each other.