Throughout its history the City of Columbus has enjoyed a strong stable economy, but it has never had the type of rapid economic expansion experienced by some of its neighbors. In the Great Lakes Region Cleveland, Pittsburgh, and Cincinnati grew to become economic powerhouses and reached impressive population numbers in the 1800s. Columbus’ economy has grown steadily and strong over the course of its two hundred and two years of existence. The economy of Columbus has grown steadily in that it never had the booms or busts of its neighbors and has become so strong that it has long been labeled "recession proof". The country has experienced a great many periods of economic turmoil since Columbus’ founding in 1812 but Columbus has weathered them all. Currently, the city boasts a number of large corporate headquarters including American Electric Power, Nationwide Insurance, The L Brands (formerly the Limited). Columbus also is home to numerous world class research institutions such as: the Ohio State University, Chemical Abstracts, Ross Laboratories, Abbott Laboratories, and the Battelle Memorial Institute. The city boasts the headquarters national or major a facility for a number of banks including: Fifth Third, Huntington, and J.P. Morgan Chase. There are a number of factors that have, throughout its history, contributed to the economic success of Columbus. These factors are primarily the city’s location, and its diversified economic portfolio.

All cities economies are shaped by their locations, as cities tend to be built on certain sites for a reason. Advantageous placement, such as near a lake or river could bring success to a city and shape its future. The Great Lakes Region was many major
cities; some of them were built next to lakes such as Chicago and Cleveland, others along rivers like Pittsburgh and Cincinnati. Over the course of their history Cleveland, Pittsburgh and Cincinnati and Columbus have drawn many advantages from their location. Cleveland, Pittsburgh and Cincinnati’s proximity to lakes and rivers would allow the cities to become bustling boomtowns by the middle of the nineteenth century. Columbus grew modestly during much of the nineteenth century, but never having the booms that its neighbors would. From the beginning Columbus’ neighbors had advantages it did not. Being on the shore of Lake Erie, Cleveland has easy access to trade with other Great Lakes ports. Pittsburgh being further east was closer to the bustling East Coast and the confluence of the rivers meant that it was an important stop on trade routes west. Further west Cincinnati was the gateway to the western frontier as the Ohio River was one of the main routes for penetrating the country’s interior. Columbus has no lake, and its rivers, the Scioto and Olentangy, were barely navigable. Cleveland, Pittsburgh, and Cincinnati’s economic history was strongly shaped by their waterways, Columbus’ story, on the other hand, is quite different and it was forced to forge its own different path.

Two facts, often quoted by the Columbus’ Department of Development reveal the foundation of Columbus’ economy. These facts are that Columbus is with five hundred miles of half the nation’s population, and no single industry dominates the city’s economy. While Columbus’ location does not reveal any obvious benefits like Cleveland, Pittsburgh, and Cincinnati, its location did hugely impact the course of its economic development. The two facts above are both about the city are based largely based on the physical location of the city of Columbus. Columbus has been, and is, the nation’s crossroads. Though at its founding Columbus’ location was purely symbolic, it was at the
center of the state, however, this it would soon turn into a major factor in deciding the economic future of the city.

During the city’s first twenty years of existence from 1812 and 1832 Columbus’ economy was mainly focused on fulfilling its role as the state capital. Being the state capital would mean that the city would always have government as a major driver in the cities economy. In addition to being a seat of government, Columbus also had to meet the needs of the visiting legislators\textsuperscript{11}. Legislators needed housing, and food and supplies; this would also be the start of the tradition of a service industry that remains strong today\textsuperscript{12}. The role that government has played in Columbus’ economy has grown as the city ages \textsuperscript{13}. Not only is the city the capital of the state and the seat of Franklin County, but it is also a city that stretches for over 200 square miles and across three counties. Today Columbus has city, state, county, and federal offices, which make government the single largest employers in the city. According to the City of Columbus government accounts for eighteen percent of the jobs in the city or 158000 of the 904000 jobs in the city\textsuperscript{14}. High government employment has also given the city an industry to lean on in times of economic turmoil\textsuperscript{15}.

In 1834 Columbus’ population reached the four thousand mark and it officially became a city \textsuperscript{16}. While still small by 1834 Columbus’ location had become vastly more important since 1831 when the National Road reached the city, and a feeder canal to the Ohio and Erie Canal opened. According to Columbus historian Alfred Lee these to advancements ushered in “ [a] new era of trade and travel of material and social progresses...[and] commercially speaking {were} a revolution”\textsuperscript{17}. For the first time there was now an easy and reliable way to reach the city. Connection to the national road
opened the city to trade with the heavily populated east to the ever-growing western frontier. The canal opened the city to trade ranging from Canada to Mississippi\textsuperscript{18,19}. Truly Columbus was now a crossroads. For the beginning, its location on the trade routes had a dramatic impact on Columbus economy, travel the city was now easy, and many people and goods were passing through the city going east, west, north and south. For the first time it was simple for trade between all of Ohio’s main cities, goods from Cleveland could be sent down the canal through Columbus to end up in Cincinnati. At the head of the canal Cleveland’s markets gained a boost as goods flowed to the city to make their way south, Cincinnati’s position as the gateway to the west was enhanced as goods to go west were now easily obtained. In between Cleveland and Cincinnati was Columbus which began to realize its valuable location. One could not get to one town from the other without traveling through Columbus. This meant that goods in Columbus had the unique position of being able to go in either direction. Not only did Columbus get a boost from all of the individuals now moving to the city, but it also opened up the market to Columbus’ goods. Shortly after the Canal reached the city prices for Columbus’ farm goods doubled and demand for wood from the city skyrocketed\textsuperscript{20}.

Not only did demand for Columbus goods increase their prices, but also in response to the large amounts of freight entering and leaving the city, entrepreneurs found new ways to simplify the trade process and turn a profit. Warehouses and distribution centers and shipped products while wholesalers made it so that large amounts of products could be sold at the best prices. From the 1830s onward, distribution and storage would be a major driver in Columbus economy\textsuperscript{21}. This is where being located within 500 miles of half the nation’s population came into play. Though in
the 1830s it was an even higher percentage of the population. Being that closes to half the population means that goods shipped from Columbus can quickly reach much of the nation’s population, this meant that Columbus was a perfect location for storage, distribution and wholesale. By the turn of the 20th Columbus had its own warehouse district located northeast of Downtown. The importance of wholesale can be demonstrated by the number of hardware wholesalers have had locations in Columbus, including Timken, Buckeye Roller Bearings, Berry Brothers Bolt Works, among others\textsuperscript{22, 23}. Shortly after World War I, again, due to the city’s location, the federal government greatly increased their presence in the Columbus economy, as they located a Defense Construction Supply Center (DCSC) here in the city\textsuperscript{24}. Not only did the placement of DCSC in Columbus boast its economy, but also demonstrated the value of the city’s location. As the 20th century moved forward newer distribution centers would be placed in the city including J.C. Penny, Sears (the largest single roof warehouse building in the world) and Eddie Bauer (its only distribution center not located at its headquarters)\textsuperscript{25}. Distribution is still alive today in Columbus, the city even boasts one of the only cargo only airports in the world, Rickenbacker International Airport\textsuperscript{26}. Distribution and wholesale currently makes up 4% of the Columbus economic profile or 37300 jobs\textsuperscript{27}.

Columbus, to a large degree, owes its heavy industry to the railroads. When the Columbus and Xenia Railroad made its entrance into Columbus in 1851 a new phase in the city’s economic development had begun.\textsuperscript{28, 29, 30} Links to other cities by canal and road were a start but now Columbus was linked by rail to a much larger trade system. Railroads could ship a much high volume of goods at a greatly increased rate than canal or road. Cities were now hubs on an interconnected web of rail lines. Once again Columbus
was placed at a crossroads, which opened up many new economic opportunities for the city. The nation had grown larger since the National Road and Erie Canal entered Columbus and the railroads linked the city with a much greater trade system than ever before. Trains also linked Columbus to the bountiful natural resources that Ohio has to offer.

The first trains connected Columbus to the rich coalfields in southeastern Ohio to the Great Lakes and access to the ore being mined in Minnesota\(^{31}\). With trains ores mined in Minnesota could be efficiently brought to Columbus and even Cincinnati, via the Great Lakes and a stop in Cleveland. The 1850s through the 1870s saw new train routes entering the city, routes that would cross through from Pennsylvania in the east on the way to the major cities of Chicago and St. Louis in the west. The Pittsburgh, Cincinnati, Chicago and St. Louis Railroad line (the Panhandle route) of the Pennsylvania Railroad, became on of the largest and busiest routes between, as its name implies, Pittsburgh, Cincinnati, Chicago, and St. Louis, though it traveled through Columbus. Between north and south, east and west Columbus was the hub\(^{32,33}\).

Access to coal and ore allowed Columbus’ manufacturing industry to grow immensely. According to historian Alfred Lee “to such lands as these [the coalfields] unlocked by science, made accessible by railways and utilized by invention...Columbus owes chiefly her industrial consequences.”\(^{34}\). Coal from the south poured into Columbus’ factories as did metal from the north. Though manufacturing might become a driving force in Columbus’ economy, city's location would help ensure that neither it nor any other industry would dominate Columbus’ economic landscape\(^{35}\). Unlike Pittsburgh,
which was located near coalfields, or Cleveland, which had access to ores around the Great Lakes, and Cincinnati which had access to metals from the blast furnaces east on the Ohio River Columbus is located hundreds of miles from where the metals and coal were being mined making it inconvenient, and impracticable, to ship raw materials to the city. Much of the refining was done closer to the sources, meaning that processing the ores and coal would be the driving factor in economies close to the sources, but not in Columbus. This is part of the reason that heavy industry became the main driving force behind Cleveland and Pittsburgh, and Cincinnati, but not Columbus. During the major expansion of railroads from the 1850s through the 1880s Cleveland and Pittsburgh experienced periods of extremely rapid growth. The proximity to metals and speed of railroad shipping allowed Cleveland to go from a city about the size of Columbus at just over seventeen thousand residents to a population of a hundred and sixty thousand. The lure of Pittsburgh’s heavy industry allowed that city to grow from over eighty six thousand residents to over five hundred and thirty thousand. Columbus was, however, at the center of many trade routes and its factories obtained much of the refined ores and coal, from cities like Cleveland and Pittsburgh, which were in turn used to create finished products. Even though Columbus would not have the boom that its regional neighbors did from heavy industry it still could benefit from it. Columbus during this time was able to grow to a city of over fifty thousand residents.

During the 1880s and 1890s Columbus grew to be an industrial powerhouse, though not quite on par with Cleveland, Pittsburgh, or Cincinnati. Columbus instead focused on making finished products and the Jeffrey Manufacturing Company and the Columbus Buggy Company were able to allow the city to become the largest producer of
mining equipment and horse drawn buggies in the world. Until World War I Columbus manufacturing continued relatively unchanged. The Great Depression struck Columbus’ manufacturing industry heavily, and it would not be until World War II when Columbus manufacturing took off again. Even though heavy industry ground to almost a halt during the Depression, Columbus managed to make it through better than Cleveland or Pittsburgh. Columbus’ economy depended much less on heavy manufacturing than its neighbors meaning that its economy could be supported by the other industries.

Decisions made by the Federal Government during World War II helped to revitalize Columbus economy. During the war the Federal Government decided to place the Curtiss Wright airplane plant in the Columbus (once again due to the city’s centralized location), this would spur new manufacturing again in the city after the war. By the end of World War II, in part due to the work of Columbus Mayor James Rhodes Westinghouse, GM Motors would take up residence in Columbus. By the 1950s Western Electric and North American Aviation (replacing Curtiss Wright) would have homes in Columbus. By the 1950s Western Electric and North American Aviation (replacing Curtiss Wright) would have homes in Columbus.

Columbus is not located in an area that would lend itself to primarily focusing on heavy industry. Because of this and the fact that manufacturing entered Columbus’ economic portfolio comparatively late it never dominated the city. Rather manufacturing, would simply add another pillar on which Columbus’ economic health would rest. In contrast to Columbus cities such as Cleveland, Pittsburgh and Cincinnati would experience huge jobs losses during the 1970s and 1980s. In part due to increased competition from overseas as a result of an increasing amount of globalization, Cleveland, Pittsburgh, and Cincinnati all faced crisis in their manufacturing sectors. Today manufacturing makes up seven percent of the jobs in Columbus, with sixty three thousand workers.
The confluence of train routes at Columbus also opened other avenues for economic growth for the city. Trade and industry brought new money and people to the city of Columbus. To cope with the influx of wealth into the city Columbus has developed a strong financial industry. It was in the 1866s that Huntington Bank started. Many major banks call Columbus home, or have a major facility here. Huntington and Fifth Third each have their own skyscraper downtown, and J.P. Morgan Chase has a large processing building. Insurance entered the Columbus market heavily in the 1920s when the Ohio Farm Bureau Federation incorporated the insurance Farm Bureau Mutual Automobile Insurance Company. In the 1950s the Company change its name to Nationwide Insurance. Today Nationwide is a Fortune 100 company that employs over eleven thousand and controls multiply blocks downtown by their corporate headquarters. Many other insurance companies call Columbus home including the Grange. Finance is a particularly strong pillar in Columbus’ economic portfolio as the city has a high percentage of financial jobs as compared to the rest of the country. Today the financial industry makes up seven percent of Columbus jobs with over sixty eight thousand employees.

Included in Columbus diverse economic profile are the fields of research and technology. Columbus, in part owes its strong research tradition to its history of manufacturing. Columbus is home to the Battelle Memorial Institute, which is the single largest non-profit institution in the world. Battelle Memorial founder Gordon Battelle at one time worked in his fathers steel mills learning the arts of metallurgy and left his bequest to found a foundation that sought to advance the metallurgy field, though it left room for scientific advances in general. During the 1950s Battelle worked to produce the electrostatic copying processes that are now used in all copiers. The early work with
Xerox produced vast sums of money that were used to transform the small facility into the massive research facility that it is today\textsuperscript{59,60}. Today Battelle employs over two thousand employees and is magnet for researchers coming to Columbus from all over the world\textsuperscript{61}. Columbus is also home to many other world class research institutions. Ross Laboratories, maker of formulas and nutritional supplements had got its start in 1903. Today Ross Laboratories in now a part of Abbott Nutrition and is a leading researcher into diet and nutrition\textsuperscript{62}. Chemical Abstracts Services (part of the American Chemical Society) started in 1907 and is now is the largest compiler of chemical formulas\textsuperscript{63}. Demonstrating how important research is to Columbus’ economy is the fact that Battelle, Abbott Nutrition, and Chemical Abstracts are the 19th, 21st and 34th largest employers in the city, respectively\textsuperscript{64}.

Closely related to research is the technology field. In 2008 Columbus was rated by Forbes as the number one Up and Coming Tech City in the nation\textsuperscript{65}. The area in and around Columbus contains two thousand science and technology firms and institutions meaning that the city is a large magnet for those seeking positions in the technology field\textsuperscript{66}. Indicative of Columbus tech potential is the Online Computer Library Center (OCLC). Founded in 1967 OCLC sought to bring technology to libraries, using computers for cataloging. Today OCLC’s CONTENTdm is used by many major museums, and its WorldCat connects libraries across the globe\textsuperscript{67}. Companies such as OCLC are anchors for Columbus’ technology field and will help it advance in the future.

No discussion of research would be complete with out mentioning the Ohio State University. From its small beginnings in 1873 until now the Ohio State University
continues to provide a large financial impact on the City of Columbus. Though the various
governments combined provide a larger number of jobs, the Ohio State University is the
largest employer in Columbus as a single entity, with a total just short of thirty thousand
full time positions\(^6\). Between tuition, spending by students, visitors, and athletic game
attendees, it is estimated that the Ohio State University has an impact of 2.4 billion dollars
to the Columbus economy\(^6\).

Rounding out Columbus economic portfolio is its retail industry. Though Columbus
has always had a certain amount of retail, Alfred Lee lists in depth the stores available to
the early residents; it was not until the 1950s and 1960s that retail joined the ranks of the
major industries\(^7\). Columbus itself experienced tremendous growth in area during the
1950s and 60s as Mayor Sensenbrenner and the City Council pursued a policy of
aggressive annexation. As the city grew so to did demand for new commercial outlets.
Prior to this time retail was mainly focused Downtown with the department store Lazarus
as the anchor\(^8\). With annexation came a rise in new retail and service jobs in the city,
particularly on the city's peripheries, a trend that continues today\(^7\). It was during this
time that Columbus' retail future was made, not only was there was a shift to near
suburban shopping, but also many of the present retail moguls got their start during this
period. Leslie Wexner, whose Limited Brands would become a driving forces in Columbus'
commercial field by the end of the 20th century opened his first store in 1963 \(^3\).
Today eleven percent of Columbus' jobs are in the retail field with ninety six thousand
employees \(^4\).
Leading into the 21st century Columbus boasts an economy based on government, research, education, finance, and retail. The diverse portfolio of economic drivers has helped Columbus maintain a stable economic course throughout its history. When one pillar of the economy is weak the others remain to stabilize the city\textsuperscript{75}. At the beginnings of the 21st century Columbus’ economy has been a bright spot in the Midwest. While its neighbors Cleveland, Pittsburgh, and Cincinnati all suffered massive declines during the 20th century Columbus has remained constantly growing. Consistently Columbus now outperforms its region and the United States in many metrics measuring economic health\textsuperscript{76}. With a sound economy built on many different pillars Columbus’ economic story illustrates how to weather economic storms. Columbus’ resilience in the face of economic troubles is evidenced in the fact that as of January 2013 it was the only city in the Midwest to regain the jobs lost during the Great Recession. The situation for Columbus’ neighbors has been improving since the latest economic downturn. Lately Columbus’s neighbors have all been diversifying their economic portfolios. The Great Lakes region has been experiencing a rapid growth in the number knowledge based jobs versus, manufacturing jobs, jobs that do well when the manufacturing sector is suffering\textsuperscript{78}. In recent years, particularly following the Great Recession, Cleveland, Pittsburgh and Pittsburgh have begun leaving their heavy manufacturing past behind and have been focused on a wider range of industries. Great strides have been made in all three cities in the areas of business services, finance, and healthcare\textsuperscript{79, 80, 81}. The future will see a region of cities with numerous strong avenues of economic development, cities that in many ways mirror the City of Columbus.
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