

CS 1300: User Interfaces and User Experience Responsive Redesign (1300)

Occupational Outlook Handbook Redesign

The Occupational Outlook Handbook is a multi-page, government website that is a subset publication of the Bureau of Labor Statistics. It draws upon government data to provide users information regarding career options, growth, salary, benefits, and much more. The link to the website can be found here:

<https://www.bls.gov/ooh/>

Part 1: Usability Redesign

Occupational Outlook Handbook (Current Site)

Occupational Outlook Handbook Homepage

The OOH Homepage is split up into a three-column grid, with occupation groups taking the first column and other information being broken up into rows that span the 2 column-width. The layout itself is not very functional, with huge amounts of information staggered across the page, making it very hard to navigate. It's not very efficient to use, as users that want to use the handbook to find their potential career or search information are overwhelmed with non-pertinent information. Users may leave feeling unsatisfied, as the learnability of the site requires quite a steep learning curve in order to start using the site efficiently.

Occupational Outlook Handbook (Current Site)

Occupational Outlook Handbook Search

The screenshot shows a web browser window with the URL <https://data.bls.gov/search/query/results?cx=013738036195919377644%3A6ih0hfrgl50&q=graphic+design+inurl%3Abls.gov%2Fooh%2F>. The page title is "BLS Search Results". The main content area displays search results for "graphic design inurl:bls.gov/ooh/". The results include:

- Graphic Designers**: 4 days ago ... Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate ... <https://www.bls.gov/ooh/arts-and-design/graphic-designers.htm>
- Multimedia Artists and Animators**: Multimedia artists and animators create animation and visual effects for television , movies, video games, and other forms of media. <https://www.bls.gov/ooh/design/multimedia-artists-and-animators.htm>
- Web Developers**: 3 days ago ... Web developers design and create websites. They are responsible for the look of the site. They are also responsible for the site's technical ... <https://www.bls.gov/ooh/computer-and-technology/web-developers.htm>
- Art Directors**: Art directors are responsible for the visual style and images in magazines, ... They create the overall design of a project and direct others who develop artwork ... <https://www.bls.gov/ooh/arts-and-design/art-directors.htm>
- Arts and Design Occupations**: Employment of art and design occupations is projected to grow 5 percent from ... to meet the growing demand for animation and visual effects in video games, ... <https://www.bls.gov/ooh/arts-and-design/home.htm>
- Advertising, Promotions, and Marketing Managers**: Advertising, promotions, and marketing managers plan programs to generate interest in products or

The OOH Search function is powered by Google Search, and relies of the styling of Google's search results. Users that use this functionality are returned with long, inefficient hypertext links and styling that may confuse users, leading them to believe that they might have left the website all together.

Occupational Outlook Handbook (Current Site)

Occupational Outlook Handbook Employment Page

The screenshot shows a web browser window with the URL <https://www.bls.gov/ooh/arts-and-design/graphic-designers.htm>. The page is titled "Graphic Designers : Occupational Outlook Handbook". The header includes links for "A to Z Index", "FAQs", "About BLS", "Contact Us", "Subscribe to E-mail Updates", "Follow Us", "What's New", "Release Calendar", and "Blog". A search bar for "Search BLS.gov" is also present.

The main content area features a large heading "OCCUPATIONAL OUTLOOK HANDBOOK" and a sub-section "Graphic Designers". Below this, there are several tabs: "Summary" (which is selected), "What They Do", "Work Environment", "How to Become One", "Pay", "Job Outlook", "State & Area Data", "Similar Occupations", and "More Info".

Summary

Quick Facts: Graphic Designers	
2016 Median Pay ?	\$47,640 per year \$22.90 per hour
Typical Entry-Level Education ?	Bachelor's degree
Work Experience in a Related Occupation ?	None
On-the-job Training ?	None
Number of Jobs, 2016 ?	266,300
Job Outlook, 2016-26 ?	5% (As fast as average)
Employment Change, 2016-26 ?	12,500

What Graphic Designers Do

Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate consumers. They develop the overall layout and production design for various applications such as advertisements, brochures, magazines, and corporate reports.

Work Environment

Many of these workers are employed in specialized design services, publishing, or advertising, public relations, and related services industries. In 2016, about 1 in 5 graphic designers were self-employed.

How to Become a Graphic Designer

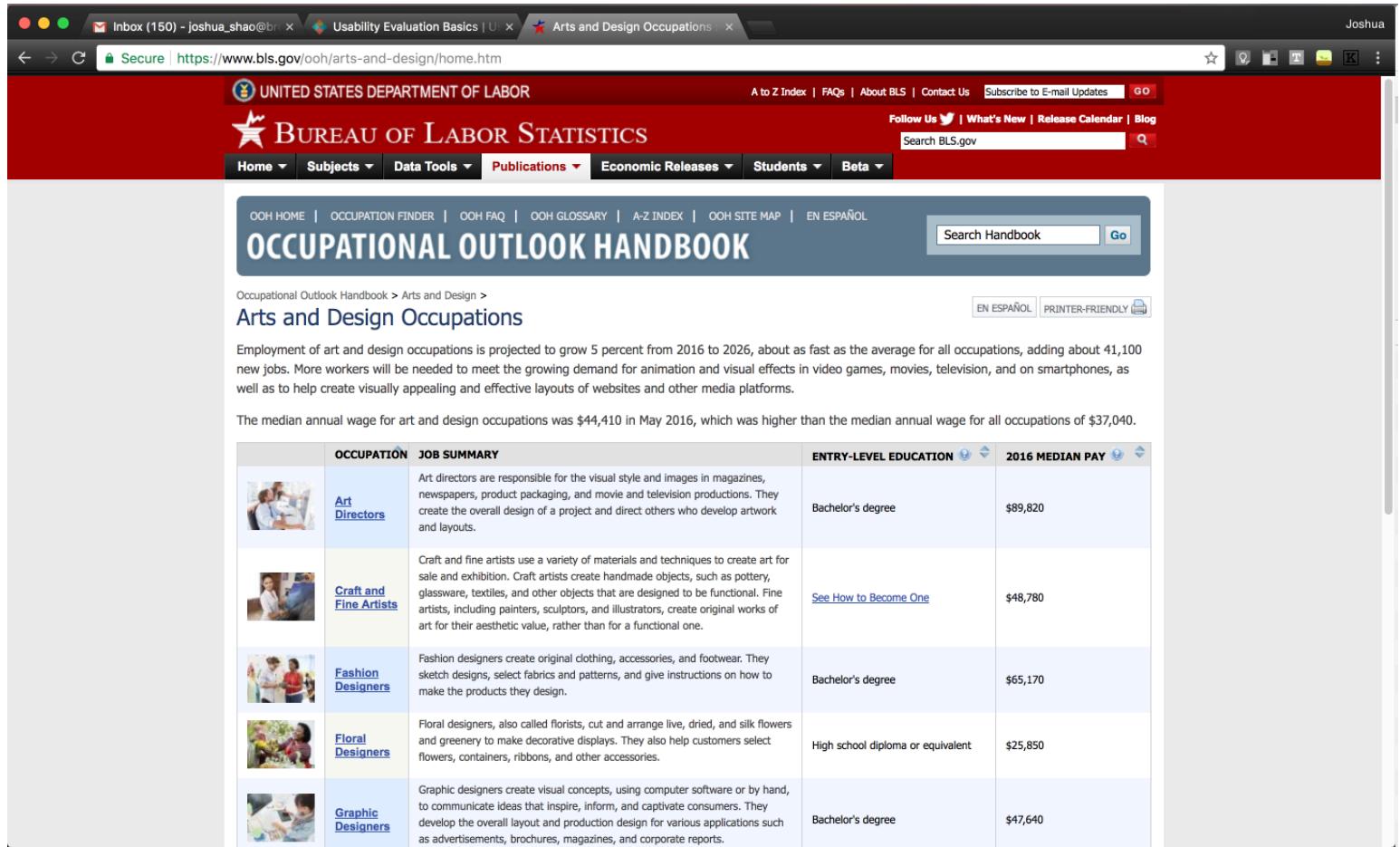
Graphic designers usually need a bachelor's degree in graphic design or a related field. Candidates for graphic design positions should demonstrate their creativity and originality through a professional portfolio that features their best designs.

Image: A woman sitting at a desk, working on a graphic design project using a tablet and stylus. She is surrounded by various design tools and materials, including a color palette, sticky notes, and a keyboard.

The OOH Employment page is a wealth of information, but can be quite overwhelming. For the most part, the page gives great information for users, but some of the information become repetitive, and could certainly be condensed for a more efficient viewing experience.

Occupational Outlook Handbook (Current Site)

Occupational Outlook Handbook Categorical Search



The screenshot shows a web browser window with the URL <https://www.bls.gov/ooh/arts-and-design/home.htm>. The page is titled "ARTS AND DESIGN OCCUPATIONS". It features a navigation bar with links like "Home", "Subjects", "Data Tools", "Publications", "Economic Releases", "Students", and "Beta". Below the navigation is a search bar with the placeholder "Search Handbook" and a "Go" button. The main content area is titled "OCCUPATIONAL OUTLOOK HANDBOOK" and displays information about arts and design occupations. It includes a sidebar with links to "OOH HOME", "OCCUPATION FINDER", "OOH FAQ", "OOH GLOSSARY", "A-Z INDEX", "OOH SITE MAP", and "EN ESPAÑOL". There is also a "Follow Us" section with links to social media and a "Search BLS.gov" search bar.

	OCCUPATION JOB SUMMARY	ENTRY-LEVEL EDUCATION	2016 MEDIAN PAY
	Art Directors Art directors are responsible for the visual style and images in magazines, newspapers, product packaging, and movie and television productions. They create the overall design of a project and direct others who develop artwork and layouts.	Bachelor's degree	\$89,820
	Craft and Fine Artists Craft and fine artists use a variety of materials and techniques to create art for sale and exhibition. Craft artists create handmade objects, such as pottery, glassware, textiles, and other objects that are designed to be functional. Fine artists, including painters, sculptors, and illustrators, create original works of art for their aesthetic value, rather than for a functional one.	See How to Become One	\$48,780
	Fashion Designers Fashion designers create original clothing, accessories, and footwear. They sketch designs, select fabrics and patterns, and give instructions on how to make the products they design.	Bachelor's degree	\$65,170
	Floral Designers Floral designers, also called florists, cut and arrange live, dried, and silk flowers and greenery to make decorative displays. They also help customers select flowers, containers, ribbons, and other accessories.	High school diploma or equivalent	\$25,850
	Graphic Designers Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate consumers. They develop the overall layout and production design for various applications such as advertisements, brochures, magazines, and corporate reports.	Bachelor's degree	\$47,640

The OOH Categorical Search page has quite an efficient layout. It's quite easy to navigate, with a single column grid design spaced out with alternating colors in order to afford ease of use. Something odd that struck me about this page was it's usage of imagery, that takes up a large amount of user attention, but not giving the user back much information at that size. The image in the first column of the page is incredibly small on screen, and is an element that this page could use without.

Occupational Outlook Handbook (Current Site)

Occupational Outlook Handbook FAQs

The screenshot shows a web browser window for the Bureau of Labor Statistics (BLS) website. The title bar reads "Frequently Asked Questions (FAQs)". The address bar shows a secure connection to <https://www.bls.gov/bls/faqs.htm>. The page header includes the BLS logo, the text "UNITED STATES DEPARTMENT OF LABOR", and "BUREAU OF LABOR STATISTICS". Navigation links include "Home", "Subjects", "Data Tools", "Publications", "Economic Releases", "Students", and "Beta". Top right features "A to Z Index", "FAQs", "About BLS", "Contact Us", "Subscribe to E-mail Updates", "Follow Us" (Twitter icon), "What's New", "Release Calendar", "Blog", and a search bar "Search BLS.gov". Below the header, a section titled "BLS Information" contains "Frequently Asked Questions (FAQs)" and a link "[Expand All]". A long list of questions follows, each hyperlinked to its respective answer page.

BLS Information

Frequently Asked Questions (FAQs)

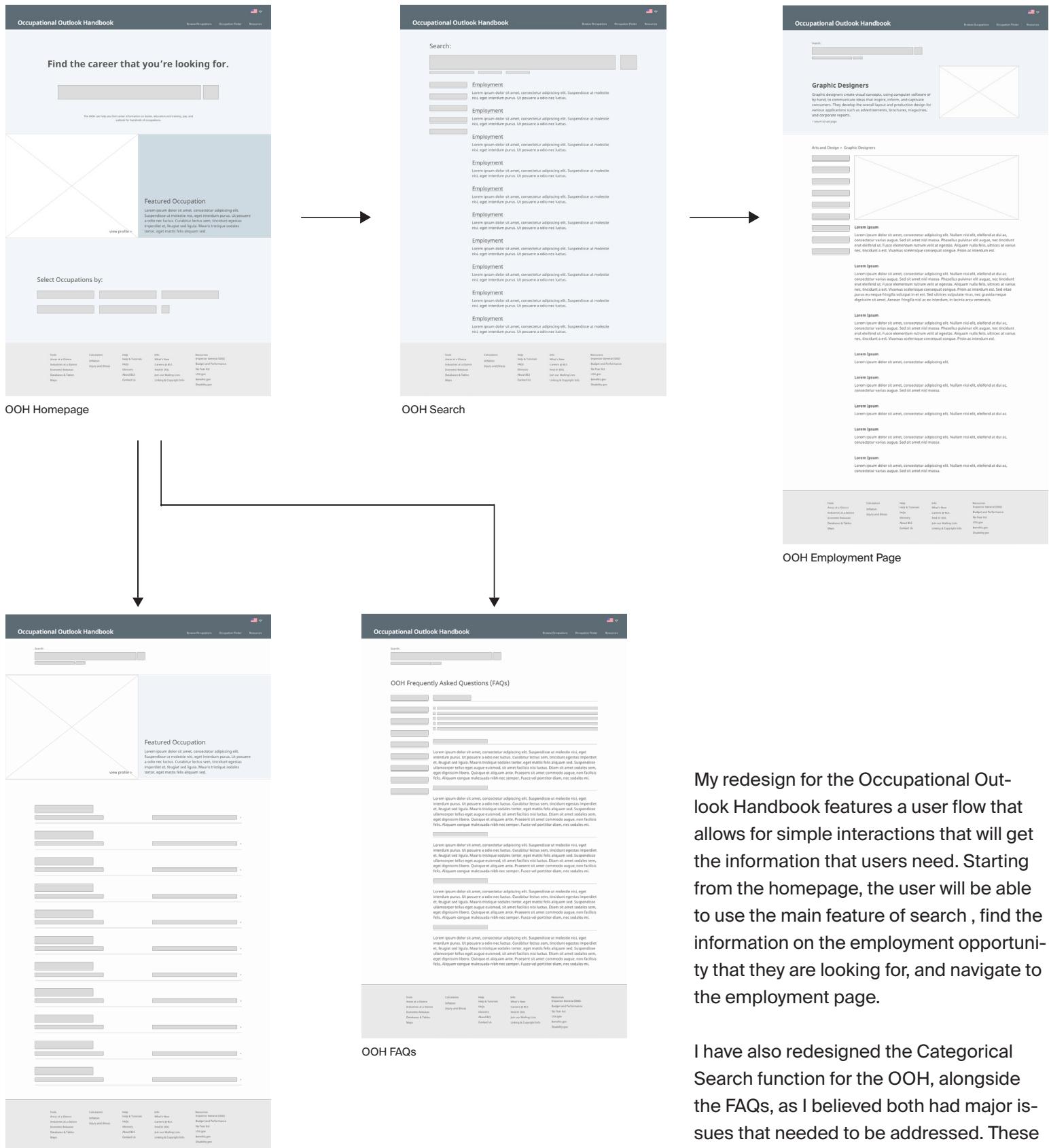
[[Expand All](#)]

1. [What is the Bureau of Labor Statistics \(BLS\)?](#)
2. [How do I read or interpret an index?](#)
3. [What is the Consumer Price Index \(CPI\)?](#)
4. [How is the Consumer Price Index \(CPI\) used?](#)
5. [Is the Consumer Price Index \(CPI\) a cost-of-living index?](#)
6. [What goods and services does the Consumer Price Index \(CPI\) cover?](#)
7. [Which index is the "Official Consumer Price Index \(CPI\)" reported in the media?](#)
8. [Can the Consumer Price Index \(CPI\) for individual areas be used to compare living costs among the areas?](#)
9. [Is the Consumer Price Index \(CPI\) the best measure of inflation?](#)
10. [How do I use the Consumer Price Index \(CPI\) for escalating contracts?](#)
11. [Do you have breakdowns of the Employer Costs for Employee Compensation \(ECEC\) by state?](#)
12. [Does the Quarterly Census of Employment and Wages \(OCEW\)/ES-202 program provide information on the number of employees in particular companies?](#)
13. [What is a benchmark of payroll survey estimates from the Current Employment Statistics \(CES\) survey?](#)
14. [What types of hours and earnings data are available from the Current Employment Statistics \(CES\) survey?](#)
15. [What are the causes of benchmark revisions of payroll survey estimates?](#)
16. [How do strikes affect Current Employment Statistics \(CES\) estimates?](#)
17. [Can I get a list of the companies in the samples of the Bureau of Labor Statistics \(BLS\) surveys?](#)
18. [What is the Producer Price Index \(PPI\)?](#)
19. [How are Producer Price Indexes \(PPI\) used?](#)
20. [How does the Producer Price Index \(PPI\) differ from the Consumer Price Index \(CPI\)?](#)
21. [How are labor hours calculated for productivity measures?](#)
22. [What are some uses of Export and Import Price Indexes?](#)
23. [Does the Bureau of Labor Statistics have employment projections for specific occupations?](#)
24. [How are "wages" defined by the Occupational Employment Statistics \(OES\) survey?](#)
25. [What types of benefit data are published by the Employee Benefits Survey \(EBS\)?](#)
26. [What are the fastest growing occupations?](#)
27. [How are the labor force components \(i.e., civilian noninstitutional population, civilian labor force, employed, unemployed, and unemployment rate\) defined?](#)

The OOH FAQ page is poorly designed, with all questions hyperlinked that expand out to cover a huge amount of screen space. It's very hard to navigate, and quite easy to lose track of your position on the site. Users could become frustrated by having to scroll back and forth, trying to decipher the information while trying to find where they left off.

Occupational Outlook Handbook (Redesign)

Wireframe Navigation:



My redesign for the Occupational Outlook Handbook features a user flow that allows for simple interactions that will get the information that users need. Starting from the homepage, the user will be able to use the main feature of search , find the information on the employment opportunity that they are looking for, and navigate to the employment page.

I have also redesigned the Categorical Search function for the OOH, alongside the FAQs, as I believed both had major issues that needed to be addressed. These pages can be found by navigating in the homepage of the redesign.

Occupational Outlook Handbook (Redesign)

Occupational Outlook Handbook Wireframe Homepage (Redesign)

My redesign for the OOH Homepage features a three-row, two-column layout, effectively streamlining the user's experience by making the information understandable through clear hierarchy, typography, and layout. The OOH is a fantastic resource, but it's strongest function, Search, wasn't being fully utilized by the website. With this layout I made sure the search had a full hero catered towards this.

The layout also highlights "Featured Occupation" and "Select Occupations By" which allow users to use other methods of finding the exact information that they need.

The wireframe shows a three-row, two-column layout. The top row has a dark header bar with the title 'Occupational Outlook Handbook' and a navigation bar with links for 'Browse Occupations', 'Occupation Finder', and 'Resources'. A small American flag icon is in the top right corner. The middle row features a large hero section with a search bar placeholder 'Find the career that you're looking for.' Below it is a descriptive text block: 'The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.' The bottom row contains two main sections: 'Featured Occupation' on the left and 'Select Occupations by:' on the right. The 'Featured Occupation' section includes a placeholder image with a 'view profile >' link, and a descriptive text block with placeholder text. The 'Select Occupations by:' section includes a placeholder image with a 'view profile >' link, and a descriptive text block with placeholder text. The footer row at the bottom contains five columns of links: Tools, Calculators, Help, Info, and Resources. Each column lists several specific links under its category.

Tools	Calculators	Help	Info	Resources
Areas at a Glance	Inflation	Help & Tutorials	What's New	Inspector General (OIG)
Industries at a Glance	Injury and Illness	FAQs	Careers @ BLS	Budget and Performance
Economic Releases	Glossary	About BLS	Find It! DOL	No Fear Act
Databases & Tables	Contact Us	Join our Mailing Lists	Linking & Copyright Info	USA.gov
Maps				Benefits.gov
				Disability.gov

Occupational Outlook Handbook (Redesign)

Occupational Outlook Handbook Search (Wireframe Redesign)

As mentioned before, the Search functionality of the old website was subpar, using Google's search styling, and overall just a confusing user experience.

Following a cleaner layout and more organized look, my redesign allows users to navigate their search results with much more ease and efficiency.

On the left hand side of the search results more functionality was added, with tabs of recent, related, experience-level, and check boxes for part-time and full-time added to aid users in their search.

The wireframe illustrates a redesigned search interface for the Occupational Outlook Handbook. At the top, a dark header bar features the title "Occupational Outlook Handbook" in white, along with a small American flag icon and links for "Browse Occupations", "Occupation Finder", and "Resources". Below the header is a search bar labeled "Search:" with a placeholder field and three small gray buttons below it. The main content area displays ten search results, each consisting of a small gray icon followed by the word "Employment" and a brief description of text starting with "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse ut molestie nisi, eget interdum purus. Ut posuere a odio nec luctus." At the bottom of the page is a footer navigation bar with links categorized into Tools, Calculators, Help, Info, and Resources.

Tools	Calculators	Help	Info	Resources
Areas at a Glance	Inflation	Help & Tutorials	What's New	Inspector General (OIG)
Industries at a Glance	Injury and Illness	FAQs	Careers @ BLS	Budget and Performance
Economic Releases		Glossary	Find It! DOL	No Fear Act
Databases & Tables		About BLS	Join our Mailing Lists	USA.gov
Maps		Contact Us	Linking & Copyright Info	Benefits.gov
				Disability.gov

Occupational Outlook Handbook (Redesign)

Occupational Outlook Handbook Employment Page (Wireframe Redesign)

The Employment page was redesigned with fluidity of use in mind. The original OOH Employment Page displayed a wealth of information, but its clunky layout that overwhelmed users with information made it difficult to navigate and use.

This redesign features the site's search capabilities in the top left corner, allowing users to continue to search for other information on the site. It also features a more structured layout and allows for users to use the site without feeling overwhelmed.

The wireframe illustrates the layout of the Occupational Outlook Handbook Employment Page. At the top, there is a dark header bar with the title "Occupational Outlook Handbook" and a search bar. Below the header, a main content area displays a job profile for "Graphic Designers". This profile includes a large image placeholder, a job title, a brief description, and a "return to last page" link. The page then branches into several sections under "Arts and Design > Graphic Designers", each containing a placeholder for "Lorem Ipsum" text. At the bottom, a footer section contains links to various resources like Tools, Calculators, Help, Info, and Resources.

Occupational Outlook Handbook (Redesign)

Occupational Outlook Handbook Categorical Search (Wireframe Redesign):

The Categorical Search function parses different categories of employment in order to allow users to find an area of interest and continue to view possible careers they might be interested in. The original design featured small thumbnail images unintelligible by users, taking up attention from the user, but not using it efficiently.

The redesign continues to feature the search in the top left, but also uses the “Featured Occupation” hero used on the homepage. This feature was added to allow for users that wanted to browse their options to also sample some careers that might interest them.

The wireframe illustrates the layout of the Occupational Outlook Handbook's Categorical Search page. At the top, there is a dark header bar with the title "Occupational Outlook Handbook" and a search bar. To the right of the search bar are links for "Browse Occupations", "Occupation Finder", and "Resources". Below the header is a large "X" placeholder where thumbnail images would have been displayed. To the right of this is a "Featured Occupation" section with a placeholder text block. The main content area contains a grid of 12 categorical items, each represented by a grey rectangle with a right-pointing arrow. At the bottom is a footer navigation bar containing links for various services like Tools, Calculators, Help, Info, and Resources.

Category	Description
Tools	
Areas at Glance	
Industries at a Glance	
Economic Releases	
Databases & Tables	
Maps	
Calculators	
Inflation	
Injury and Illness	
Help	
Help & Tutorials	
FAQs	
Glossary	
About BLS	
Contact Us	
Info	
What's New	
Careers @ BLS	
Find It! DOL	
Join our Mailing Lists	
Linking & Copyright Info	
Resources	
Inspector General (OIG)	
Budget and Performance	
No Fear Act	
USA.gov	
Benefits.gov	
Disability.gov	

Occupational Outlook Handbook (Redesign)

Occupational Outlook Handbook FAQs (Wireframe Redesign):

The original FAQs page of the OOH was cluttered with text that made it incredibly difficult to navigate.

This redesign aims at sorting the information into categories into a sidebar, allowing for users to parse through topics relating to their interest / concern, making it much easier to navigate through the FAQs.

The wireframe shows a redesigned layout for the Occupational Outlook Handbook's Frequently Asked Questions (FAQs) section. At the top, there is a dark header bar with the title "Occupational Outlook Handbook" and a search bar. Below the header, the main content area is titled "OOH Frequently Asked Questions (FAQs)". On the left side, there is a sidebar containing several gray rectangular boxes, likely representing category filters or search results. The main content area contains four distinct sections, each with a gray header bar and a large amount of placeholder text ("Lorem ipsum dolor sit amet, consectetur adipiscing elit..."). At the bottom of the page, there is a footer navigation bar with links to various resources like Tools, Calculators, Help, Info, and Resources.

Tools	Calculators	Help	Info	Resources
Areas at a Glance	Inflation	Help & Tutorials	What's New	Inspector General (OIG)
Industries at a Glance	Injury and Illness	FAQs	Careers @ BLS	Budget and Performance
Economic Releases		Glossary	Find It! DOL	No Fear Act
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Maps		Contact Us	Linking & Copyright Info	Benefits.gov

Occupational Outlook Handbook

Usability Criteria Critique (Current Site vs. Redesign)

	Occupational Outlook Handbook Original Website	Occupational Outlook Handbook Redesigned Website
Intuitive Design	<p>The original design of this website was hard to navigate, with information being grouped arbitrarily, completely cluttering the screen.</p> <p>The designers intended to allow users to have all the information they needed at their fingertips, but due to poor hierarchy and typographic decisions, it became an indistinguishable cluster of type.</p>	<p>This redesign features a heavier use of white space, and spaces out its elements in a more user-friendly layout that shows a clearer hierarchy.</p> <p>The simplistic nature of this layout affords intuitive interactions from the user, allowing them to easily navigate between pages and explore its content.</p>
Ease of Learning	<p>The layout of the page takes a bit of time to pick up and use. It becomes confusing where users should navigate first, and what information is essential to the search process.</p>	<p>The layout of the redesign uses a two column grid spaced out for users to easily differentiate content from each other. It's very easy to pick up and use.</p>
Efficiency of Use	<p>The layout of the original design does not afford an efficient user experience. There are some interesting features worth noting, such as the "featured operations" hero, but inconsistency in the relative importance between information headers really taxes the user on efficiency.</p>	<p>The primary function of this webpage is to feature the OOH search capability. From there, users can browse some other features of the site to aid them in their search. Overall, the site is very streamlined and efficient.</p>
Memorability	<p>The design of this site doesn't lend itself to memorability. It's hard to navigate with a steep learning curve. I believe every visit will be just as taxing to the user as the last.</p>	<p>Due to its simple, clean, and organized structure, the website should have high memorability among users.</p>
Error Frequency and Severity	<p>The navigation of the original design is quite unhelpful, and can lead to user frustration as they cannot find the specific page they're looking for very quickly or easily.</p> <p>While users are certainly prone to error on this site, the severity is low. But this certainly can lead to users becoming too frustrated to use the site itself and abandon it all together.</p>	<p>User error frequency and severity should both decrease with this redesign, as it's much more easy to navigate across pages.</p> <p>The site's color coordination also helps with site consistency and uniformity, decreasing the severity of user errors.</p>
Subjective satisfaction	<p>The Occupational Outlook Handbook isn't very easy to navigate, and can leave potential users frustrated and anxious. The subjective satisfaction of users is quite low.</p>	<p>The redesign is much easier to navigate and understand content/ information. User subjective satisfaction should increase substantially.</p>

Part 2: Visual Redesign

Occupational Outlook Handbook Homepage (Redesign)

desktop

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

Featured Occupation
Physicists and Astronomers

Physicists and astronomers study the ways in which various forms of matter and energy interact. Theoretical physicists and astronomers may study the nature of time or the origin of the universe. Some physicists design and perform experiments with sophisticated equipment such as particle accelerators, electron microscopes, and lasers.

Select Occupations by:

- 2016 Median Pay
- Entry-Level Education
- On-the-job Training
- # of New Jobs (Projected)
- Growth Rate (Projected)

Tools

- Areas at a Glance
- Inflation
- Help & Tutorials
- FAQs
- Glossary
- About BLS
- Contact Us

Calculators

- Help
- Info
- What's New
- Careers @ BLS
- Budget and Performance
- No Fear Act
- USA.gov
- Benefits.gov
- Disability.gov

Resources

- Inspector General (OIG)
- Find It! DOL
- Join our Mailing Lists
- Linking & Copyright Info

tablet

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

Featured Occupation
Physicists and Astronomers

Physicists and astronomers study the ways in which various forms of matter and energy interact. Theoretical physicists and astronomers may study the nature of time or the origin of the universe. Some physicists design and perform experiments with sophisticated equipment such as particle accelerators, electron microscopes, and lasers.

Select Occupations by:

- 2016 Median Pay
- Entry-Level Education
- On-the-job Training
- # of New Jobs (Projected)
- Growth Rate (Projected)

mobile

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

Featured Occupation
Physicists and Astronomers

Physicists and astronomers study the ways in which various forms of matter and energy interact. Theoretical physicists and astronomers may study the nature of time or the origin of the universe. Some physicists design and perform experiments with sophisticated equipment such as particle accelerators, electron microscopes, and lasers.

Select Occupations by:

- 2016 Median Pay
- Entry-Level Position
- On-the-job Training
- Number of New Jobs
- Growth Rate (Projected)

Search

The Occupational Outlook Handbook is focused on helping users find career, education, training, and salary information for hundreds of different occupations. This redesign refocuses the website upon the OOH mission statement and streamlines the cluttered webpage into a navigable and efficient website. The redesign follows a two-column, three-row layout with heros featuring Search, Featured Occupation, and Select Occupation.

My redesign incorporates clear hierarchy, a clean layout, and good typographic practices that allow for an overall better user experience. The color palette now features a muted blue that alternates with each hero, organizing the reading experience for the user. The navigation through the site is linear, with emphasis to the fold of the screen, affording scrollability for the user. Lastly, I chose Google's Noto Sans for its broad language support, being that users may come from other non-English speaking backgrounds.

Occupational Outlook Handbook Homepage (Redesign)

desktop

The screenshot shows the redesigned homepage of the Occupational Outlook Handbook (OOH). At the top, there is a blue header bar with the OOH logo and navigation links for "Browse Occupations", "Occupation Finder", and "Resources". A language selector "(EN) 🇺🇸" is also present. Below the header, a large search bar with a magnifying glass icon is centered. A sub-headline "Find the career that you're looking for." is displayed above the search area. A descriptive text below the search bar states: "The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations." To the left of the main content area, there is a large image of a man in a dark coat looking through a large telescope or scientific instrument. Below this image is a "view profile >" link. The main content area has a blue background and features a section titled "Featured Occupation" with the heading "Physicists and Astronomers". It includes a brief description of their work: "Physicists and astronomers study the ways in which various forms of matter and energy interact. Theoretical physicists and astronomers may study the nature of time or the origin of the universe. Some physicists design and perform experiments with sophisticated equipment such as particle accelerators, electron microscopes, and lasers." Below this, there is a section titled "Select Occupations by:" with dropdown menus for filtering results by "2016 Median Pay", "Entry-Level Education", "On-the-job Training", "# of New Jobs (Projected)", and "Growth Rate (Projected)". At the bottom of the page, there is a footer navigation menu with links to various resources like Tools, Calculators, Help, Info, and Resources.

Occupational Outlook Handbook

(EN) 🇺🇸

Browse Occupations Occupation Finder Resources

Find the career that you're looking for.

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

 view profile >

Featured Occupation

Physicists and Astronomers

Physicists and astronomers study the ways in which various forms of matter and energy interact. Theoretical physicists and astronomers may study the nature of time or the origin of the universe. Some physicists design and perform experiments with sophisticated equipment such as particle accelerators, electron microscopes, and lasers.

Select Occupations by:

2016 Median Pay Entry-Level Education On-the-job Training

of New Jobs (Projected) Growth Rate (Projected)

Tools Calculators Help Info Resources

Areas at a Glance Inflation Help & Tutorials What's New Inspector General (OIG)
Industries at a Glance Injury and Illness FAQs Careers @ BLS Budget and Performance
Economic Releases Glossary About BLS Find It! DOL No Fear Act
Databases & Tables Contact Us Join our Mailing Lists USA.gov
Maps Linking & Copyright Info Disability.gov

Occupational Outlook Handbook Homepage (Redesign)

tablet

The screenshot shows the Occupational Outlook Handbook homepage designed for tablets. At the top, there's a blue header bar with the site's name and a language selection dropdown. Below the header, a large call-to-action button reads "Find the career that you're looking for." A search bar is positioned below this button. A descriptive text block explains that the OOH can help find career information on duties, education, and training, pay, and outlook for hundreds of occupations. To the left of this text is a photograph of a man looking through a telescope. Below the image is a "view profile" link. To the right of the image, the "Featured Occupation" section highlights "Physicists and Astronomers" with a detailed description of their work. Further down, the "Select Occupations by:" section contains dropdown menus for filtering by "2016 Median Pay", "Entry-Level Education", "On-the-job Training", "# of New Jobs (Projected)", and "Growth Rate (Projected)". At the bottom of the page is a footer navigation menu with links to various resources like Tools, Calculators, Help, Info, and Resources.

Tools	Calculators	Help	Info	Resources
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Maps		Contact Us	Linking & Copyright Info	Benefits.gov
				Disability.gov

Occupational Outlook Handbook Homepage (Redesign)

mobile

(EN) ▾

**Occupational
Outlook Handbook**

≡

**Find the career that
you're looking for.**

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

 view profile >

Featured Occupation

Physicists and Astronomers

Physicists and astronomers study the ways in which various forms of matter and energy interact. Theoretical physicists and astronomers may study the nature of time or the origin of the universe. Some physicists design and perform experiments with sophisticated equipment such as particle accelerators, electron microscopes, and lasers.

Select Occupations by:

2016 Median Pay ▾

Entry-Level Position ▾

On-the-job Training ▾

Number of New Jobs ▾

Growth Rate (Projected) ▾

Search

Part 3: Making It Responsive

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Desktop to Tablet Responsive Features

desktop

The desktop view of the Occupational Outlook Handbook website features a top navigation bar with links for 'Browse Occupations', 'Occupation Finder', and 'Resources'. Below this is a large hero section with a search bar and a magnifying glass icon. The text 'Find the career that you're looking for.' is displayed above the search bar. A sub-section titled 'Featured Occupation' highlights 'Physicists and Astronomers', featuring a photo of a man working with scientific equipment. Below the hero section is a 'Select Occupations by:' section with dropdown menus for '2016 Median Pay', 'Entry-Level Education', 'On-the-job Training', '# of New Jobs (Projected)', and 'Growth Rate (Projected)'. At the bottom is a footer with links for 'Tools', 'Calculators', 'Help', 'Info', and 'Resources'.

tablet

The tablet view of the Occupational Outlook Handbook website is similar to the desktop version but includes responsive design elements. A red box highlights the top navigation bar, which includes a language selector '(EN) 🇺🇸' and a menu icon. The 'Featured Occupation' section is also highlighted with a red box. The 'Select Occupations by:' section remains the same. The footer is identical to the desktop version.

1. At 1135 px, the nav bars will switch over to a burger icon, as the spacing at that width would interfere with legibility in type.

2. At 1135 px, the title text will scale down to 50px while retaining its color and bold attribute.

```
@media screen and (max-width: 1135px) { .menubar { display: none; } .burgermenu { margin: 20px; margin-right: 50px; display: flex; justify-content: flex-end; } }
```

```
@media screen and (max-width: 1135px) { .menubar { display: none; } #hero { font-size: 50px; font-weight: bold; color: #4A4A4A; } }
```

Occupational Outlook Handbook (Responsiveness)

Tablet to Mobile Responsive Features

1. At the 800px breakpoint, the Select Occupations button divs stack up on each other to adapt for a mobile viewport.

```
@media screen and (max-width: 800px)
{
    .footer {
        display: none;
    }

    .selectwrapper {
        display: grid;
        grid-template-columns: 1fr;
        grid-template-rows: 60px 60px
    }

    .select_occupation_by {
        grid-column-start: 1;
        grid-row-start: 1;
    }

    .medianpay {
        grid-column-start: 1;
        grid-row-start: 2;
    }

    .entryleveleducation {
        grid-column-start: 1;
        grid-row-start: 3;
    }

    .onthejobtraining {
        grid-column-start: 1;
        grid-row-start: 4;
    }

    .numberofnewjobs {
        grid-column-start: 1;
        grid-row-start: 5;
    }

    .growthrate {
        grid-column-start: 1;
        grid-row-start: 6;
    }

    .searchicon {
        grid-column-start: 1;
        grid-row-start: 7;
    }
}
```

2. At the 700px breakpoint, the featured occupation stack upon each other to conserve space while adapting for a smaller area

```
@media screen and (max-width: 700px)
{
    .wrapper {
        margin: 0.5px;
        display: grid;
        grid-template-rows: 500px
    }

    #title {
        font-size: 16pt;
    }

    .featured_occupation_left {
        grid-column: 1 / 3;
    }

    .featured_occupation_right {
        grid-column: 1 / 3;
    }

    .featuredoccupationdescription {
        width: 100%;
    }

    #bodytext {
        font-size: pt;
        color: #FFFFFF;
    }
}
```

3. At the 400px breakpoint, the bodytext, title text, searchbar, and featured occupation description text are all altered to fit into a mobile view. These css attributes allow for more legibility and mobile-friendly layout.

```
@media screen and (max-width: 400px)
{
    #bodytext {
        font-size: 10pt;
        color: #FFFFFF;
    }

    #hero {
        font-size: 20px;
        font-weight: bold;
        color: #4A4A4A;
    }

    .searchbar {
        display: none;
    }

    .smallsearchbar {
        display: block;
    }

    .featuredoccupationdescription {
        font-size: 10pt;
    }
}
```

