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| **Course: Freelance Web Development** |  | **Mentor: David Awad** |
| **Week 5: Responsive Pages** | **DATE: Saturday, April 15th** |

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| **Objectives (Instructor-Facing)** |
| Brainstorm:   * min-with, max-width, * media-queries (min-width, max-width, orientation: landscape/ portrait) , * rem and em, vw vh, vmin vmax and %   From Codecademy ===================   * **Learning Standard**: State the differences between [em](https://www.codecademy.com/courses/freelance-u5/lessons/sizing-elements/exercises/em) and [rem](https://www.codecademy.com/courses/freelance-u5/lessons/sizing-elements/exercises/rem) * **Learning Standard**: [State how height and width are calculated using percentage measurements](https://www.codecademy.com/courses/freelance-u5/lessons/sizing-elements/exercises/percentages-height-width) * **Learning Standard**: [State how margin and padding are calculated using percentage measurements](https://www.codecademy.com/courses/freelance-u5/lessons/sizing-elements/exercises/percentages-padding-margin) * **Learning Standard**: [Scale images and videos using percentage measurements](https://www.codecademy.com/courses/freelance-u5/lessons/sizing-elements/exercises/scaling-img-video) |

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| **List of linked resources:** |
| * [CSS Relative Units](https://www.w3schools.com/CSSref/css_units.asp) * [Media Queries](https://www.w3schools.com/css/css_rwd_mediaqueries.asp) |

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| **Lesson Plan Agenda in Brief** | | |
| 1. Introduction and overview 2. A relative box. 3. Hide the NAV bar with media queries | | |

**AGENDA:**

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| **PROCEDURE** | | |
| Intro:  (5 minutes) | Welcome, stall for more users, ask about interest and challenge.   * Explain intention of today: to see a number of units and methods in practice at the tinkering level, to get a sense of the fundamentals of these properties and design flow. * Encourage users once again to work with git/github and on their local machine as much as possible. * Note to students that today will not really cover cross-browser compatibility, with apologies to IE 6. | |
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| Responsive Design Overview: box in a box  (25 minutes) | * A note on the intention and principles of responsive design.   + Coherent experience   + Don’t code like it’s 1997   + A qualification to IE. * Init a new repository, got to github and add the remote. * The box Experiment with different relative measurements to get a coherent experience. * Percent.   + Hard pixels…   + Start with 50, 50.   + Wrap it in another div., set that div’s width to a percentage. See the scale.   + Progress to relative box that is roughly similar to the box decal in the powerpoint. | |
| Questions: | * Take questions from viewers. | |
| 20 minutes | * Create a responsive nav bar using @media queries | |
| Questions | * Take questions from viewers. | |

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