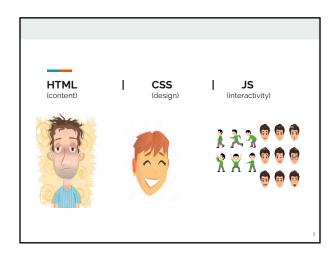
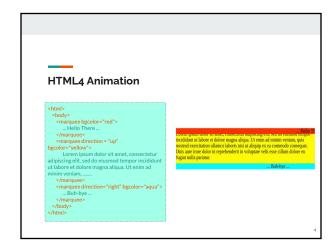
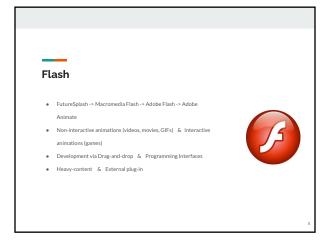
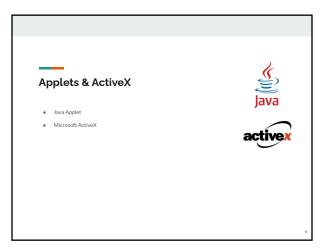
02 HTML5 & CSS3













- Less styling markup
- More semantic markup
- · Accessibility (use) and Design (device)
- More separation of concerns (HTML-CSS, HTML-JS, CSS-JS)
- Native support for media
- More Components & APIs (canvas, web storage, geolocation, etc.)

Markup, no longer HTML



- "If CSS can do it, then HTML doesn't need it".
 - o Styling related html markup elements (& attributes of certain elements) are depreciated
- Includes:-
 - $\circ \qquad \mathsf{Elements} \, (\mathsf{frameset/frame}, \, \mathsf{applet}, \mathsf{b/i/u}, \mathsf{center}, \mathsf{etc.}) \, \& \, \mathsf{Attributes} \, (\mathsf{bgcolor}, \mathsf{marginwidth}, \mathsf{etc.})$
- Following were retained:-
 - Necessary (h1-h6, table, iframe, etc.) & Conforming (lang on script, border on img, etc.)

Newer HTML markup



- "Semantic meaning to content".
 - No longer just <u>div/span</u> or <u>form/table</u>
- Includes :-
 - Layout (header, nav, section, article, footer, etc)
 - Quantitative (time, figure, progress, meter, etc)
 - And more...

Accessibility and Design

- 'a11y' (accessibility)
- "alt" attribute to images | "aria-*" attributes | tabindex | label "for" attr
- <header>,<main>,<nav> over <div>, | <button> for clickable <a>,<div>,
- Multimedia <u>input</u> & <u>output</u> support
- Target <u>device</u> & <u>platform</u> view & events



More separation of concerns

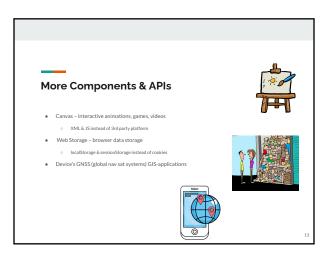


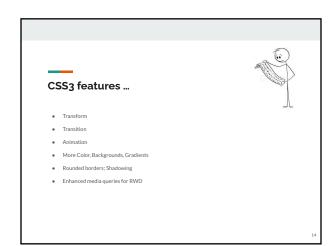
- Styling from HTML
- Animation from HTML
- More styling to CSS
- Non-interactive animation to CSS
- Assign/Deassign HTML & CSS via JS-DOM

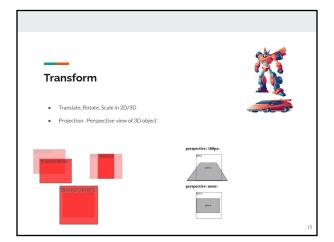
Native support for media

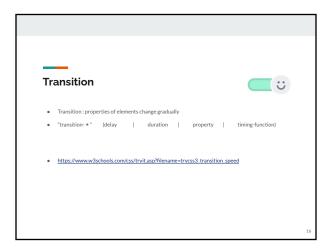
- SVG for vector images
- Sound/Music & Video/Movies
 - Native support for various common formats
- Youtube videos via iframe

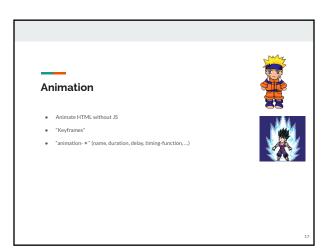


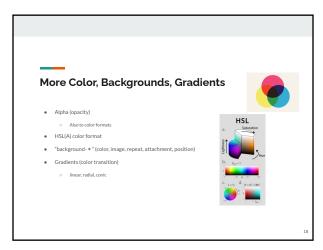


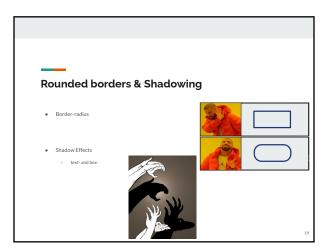












Enhanced media queries for RWD

- @media in CSS2, device dependent
- Media queries in CSS3 : feature/property dependent
 - o height, width
 - o orientation

