AMBIENT-IT

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Sign up

Liquid Layout CSS training

3 days (21 hours)

Presentation

Our Liquid Layout CSS course introduces you to a fluid layout approach in which the structure adapts to the container and screen size, without relying on frameworks.

By combining relative units, modern functions, CSS Grid, Flexbox and media/container queries, you can design responsive, accessible and high-performance interfaces.

This Liquid Layout CSS course gives you a clear method for designing, documenting and industrializing liquid layouts: from grid to fluid typography, from reusable component to design system.

You'll learn how to audit an existing layout, define CSS tokens, master accessibility and deliver production-quality screens.

At the end of the course, you'll be able to deliver elegant, scalable layouts that comply with W3C/MDN best practices.

Like all our training courses, this one is based on the latest W3C rules.

Objectives

- Design fluid layouts (Grid, Flexbox)
- Master relative units
- Industrialize via design tokens and CSS Custom Properties
- Guarantee accessibility and performance
- Migrate from a fixed screen to a liquid responsive screen

Target audience

- Front-end developers
- Web integrators
- UX/UI designers

Prerequisites

- HTML/CSS basics
- Flexbox and Grid notions

Liquid Layout CSS training program

[Day 1 - Morning]

Liquid design: principles and vocabulary

- Differences between fixed, fluid/liquid, responsive
- Relative units: %, em/rem, vw/vh, vmin/vmax
- Fluid typography with clamp()
- Golden rules of accessibility and legibility
- Classic limitations of fluid layouts
- Practical workshop: Transforming a fixed layout into a liquid skeleton.

[Day 1 - Afternoon]

Fluid grid with CSS Grid

- Implicit/explicit grids
- grid-template-areas for a semantic layout
- Managing gutters and breakpoints
- Responsive "product card" template
- Practical workshop: 12-column fluid grid without framework.

Flexbox for liquid components

- Flexbox vs Grid
- Alignment, wrap, gap and order
- Liquid components (cards, navbars, footers)
- Ratios with aspect-ratio
- Min/max-content: common pitfalls
- Practical workshop: Fluid header bar and adaptable menu.

[Day 2 - Morning]

Media Queries & Container Queries

- @media: mobile-first breakpoints
- Container Queries: adapting to the container
- Fluid typographic scales
- Architecture (ITCSS/BEM) for responsive
- Practical workshop: Responsive components via container queries.

[Day 2 - Afternoon]

Useful units, values and functions

- CSS Values & Units overview
- Min()/max()/clamp() functions
- Fluid spacing: adaptive scales
- Fluid media: max-width, object-fit
- Fluid grids without media queries
- Practical workshop: Fluid spacing system.

Fluid layout patterns

- Holy Grail, sticky sidebar, mosaics
- Progressive masonry (grid + auto-placement)
- Multi-column editorial layouts
- Density and min/max limits
- Elegant gradients
- Practical workshop: Creating a fluid editorial page.

[Day 3 - Morning]

Performance & accessibility of a fluid layout

- Core Web Vitals budget
- Responsive images: srcset, sizes
- Focus, reading order and tabindex
- Contrast and multi-screen legibility
- Zoom/enlargement tests

[Day 3 - Afternoon]

Design system & fluid tokens

- Design tokens (sizes, spacing, typography)
- CSS Custom Properties & CSS Layers
- Liquid components library
- Practical workshop: Starter tokens + components.

Industrialization & integration

- CSS organization (BEM, Layers, PostCSS)
- CI/CD: lint, visual tests, non-regression
- Migration strategies
- Audit and progressive refactoring
- Efficient transmission of UX models to developers
- Practical workshop: Liquid layout refactoring of a legacy page.

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new, advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives with regard to the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.