

CT4009

# Testing & Industry Advice

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# Today's session

This is the **last lecture** of the year, so the main focus will be advice. We'll also recap on testing.

There will be an assignment workshop on 29th April, all day.

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# An opportunity to ask questions

I've worked (and continue to work) in the design and web industries for 10 years, so use today as an opportunity to ask questions.

I'll leave time at the end.

Questions can be anything as simple as “how do you get your first job?” to “which JavaScript framework should I learn?”

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# Testing - Recap

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# What is testing?

- We're checking our code does what it's supposed to do
- Can be automated with more code
- Can also be done manually

# Types of testing

- Unit Testing
- Integration Testing
- Functional Testing
- System Testing
- Stress Testing
- Performance Testing
- Usability Testing
- Acceptance Testing
- Regression Testing
- Beta Testing

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# Functional testing

For this assignment, functional testing should be the most appropriate, just like the last assignment.

# Cypress

- Cypress is a complete testing tool that allows us to write functional and integration tests.
- It runs in a browser and uses Node JS
- It gives you a very realistic test
- It's great for testing key functionality like signup forms
- It's quickly becoming industry standard

<https://www.cypress.io>



# Cypress demo

I'll show you the same demo we tackled last semester.

Source code: <https://github.com/andybelldesign/CT4009-javascript-functional-testing-and-form-validation-cypress-demo>

# Industry advice

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# My experience



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# Continue to learn, always

- Learning the web doesn't end when this module ends. All we've done so far is introduce you to concepts. It's up to you to keep learning
- The web is an immature industry, so it moves at *lightning* pace
- This means you have to continue to learn a lot to keep up with it

# Focus on core skills

- The web moves at a lightning pace, but the core languages don't
- Instead of focussing on the latest, most popular frameworks, focus on core languages (HTML, CSS, JavaScript, PHP)
- You'll find it easier to switch between frameworks with good core skills

# Writing is a key skill

So much of what we do day-to-day is written. An example for me as a freelancer:

- Lots of email / Slack / Trello / GitHub communication
- Blog posts
- Documentation
- Specifications / Summary of work (SOW)

Being clear and concise saves heaps of time and effort.

# Blog

- Nearly all of my opportunities later in my career have been attributed to the writing work I do
- It's a very good way for you to demonstrate your knowledge
- It's a very good way for others to see your progression
- It helps you to retain knowledge
- Teaching helps you learn

# Ethics

- Check your privilege
- Always consider what the worst thing that can be done is, because it usually will be done
- Consider how what you work on can be abused
- Consider how what you work on can be used to exploit others



# Most importantly: enjoy it

- Working on the web is great!
- Knowing that your work has a potential audience of billions is cool
- You can make a genuine impact on the world
- The more you enjoy it, the better the work you do will be

# Where you can find me on the web

**Twitter:** <https://twitter.com/andybelldesign>

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# Questions

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