

Summary

Program LMI Endorsement	Endorsed: All LMI Criteria Met <input checked="" type="checkbox"/>	Endorsed: Some LMI Criteria Met <input type="checkbox"/>	Not LMI Endorsed <input type="checkbox"/>
Program LMI Endorsement Criteria			
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Supply Gap:	<i>Comments:</i> There is projected to be 55 annual job openings in the South Central Coast (SCC) Region for <i>Web and Digital Interface Designers (15-1255)</i> , which is more than the 1 award conferred by educational institutions.		
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Self-Sufficiency Standard Living Wage ¹ :	<i>Comments:</i> Typical entry-level wages for Web and Digital Interface Designers (15-1255) are \$31.15, which is above the Santa Barbara County living wage of \$29.80.		
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Education:	<i>Comments:</i> The typical entry-level education for Web and Digital Interface Designers (15-1255) is a bachelor's degree. However, 25% of workers in the field have completed some college or an associate degree as their highest level of education.		
Additional Considerations			
Emerging Occupation(s):	Yes <input type="checkbox"/>	Some <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	<i>Comments:</i> N/A		

The South Central Coast Center of Excellence for Labor Market Research (SCC COE) prepared this report to determine whether there is a supply gap in the SCC regional labor market related to one middle-skill occupation:

- Middle-Skill
 - Web and Digital Interface Designers (15-1255)
- Above Middle-Skill – denoted with an asterisk (*) throughout this report
 - *Graphic Designers (27-124)**

Based on the available data there appears to be a supply gap for *Web and Digital Interface Designers (15-1255)*, typical entry-level wages are above the Self-Sufficiency Standard living wage, and typical education requirements for this occupations aligns with a community college education. **Therefore, due to all the regional labor market criteria being met, the COE endorses this proposed program.**

¹ The living wage endorsement criteria in this report uses the University of Washington's Center for Women's Welfare Self-Sufficiency Standard, which the COE refers to as a living wage; the living wage for Los Angeles, San Luis Obispo, Santa Barbara, and Ventura counties, last updated in March 2024.

Exhibit 1 lists the occupational demand, supply, typical entry-level education, and educational attainment for the occupations included in this report.

Exhibit 1: Labor Market Endorsement Summary

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25 th Percentile)	Typical Entry-Level Education	Community College Educational Attainment
Web and Digital Interface Designers (15-1255)	55	1	Santa Barbara: \$31.15	Bachelor's degree	25%
Middle-Skill Subtotal	55	1	N/A	N/A	N/A
Graphic Designers (27-1024)*	128	142	Santa Barbara \$23.42	Bachelor's degree	26%
Above Middle-Skill Subtotal	128	142	N/A	N/A	N/A
Total	184	143	N/A	N/A	N/A

Demand:

- The number of jobs related to *Web and Digital Interface Designers (15-1255)*, the sole middle-skill occupation, is projected to decline 3% through 2029 in the SCC Region. There is projected to be 55 annual job openings due to retirements and replacements.
- Typical entry-level wages for *Web and Digital Interface Designers (15-1255)* in Santa Barbara County are \$31.15, which is above the Self-Sufficiency Standard living wage (\$29.80 for Santa Barbara County).
- There were 203 online job postings for these visual design occupations over the past 12 months. The highest number of postings were for graphic designers, graphic artists, and UI/UX designers.
- The typical entry-level education for *Web and Digital Interface Designers (15-1255)* is a bachelor's degree.
- Approximately, 25% of *Web and Digital Interface Designers (15-1255)* have completed some college or an associate degree as their highest level of education.

Supply:

- There was an average of 136 awards conferred by six community colleges in the SCC Region from 2021 to 2024. Of those, only 1 was specifically for *Web and Digital Interface Designers (15-1255)*.
- Non-community college institutions conferred 7 related awards from 2020 to 2023. These awards were all related to above middle-skill occupations.
- SCC community college students that exited Graphic Art and Design programs in the 2022-23 academic year had a median annual wage of \$30,000 (\$14.42 per hour).
- Throughout the SCC Region, 72% of Graphic Art and Design students that exited their program in 2021-22 reported that they are working in a job closely related to their field of study.

Demand

Occupational Projections:

Exhibit 2 compares historical and projected changes in employment for these occupations compared to the number of jobs in 2019. Notably, employment for these visual design occupations in Santa Barbara County grew 29% from 2019 to 2024, which is significantly higher when compared to employment for these occupations in California, the SCC Region, and all other counties in the SCC region. From 2024 to 2029, employment for these visual design occupations is projected to decline or remain flat in all areas.

Exhibit 2: Historical and Projected Employment for Visual Design Occupations in the SCC Region, 2019-2029

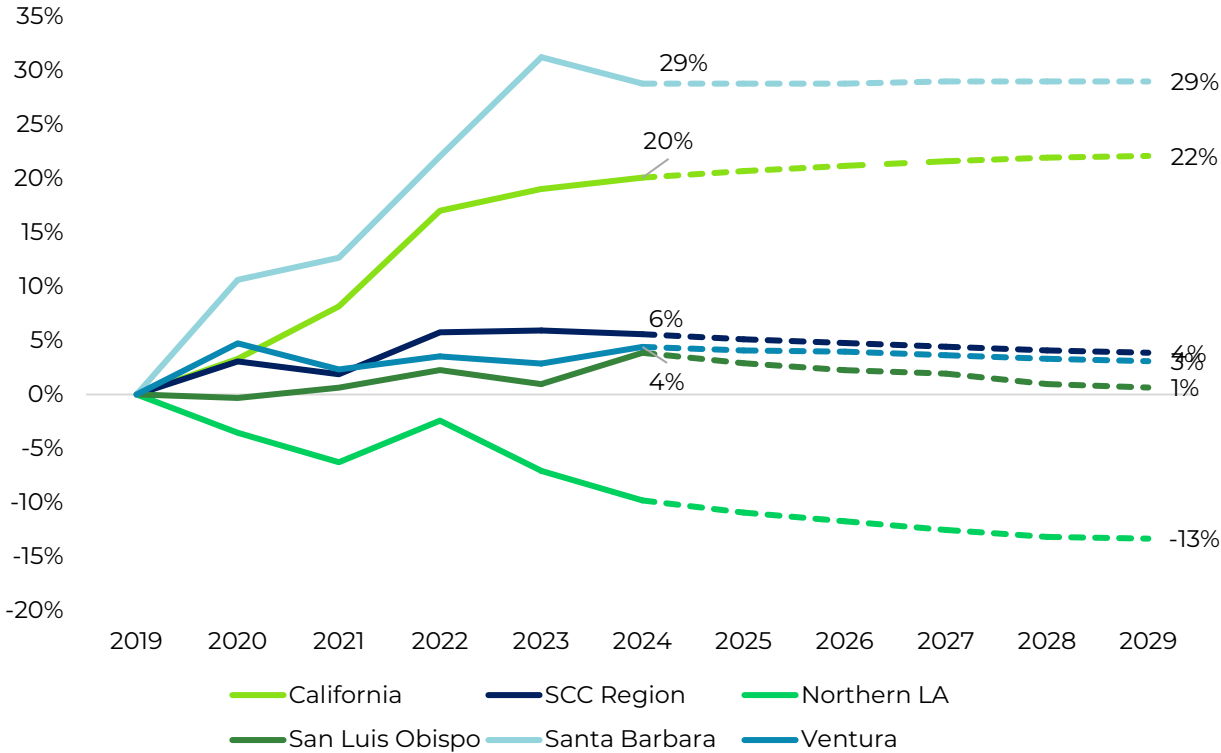


Exhibit 3 shows the five-year occupational demand projections for these visual design occupations. In the SCC Region, the number of jobs related to *Web and Digital Interface Designers (15-1255)* is projected to decrease 3% through 2029. Ventura County has the highest number of jobs and annual openings, but employment is projected to decline.

Exhibit 3: Occupational Demand in the SCC Region²

Skill-Level	Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Middle-Skill	Northern LA	163	159	(4)	(2%)	11
	San Luis Obispo	98	91	(6)	(6%)	6
	Santa Barbara	269	267	(1)	(0%)	18
	Ventura	297	285	(12)	(4%)	19

² Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Skill-Level	Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Middle-Skill Subtotal		826	803	(24)	(3%)	55
	Northern LA	398	380	(18)	(4%)	30
Above Middle-Skill	San Luis Obispo	225	222	(3)	(1%)	17
	Santa Barbara	362	365	3	1%	29
	Ventura	651	651	(0)	(0%)	50
Above Middle-Skill Subtotal		1633	1616	(17)	(1%)	128
SCC Region		2460	2419	(41)	(2%)	184

Wages:

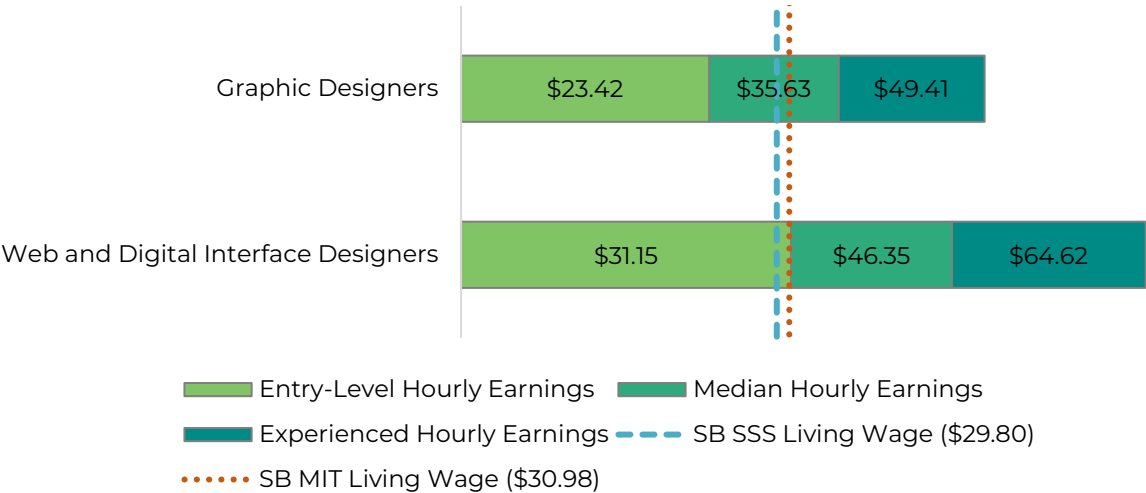
The labor market endorsement in this report considers the entry-level hourly wages for these visual design occupations in relation to the living wage of the county where the requesting community college is located. This report was requested by Allan Hancock College, which is in Santa Barbara County. Wages for other counties are included below to provide a complete analysis of the SCC Region.

In addition to the Self Sufficiency Standard living wage, data for the MIT Living Wage, updated on February 10, 2025, is provided as a reference. Currently, the MIT Living Wage in Santa Barbara County is \$30.98. Both figures account for geographic-specific costs of necessities such as housing, food, health care, and transportation to assess the cost of living, and are notated in the exhibits below.

Santa Barbara

Typical entry-level wages for *Web and Digital Interface Designers (15-1255)*, the sole middle-skill occupation analyzed in this report, are \$31.15, which is above the Self-Sufficiency Standard living wage for one adult (\$29.80 in Santa Barbara County). Typical entry-level hourly wages for both occupations range between \$23.42 and \$31.15. Median hourly wages are above the living wage for both occupations. Exhibit 4 shows the wage range for each of these visual design occupations in Santa Barbara County and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

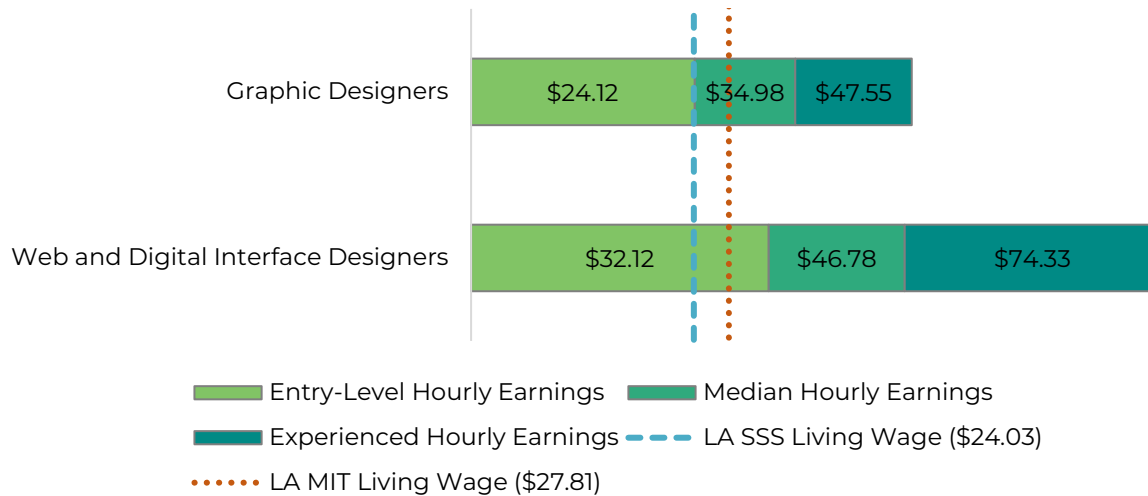
Exhibit 4: Wages by Occupation in Santa Barbara County



Northern Los Angeles

Typical entry-level wages for *Web and Digital Interface Designers (15-1255)*, the sole middle-skill occupation analyzed in this report, are \$32.12, which is above the Self-Sufficiency Standard living wage for one adult (\$24.03 in Los Angeles County). Typical entry-level hourly wages for both occupations range between \$24.12 and \$32.12. Exhibit 5 shows the wage range for each of these visual design occupations in Northern Los Angeles and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

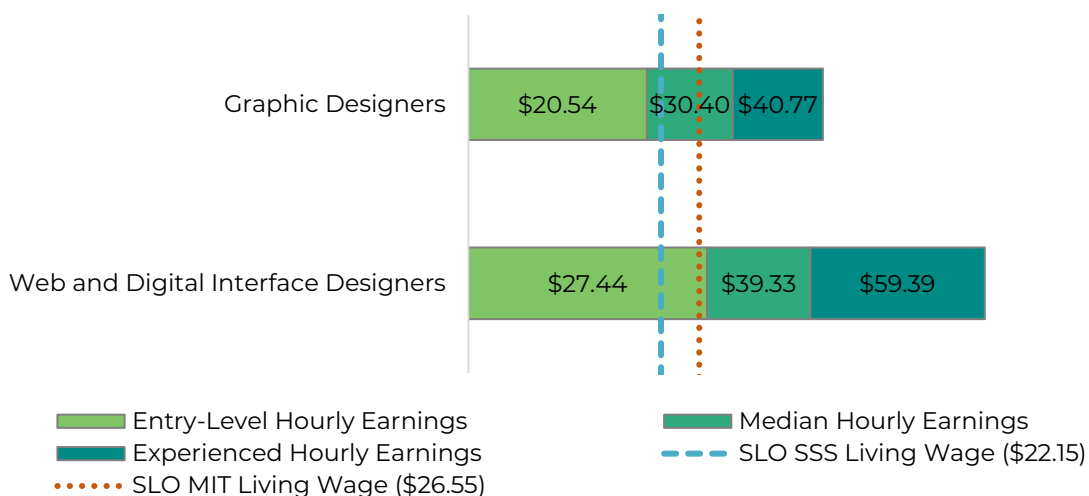
Exhibit 5: Wages by Occupation in Northern Los Angeles County



San Luis Obispo

Typical entry-level wages for *Web and Digital Interface Designers (15-1255)*, the sole middle-skill occupation analyzed in this report, are \$27.44, which is above the Self-Sufficiency Standard living wage for one adult (\$22.15 in San Luis Obispo County). Typical entry-level hourly wages for both occupations range between \$20.54 and \$27.44. Median hourly earnings for both occupations in San Luis Obispo County are above the living wage. Exhibit 6 shows the wage range for each of these visual design occupations in San Luis Obispo County and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

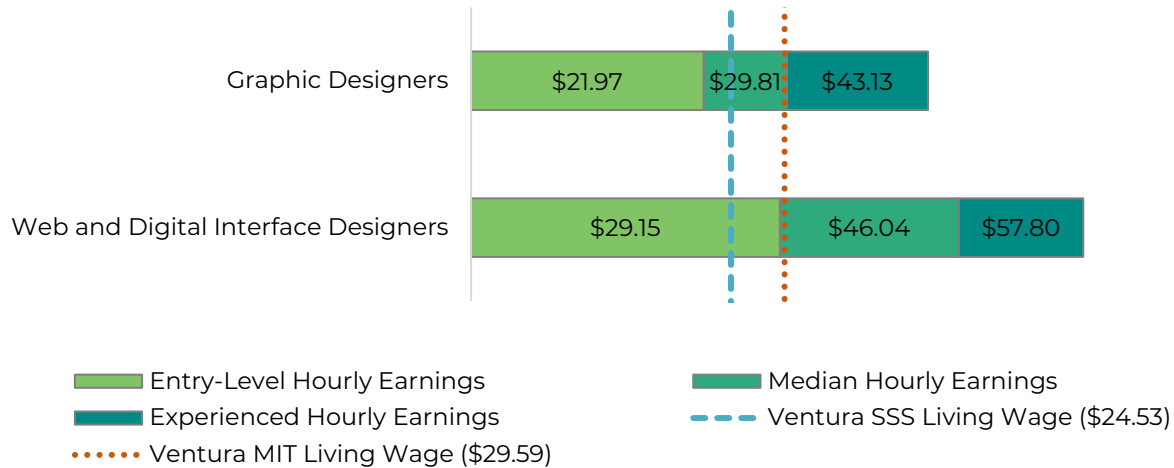
Exhibit 6: Wages by Occupation in San Luis Obispo County



Ventura

Typical entry-level wages for *Web and Digital Interface Designers (15-1255)*, the sole middle-skill occupation analyzed in this report, are \$29.15, which is above the Self-Sufficiency Standard living wage for one adult (\$24.53 in Ventura County). Typical entry-level hourly wages for both occupations range between \$21.97 and \$29.15. Median hourly earnings for both occupations in Ventura County are above the living wage. Exhibit 7 shows the wage range for each of these visual design occupations in Ventura County and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

Exhibit 7: Wages by Occupation in Ventura County



Job Postings:

There were 203 online job postings related to these visual design occupations listed in the past 12 months in the SCC Region. Exhibit 8 shows the number of job postings by county. Approximately 47% of job postings were in Ventura County.

Exhibit 8: Number of Job Postings by County (n=203)

County	Job Postings	Percentage of Job Postings
Ventura	96	47%
Santa Barbara	58	29%
Northern Los Angeles	27	13%
San Luis Obispo	22	11%
Total Postings	203	100%

Of the 203 postings, just over half (53%) were for *Graphic Designers (27-1024)* followed by *Web and Digital Interface Designers (15-1255)*, as shown in Exhibit 9.

Exhibit 9: Number of Job Postings by Occupation (n=203)

Occupation	Job Postings	Percentage of Job Postings
Graphic Designers	107	53%
Web and Digital Interface Designers	96	47%
Total Postings	203	100%

The top employers in the region, by number of job postings, are shown in Exhibit 10.

Exhibit 10: Top Employers by Number of Job Postings (n=203)

Employer	Job Postings	Percentage of Job Postings
Google	5	2%
Appfolio	5	2%
E-Solutions Group	5	2%
Ultimate Staffing	4	2%
Oxnard School District	4	2%
Skybound Entertainment	4	2%
Sonos	3	1%
PayPal	3	1%
Cottage Health	3	1%
California Polytechnic State University	3	1%

The top specialized, soft, and computer skills listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 11.

Exhibit 11: Top Skills by Number of Job Postings (n=203)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Graphic Design (82)	Communication (100)	Adobe Illustrator (67)
Adobe Illustrator (67)	Detail Oriented (51)	Adobe Creative Suite (58)
Marketing (66)	Innovation (34)	Adobe Photoshop (58)
Adobe Creative Suite (58)	Leadership (33)	Adobe InDesign (45)
Adobe Photoshop (58)	Presentations (33)	Figma (Design Software) (35)
User Experience (UX) (51)	Research (29)	HyperText Markup Language (HTML) (22)
Adobe InDesign (45)	Ability To Meet Deadlines (26)	Cascading Style Sheets (CSS) (21)
Figma (Design Software) (35)	Sales (25)	JavaScript (Programming Language) (17)
Workflow Management (32)	Problem Solving (23)	Microsoft PowerPoint (15)
Prototyping (28)	Customer Service (22)	Adobe After Effects (14)

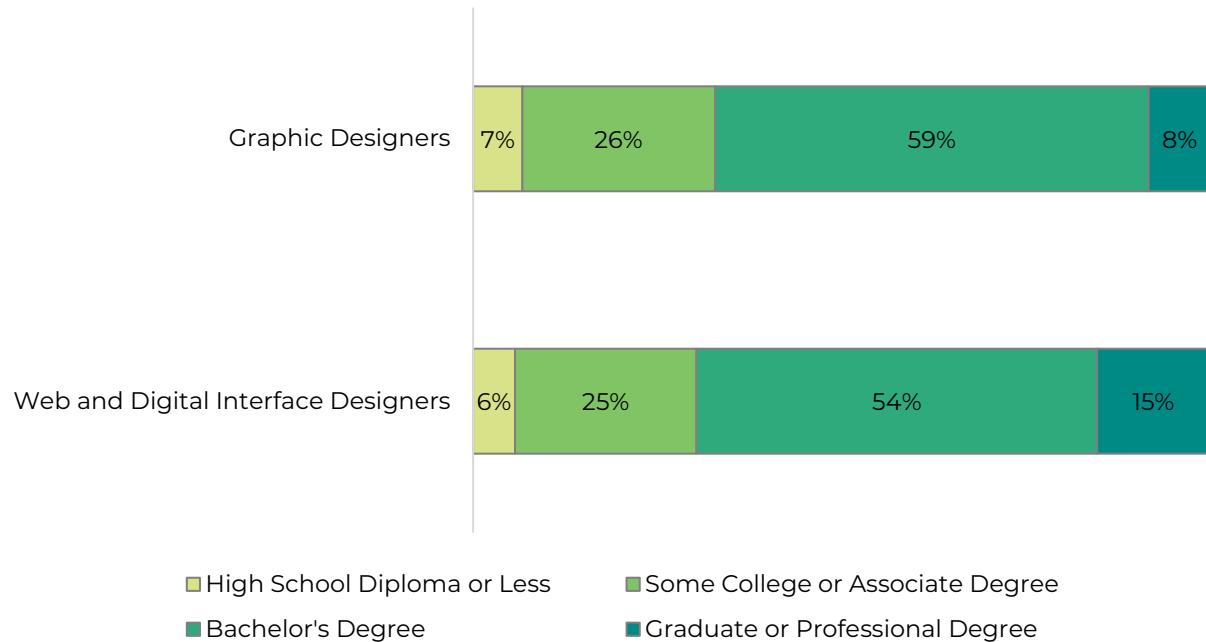
Educational Attainment:

The Bureau of Labor Statistics (BLS) lists the following as the typical entry-level education for these visual design occupations:

- Bachelor's Degree
 - *Graphic Designers (27-1024)*
 - *Web and Digital Interface Designers (15-1255)*

The national-level educational attainment data indicates between 25% and 26% of workers in the field have completed some college or an associate degree as their highest level of education. Exhibit 12 shows the educational attainment for each occupation, sorted by highest community college educational attainment to lowest.

Exhibit 12: National-level Educational Attainment for Occupations



Of the 43% of the cumulative job postings for these visual design occupations that listed a minimum education requirement in the SCC Region, 23% (20) requested a high school diploma or an associate degree, 74% (64) requested a bachelor's degree, and 3% (3) requested a graduate or professional degree.

Educational Supply

Community College Supply:

Exhibit 13 shows the three-year average number of awards conferred by community colleges in the related TOP codes:

- Digital Media (0614.00)
- Website Design and Development (0614.30)
- Computer Graphics and Digital Imagery (0614.60)
- Commercial Art (1013.00)
- Graphic Art and Design (1030.00)

No awards were conferred for the following TOP code:

- Applied Design (1009.00)

The college with the most completions in the region is College of the Canyons (49), followed by Antelope Valley (30), and Santa Barbara (16).

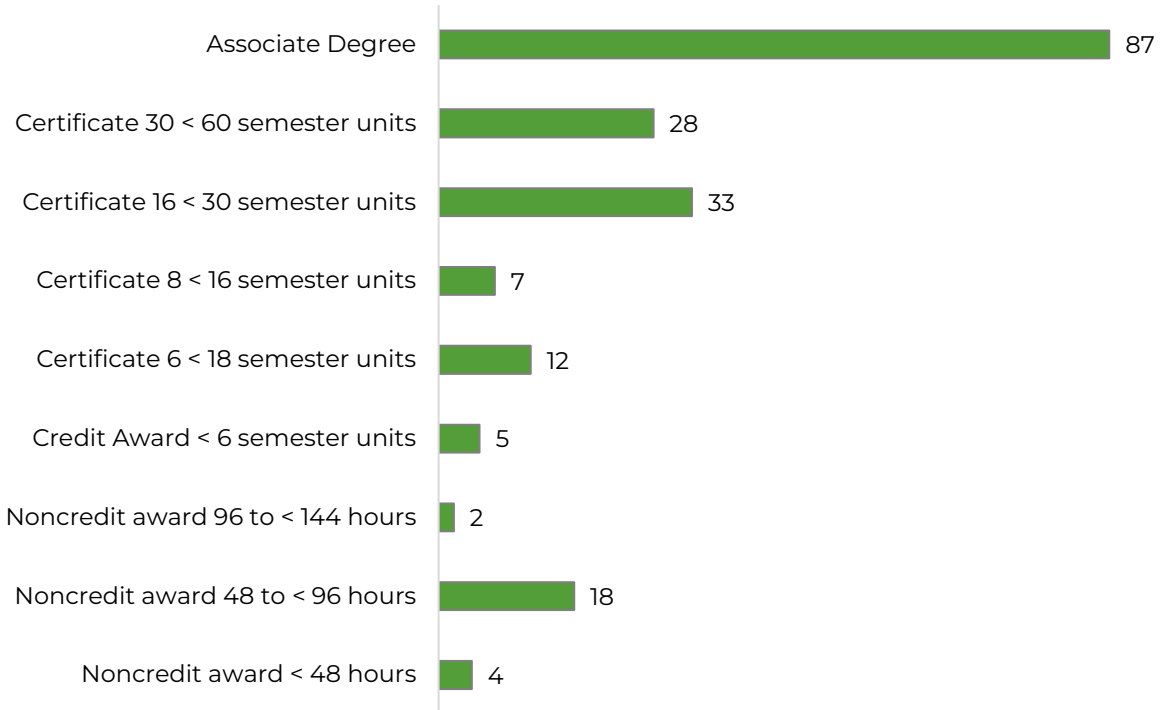
Exhibit 13: Regional Community College Awards (Certificates and Degrees), 2021-2024

TOP Code	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
0614.00	Digital Media	Canyons	5	10	6	7
		Moorpark	0	0	2	1
Supply Subtotal/Average			5	10	8	8
0614.30	Website Design and Development	Allan Hancock	0	2	5	2
		Canyons	14	7	13	11
		Cuesta	8	6	2	5
		Moorpark	1	1	1	1
Supply Subtotal/Average			23	16	21	20
0614.60	Computer Graphics and Digital Imagery	Antelope Valley	24	32	33	30
		Santa Barbara	11	1	0	4
Supply Subtotal/Average			35	33	33	34
1013.00	Commercial Art	Canyons	0	3	0	1
Supply Subtotal/Average			0	3	0	1
1030.00	Graphic Art and Design	Allan Hancock	10	6	11	9
		Canyons	35	17	38	30
		Cuesta	6	14	9	10
		Moorpark	17	9	11	12
		Santa Barbara	7	10	20	12
Supply Subtotal/Average			75	56	89	73
Supply Total/Average			139	118	152	136

Exhibit 14 shows the annual average community college awards by type from 2021-22 to 2023-24. The plurality of the awards are for associate degrees, followed by certificates between

16 and less than 30 semester units, and certificates between 30 and less than 60 semester units.

Exhibit 14: Annual Average Community College Awards by Type, 2021-2024



Community College Student Outcomes:

Exhibit 15 shows the Strong Workforce Program (SWP) metrics for Graphic Art and Design programs at Allan Hancock College (AHC), the SCC Region, and throughout California. Of the 1,505 Graphic Art and Design students throughout the SCC Region, 12% (182) attended AHC.

AHC students that exited Graphic Art and Design programs in the 2022-23 academic year had lower median annual earnings (\$22,116 or \$10.63 per hour) compared to all Graphic Art and Design students in the SCC Region (\$30,000 or \$14.42 per hour); both figures are lower in comparison to all Graphic Art and Design students statewide (\$31,512 or \$15.15 per hour). A significantly lower percentage of SCC (19%) Graphic Art and Design students attained the living wage when compared to all Graphic Art and Design students in the state (26%).

Exhibit 15: Graphic Art and Design (1030.00)
Strong Workforce Program Metrics, 2023-24³⁴

SWP Metric	AHC	SCC Region	California
SWP Students	182	1,505	14,028
SWP Students Who Earned 9 or More Career Education Units in the District in a Single Year	42%	30%	30%
SWP Students Who Completed a Noncredit CTE or Workforce Preparation Course	Data Unavailable	74%	71%
SWP Students Who Earned a Degree or Certificate or Attained Apprenticeship Journey Status	Data Unavailable	5%	6%
SWP Students Who Transferred to a Four-Year Postsecondary Institution (2022-23)	Data Unavailable	6%	7%
SWP Students with a Job Closely Related to Their Field of Study (2021-22)	Data Unavailable	72%	58%
Median Annual Earnings for SWP Exiting Students (2022-23)	\$22,116 (\$10.63)	\$30,000 (\$14.42)	\$31,512 (\$15.15)
Median Change in Earnings for SWP Exiting Students (2022-23)	Data Unavailable	37%	32%
SWP Exiting Students Who Attained the Living Wage (2022-23)	0%	19%	26%

³ All SWP metrics are for 2023-24 unless otherwise noted. Metrics data is sourced from DataVista.

⁴ Data that is not available in DataVista is denoted in Exhibit 15 as "data unavailable." Data may not be available for various reasons, including cases where data is masked to protect personally identifiable information.

Non-Community College Supply:

To comprehensively analyze the regional supply, it is crucial to include data from other institutions offering related retraining programs. Over the past three years (2020-2023), there were seven awards conferred by non-community college institutions under the related Classification of Instructional Programs (CIP) codes:

- Web Page, Digital/Multimedia and Information Resources Design (11.0801)
- Digital Communication and Media/Multimedia (09.0702)

No awards were conferred for the following CIP codes:

- Computer Graphics (11.0803)
- Digital Arts (50.0102)
- Design and Visual Communications, General (50.0401)
- Commercial and Advertising Art (50.0402)
- Graphic Design (50.0409)

Exhibit 16 shows the number of awards conferred by non-community college institutions.

Exhibit 16: Regional Non-Community College Awards, 2020-2023

CIP Code	Program	College	2020-2021 Awards	2021-2022 Awards	2022-2023 Awards	3-Year Award Average
11.0801	Web Page, Digital/Multimedia and Information Resources Design	Laurus College	5	7	3	5
Supply Subtotal/Average			5	7	3	5
09.0702	Digital Communication and Media/Multimedia	Ventura Adult and Continuing Education	0	3	3	2
Supply Subtotal/Average			0	3	3	2
Supply Total/Average			5	10	6	7

Regional Demographics

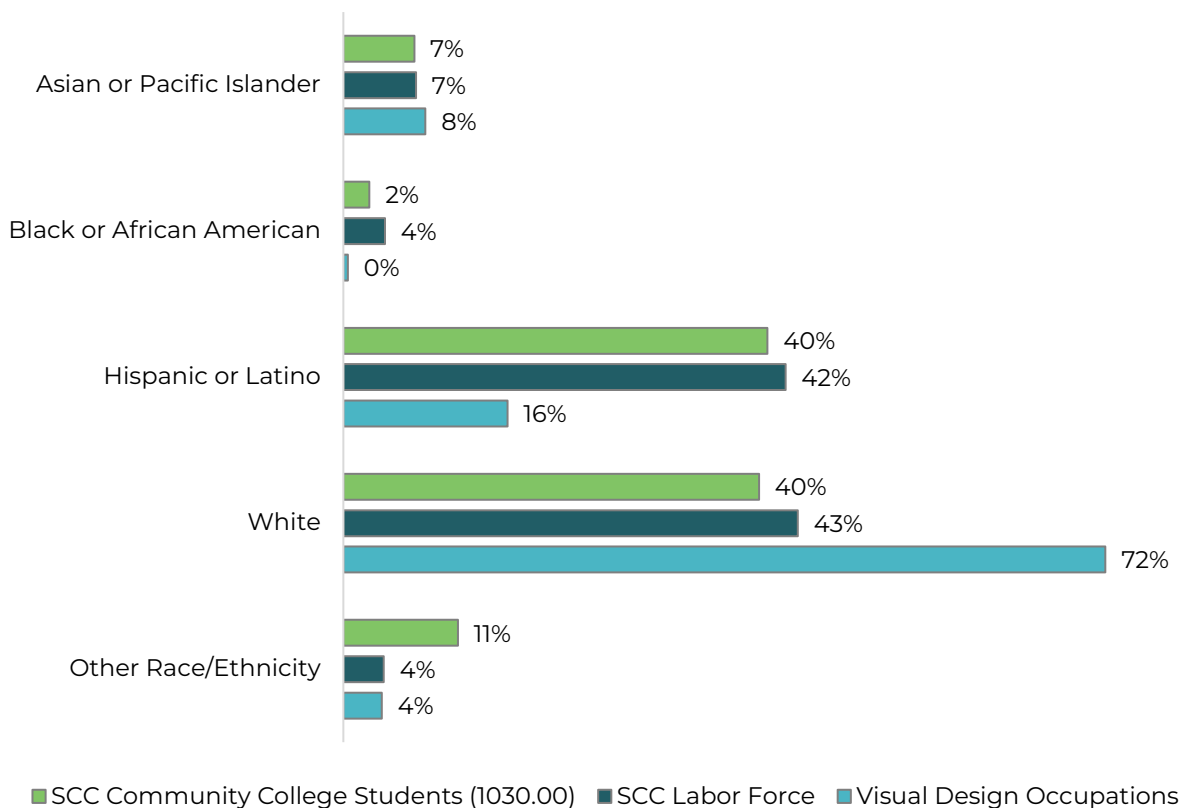
This section examines demographic data for SCC community college students in Graphic Art and Design programs compared to the SCC labor force, along with occupational data, to identify potential diversity and equity issues addressable by community college programs.

Ethnicity:

Exhibit 17 compares the ethnicity of SCC community college students enrolled in Graphic Art and Design programs, the overall SCC labor force, and occupation-specific data for the two visual design occupations included in this report.

Notably, 72% of workers employed in these visual design occupations are white, which is much higher than the labor force (43%) and community college Graphic Art and Design students (40%). Conversely, 40% of community college Graphic Art and Design students are Hispanic or Latino, which is slightly lower than the labor force (42%), but more than double compared to workers in these visual design occupations (16%).

Exhibit 17: Program and County Demographics by Ethnicity

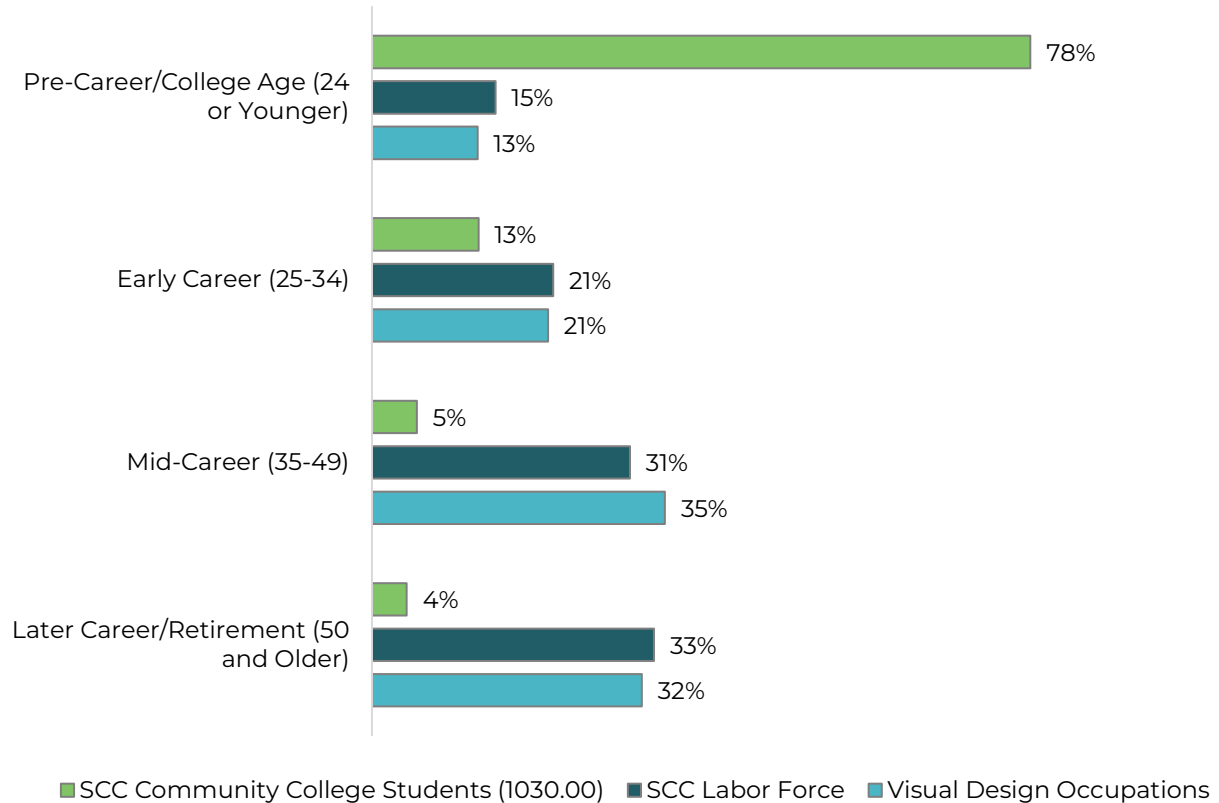


Age:

Exhibit 18 compares the age of SCC community college students enrolled in Graphic Art and Design programs, the overall SCC labor force, and occupation-specific data for the two visual design occupations included in this report.

The majority (67%) of workers in these visual design occupations are Mid-Career (35-49) and older, which is similar to the labor force (64%) but significantly higher than community college Graphic Art and Design students (9%). Conversely 78% of community college Graphic Art and Design students are age Pre-Career/College Age (24 or Younger), which is significantly higher than the labor force (15%) and workers in these visual design occupations (13%).

Exhibit 18: Program and County Demographics by Age

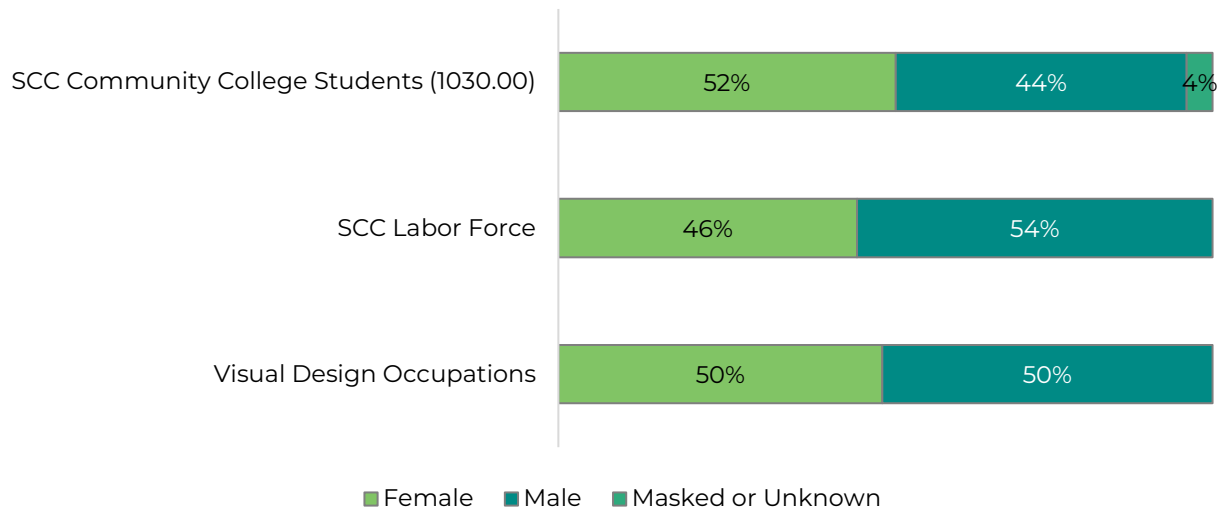


Sex:

Exhibit 19 compares the sex of SCC community college students enrolled in Graphic Art and Design programs, the overall SCC labor force, and occupation-specific data for these visual design occupations.

There is a slight majority of female students in these Graphic Art and Design programs (52%), which contrasts with the labor force (46% female).

Exhibit 19: Program and County Demographics by Sex



Appendix A: Methodology

Traditional Labor Market Data

The SCC COE prepared this report by analyzing data from occupations and education programs. Occupational data is derived from Lightcast, a labor market analytics firm that consolidates data from the California Employment Development Department (EDD), U.S. Bureau of Labor Statistics (BLS) and other government agencies.

Data included in this analysis represents the labor market demand for relevant positions most closely related to the proposed program as expressed by the requesting college in consultation with the SCC COE. Traditional labor market information was used to show current and projected employment based on data trends, as well as annual average awards granted by regional community colleges.

Program supply data is drawn from two systems: Taxonomy of Programs (TOP) and Classification of Instructional Programs (CIP).

Using a TOP-SOC crosswalk, the SCC COE identified middle-skill jobs for which programs within these TOP codes train. Middle-skill jobs include:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor's degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

The SCC COE determined labor market supply for an occupation or SOC code by analyzing the number of program completers or awards in a related TOP or CIP code. The COE developed a "supply table" with this information, which is the source of the program supply data for this report. TOP code data comes from the California Community Colleges Chancellor's Office MIS Data Mart (datamart.cccco.edu) and CIP code data comes from the Integrated Postsecondary Education Data System (nces.ed.gov/ipeds/use-the-data), also known as IPEDS.

TOP is a system of numerical codes used at the state level to collect and report information on California community college programs and courses throughout the state that have similar outcomes. CIP codes are a taxonomy of academic disciplines at institutions of higher education in the United States and Canada. Institutions outside of the California Community College system do not use TOP codes in their reporting systems.

Online Job Postings Data

Online job postings data, also known as real-time labor market information, captures job post advertisements for occupations relevant to the field of study which can signal demand and show what employers are looking for in potential employees but is not a perfect measure of the quantity of open positions. Online job postings data is sourced from Lightcast, a labor market analytics firm that scrapes, collects, and organizes data from online job boards such as LinkedIn, Indeed, Glassdoor, Monster, GovernmentJobs.com, and thousands more.

There are several limitations when analyzing job postings. A single job posting may not represent a single job opening, as employers may be creating a pool of candidates for future openings or hiring for multiple positions with a single posting. Additionally, not all jobs are posted online, and jobs may be filled through other methods such as internal promotion, word-of-mouth advertising, physical job boards, or a variety of other channels.

Additionally, Lightcast uses natural language processing (NLP) to determine the related company, industry, occupation, and other information for each job posting. However, NLP has limitations that include understanding contextual words of phrases; determining differences in words that can be used as nouns, verbs, and/or adjectives; and misspellings or grammatical errors.⁵ For these reasons, job postings could be assigned to the wrong employer, industry, or occupation within Lightcast’s database.

Geography

The South Central Coast region encompasses San Luis Obispo, Santa Barbara, and Ventura counties, as well as parts of Northern Los Angeles County. Exhibit 19 shows the 34 ZIP codes used to define Northern Los Angeles County.

Exhibit 20: Northern Los Angeles ZIP Codes

ZIP Code	Primary City	ZIP Code	Primary City
91310	Castaic	93532	Lake Hughes
91321	Newhall	93534	Lancaster
91322	Newhall	93535	Lancaster
91350	Santa Clarita	93536	Lancaster
91351	Canyon Country	93539	Lancaster
91354	Valencia	93543	Littlerock
91355	Valencia	93544	Llano
91380	Santa Clarita	93550	Palmdale
91381	Stevenson Ranch	93551	Palmdale
91382	Santa Clarita	93552	Palmdale
91383	Santa Clarita	93553	Pearblossom
91384	Castaic	93563	Valyermo
91385	Valencia	93584	Lancaster
91386	Canyon Country	93586	Lancaster
91387	Canyon Country	93590	Palmdale
91390	Santa Clarita	93591	Palmdale
93510	Acton	93599	Palmdale

Though traditional labor market information is available at the ZIP code level, it does not always add up to data reported at the county level for multiple reasons:

- ZIP codes are not official geographically bounded areas, unlike states and counties.
- ZIP codes may cross county lines, such as ZIP code 93461, which is primarily in San Luis Obispo County, but also crosses into Kern County.

For these reasons, the number of jobs and average annual openings for each county may not add up to the total for the SCC Region. However, considering jobseekers may cross county lines for opportunities, the traditional labor market data is reflective of opportunities available to jobseekers in the SCC Region.

Additionally, job postings data is available only at the city or county level. To analyze job postings for the entire SCC region, the SCC COE developed a list of cities available in Lightcast for analysis. Additionally, demographic data is not available at the ZIP code level but is available at the Census Bureau’s Public Use Microdata Area (PUMA) level. Demographic data was sourced via IPUMS and analyzed by the SCC COE.

⁵ K. R. Chowdhary, Fundamentals of Artificial Intelligence (Basingstoke: Springer Nature, 2020), <https://link.springer.com/book/10.1007/978-81-322-3972-7>.

Appendix B: Data Sources

Data Type	Source
Occupational Projections, Wages, and Job Postings	Traditional and real-time labor market information are captured using data from Lightcast , a labor market analytics firm.
Living Wage	Per the CCCCO, this report's endorsement criteria uses the University of Washington's Center for Women's Welfare Self-Sufficiency Standard last updated in March 2024. The MIT Living Wage , updated on February 10, 2025, is a nationally recognized living wage metric and is provided for reference.
Typical Education and Training Requirements, and Educational Attainment	The Bureau of Labor Statistics (BLS) uses a system to assign categories for entry-level education, work experience in a related occupation, and typical on-the-job training to each occupation for which BLS publishes projections data.
Emerging Occupation Descriptions, Additional Education Requirements, and Employer Preferences	The O*NET database includes information on skills, abilities, knowledges, work activities, and interests associated with occupations.
Educational Supply	The CCCCO Data Mart provides information about students, courses, student services, outcomes and faculty and staff. The National Center for Education Statistics (NCES) Integrated Postsecondary Integrated Data System (IPEDS) collects data on the number of postsecondary awards earned (completions).
Student Metrics and Demographics	Data Vista , a statewide data system supported by the California Community Colleges Chancellor's Office provides data on progress, success, employment, and earnings outcomes for California community college students.
Population and Occupation Demographics	The Census Bureau's American Community Survey (ACS) is the premier source for detailed population and housing information. Data is sourced from IPUMS USA , a database providing access to ACS and other Census Bureau data products.

All representations have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. The most recent data available at the time of the analysis was examined; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.

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