



**ACADEMY**  
OF DIGITAL ARTS  
EGYPT



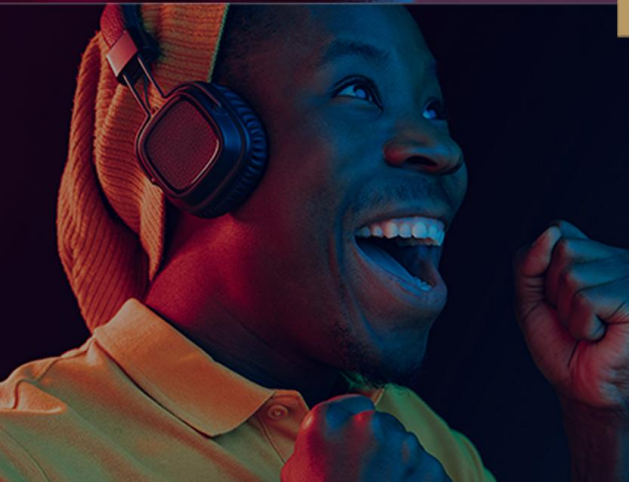
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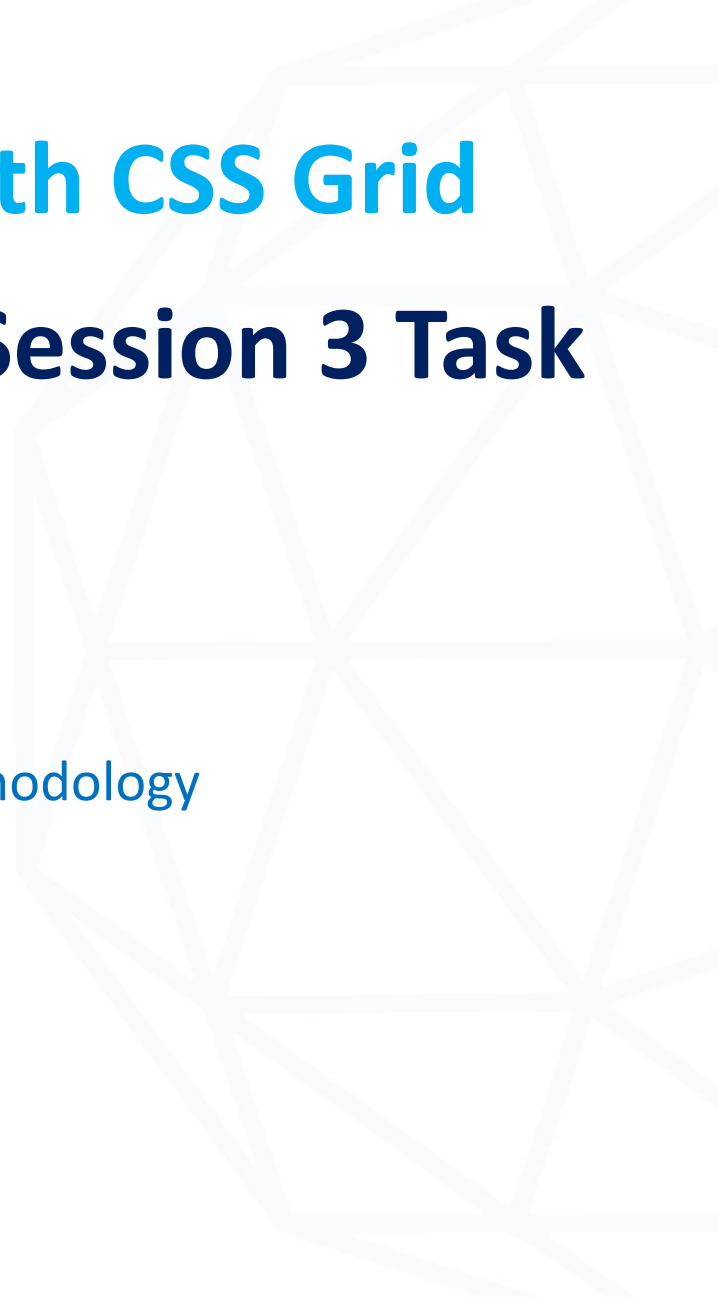


# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Objective:

By completing this task, you will:


- Master CSS Grid layout system for complex two-dimensional layouts
  - Implement comprehensive responsive design using mobile-first methodology
  - Create adaptive layouts that work seamlessly across all device sizes
  - Combine CSS Grid with Flexbox for optimal layout solutions
  - Build a professional blog website with modern layout techniques
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Step 1 – Create Grid-Based Page Structure

- Set up the main page layout using CSS Grid with semantic grid areas
  - Define grid template areas for header, navigation, main content, sidebar, and footer
  - Use grid-template-columns and grid-template-rows to create a responsive foundation
  - Implement proper grid container properties with appropriate gap spacing
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Step 2 – Build Responsive Article Grid

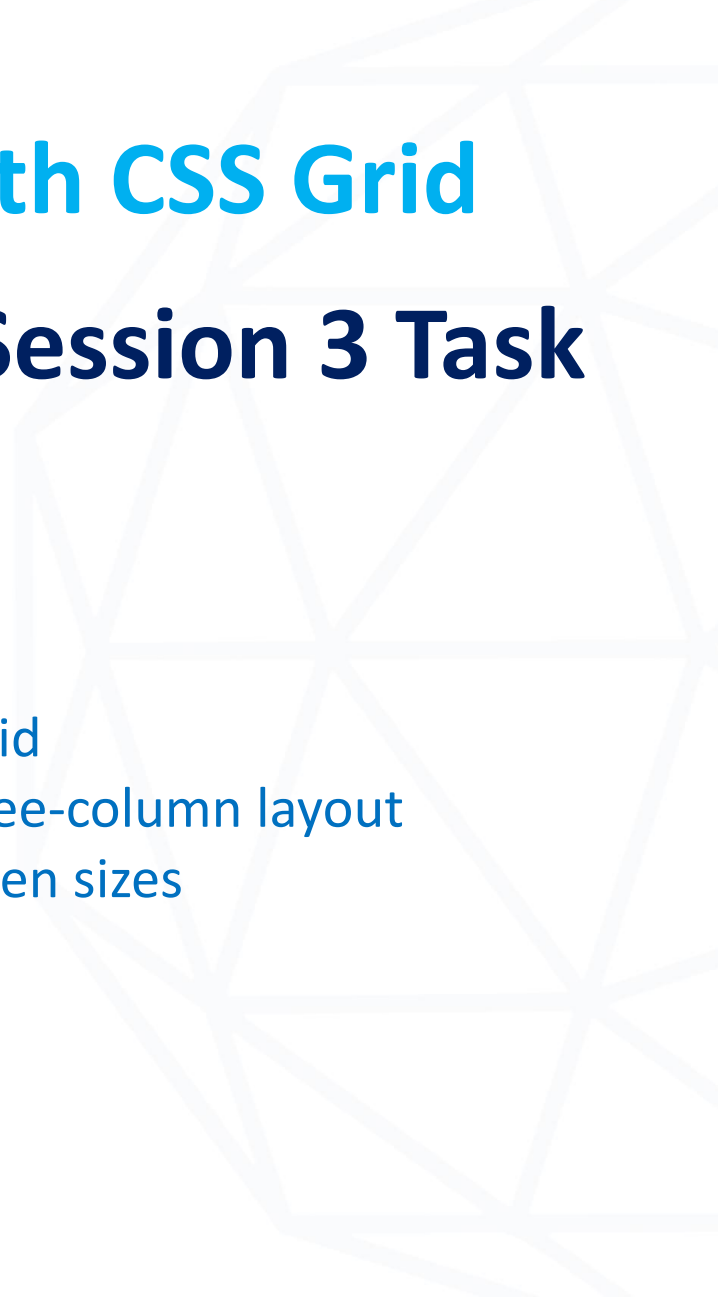
- Create a main content area that displays blog articles in a responsive grid layout
  - Use `repeat()`, `auto-fit`, and `minmax()` functions for automatic responsive behavior
  - Design article cards that maintain consistent height and professional appearance
  - Implement grid item placement for featured articles that span multiple columns or rows
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Step 3 – Implement Mobile-First Responsive Design

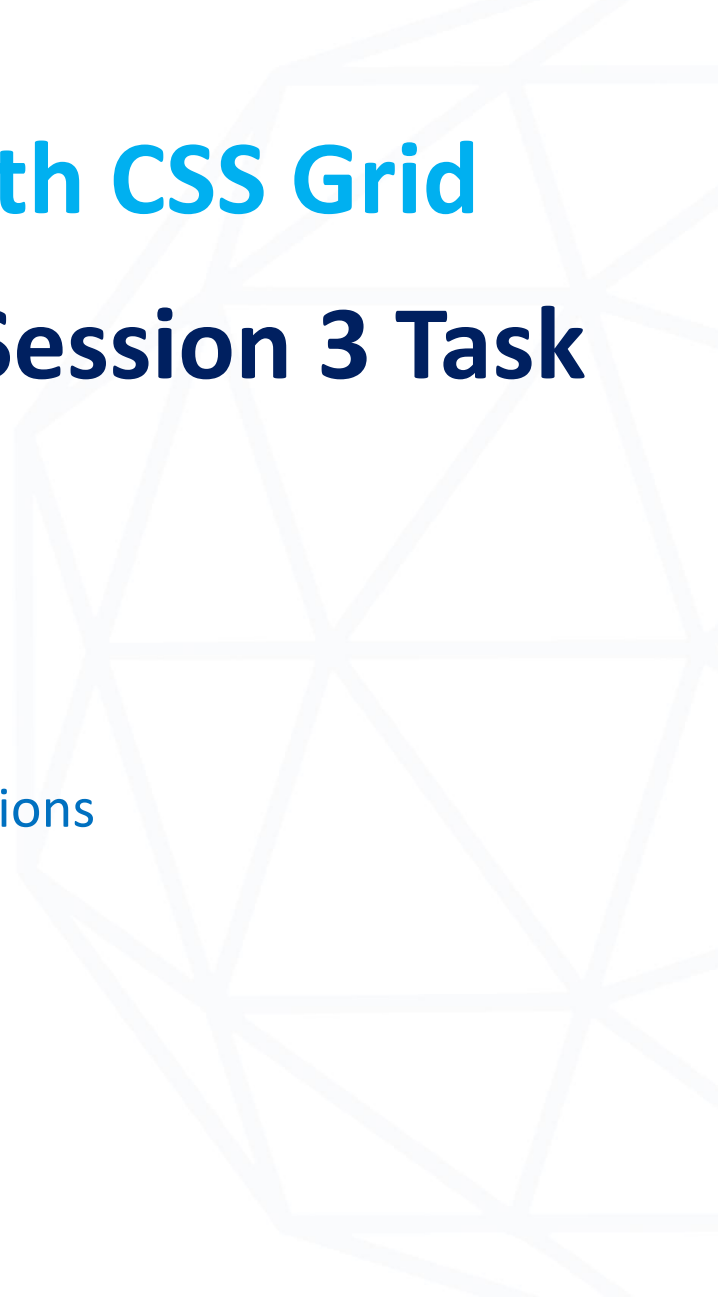
- Start with mobile layout (single column) as your base design
  - Add tablet breakpoint (min-width: 768px) with two-column article grid
  - Create desktop breakpoint (min-width: 1024px) with sidebar and three-column layout
  - Use media queries to reorganize grid template areas at different screen sizes
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Step 4 – Combine Grid with Flexbox for Components

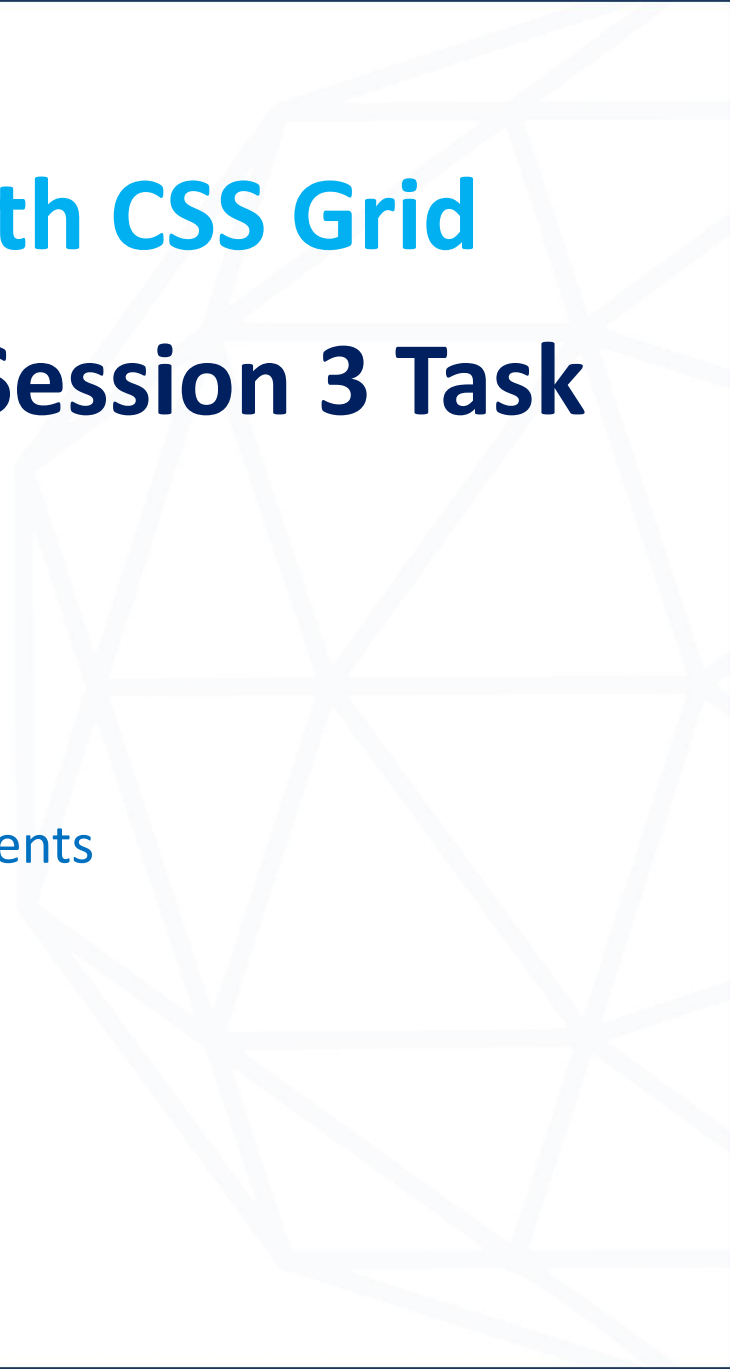
- Use Flexbox within grid items for internal component alignment
  - Create navigation bar using Flexbox that adapts responsively
  - Design article cards with Flexbox for header, content, and footer sections
  - Implement footer layout with Flexbox columns that stack on mobile
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Step 5 – Add Advanced Grid Features and Polish

- Create a featured article section that spans multiple grid cells
  - Add a photo gallery using CSS Grid with different sized images
  - Implement hover effects and smooth transitions for interactive elements
  - Test responsiveness across multiple screen sizes and refine spacing
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Requirements

CSS Grid Properties to Use:

- `display: grid` for main layout containers
  - `grid-template-columns`, `grid-template-rows` for grid structure
  - `grid-template-areas` for semantic layout definition
  - `grid-column`, `grid-row` for explicit item placement
  - `repeat()`, `auto-fit`, `minmax()` for responsive grid creation
  - `gap` property for consistent spacing
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Requirements

Responsive Design Implementation:

- Mobile-first approach starting with single-column layout
  - Minimum of 3 breakpoints: mobile (default), tablet (768px+), desktop (1024px+)
  - Grid layout reorganization at each breakpoint
  - Responsive typography scaling across screen sizes
  - Flexible images that scale with container sizes
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Requirements

Layout Sections Required:

- Header with site branding and navigation
  - Main content area with responsive article grid (minimum 6 articles)
  - Sidebar with widgets (visible on desktop only)
  - Featured article section spanning multiple grid columns
  - Footer with multiple information columns
  - Photo gallery showcasing grid layout capabilities
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# Build a Responsive Blog Layout with CSS Grid

## Academy of Digital Arts Egypt - CSS Session 3 Task

### Reminder

- Test your grid layout by resizing browser window to verify responsive behavior
- Use CSS Grid for page-level layout and Flexbox for component-level alignment
- Ensure your mobile design provides excellent user experience before enhancing for larger screens
- Validate that grid areas reorganize logically at different breakpoints
- Check that all content remains accessible and readable across all device sizes
- Use semantic HTML structure that complements your CSS Grid implementation

THANK YOU

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