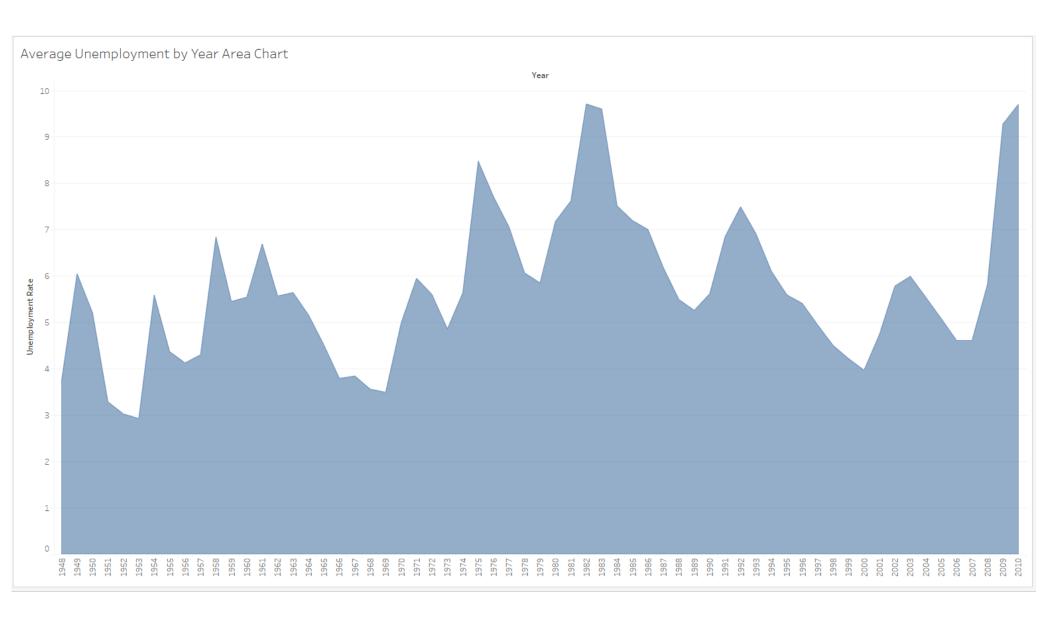
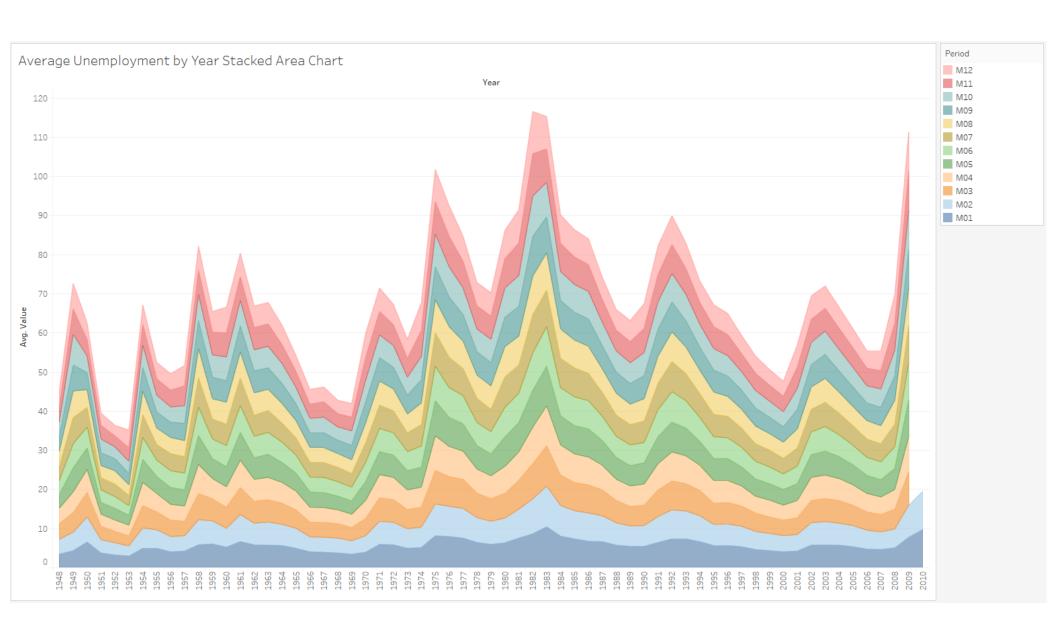
### **Visualizations in Tableau**

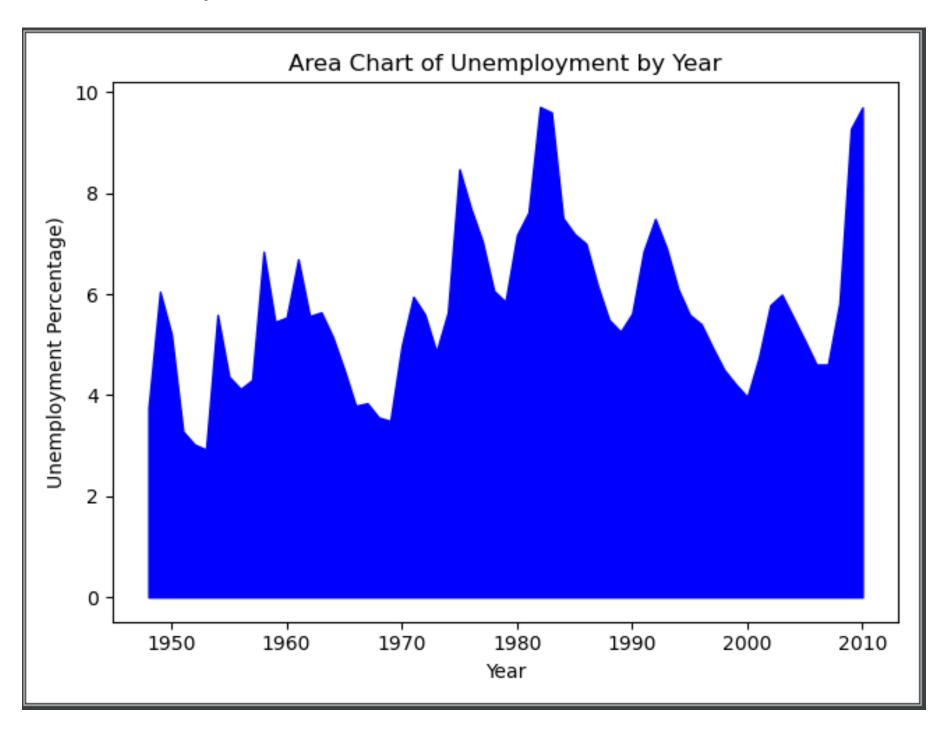


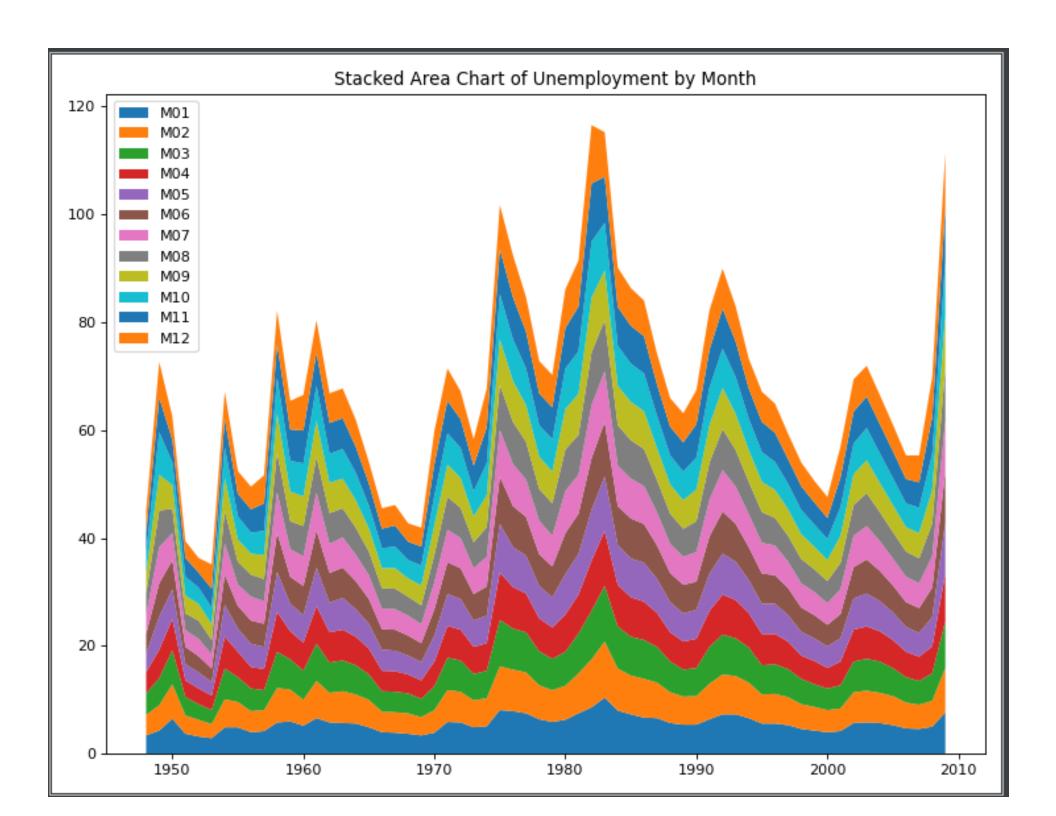


### Average Unemployment for December Tree Map

1982 10.800	1992 7.400	1949 6.600	1970 6.100	1961 6.000	197. 6.00	1971 6.000		1978 6.000		1979 6.000		2002 6.000		1987 5.700	
	2008 7.400	1960 6.600													
2009 10.000			2001 5.700	1989 5.400	)	1996 5.400		2004 5.400		1959 5.300		1988 5.300		1957 5.20	
	1984 7.300	1986 6.600													
			2003 5.700												
1981 3.500	1991	1002		1972 5.20	)		2005 4.900		1997 4.700		1953 4.500		998		006 .400
	7.300	1993 6.500	1995	1995 5.600											
			3.500	1954 5.000											
1983 8.300	1974 7.200	1977 6.400	1962		1964 5.000		1950 4.300		1965	965 1999 .000 4.000			2000 3.900		
			5.500						4.00			3.90		)0	
1975 8.200	1980	1990		3.00	5.000		1955 4.200 1956 4.200			1966 3.800					
	7.200	6.300	1963 5.500		2007 5.000								1968 3.400		1951 3.10
				5.000											
1976 7.800	1985 7.000	1958 6.200	1994 5.500	1973	1973 4.900		1948 4.000			3.800					
			3.500	4.90					1969 3.500		195	52			

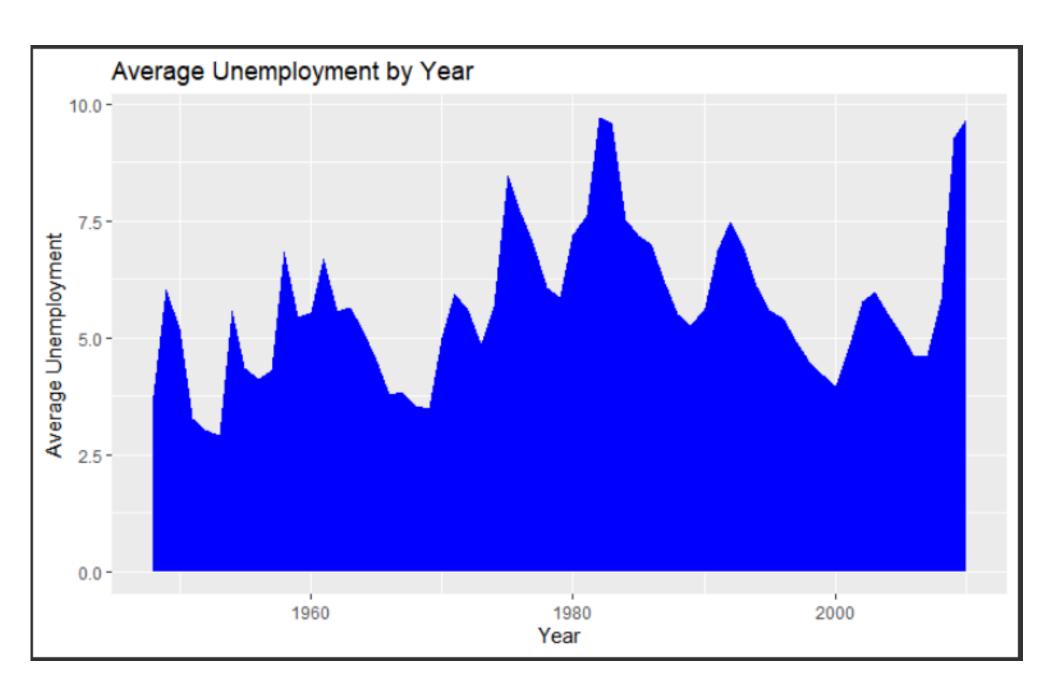
## **Visualizations in Python**

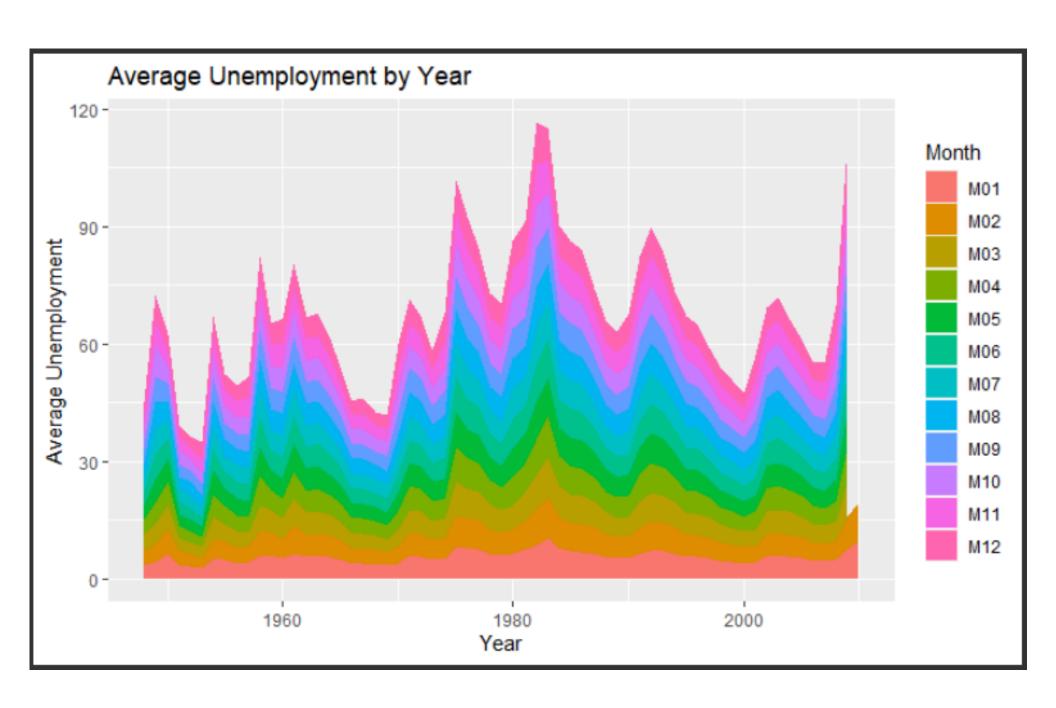




Heatmap of Unemployment in December											
1965 - 4.0% 197	72 - 5.2%	2001 - 5.7%	1993 - 6.5%	1991 - 7.3%	1983 - 8.3%	1982 - 10.8%					
1999 - 4.0% 195	57 - 5.2%	2003 - 5.7%	1977 - 6.4%	1984 - 7.3%	1975 - 8.2%	1981 - 8.5%	2009 - 10.0%				
2000 - 3.9%	54 - 5.0%	1987 - 5.7%	1990 - 6.3%	1974 - 7.2%	1373 - 0.2%						
1967 - 3.8%	07 - 5.0%	1995 - 5.6%	1958 - 6.2%	1980 - 7.2%	2008 - 7.4%	1992 - 7.4%	1976 - 7.8%				
1966 - 3.8% 196	54 - 5.0%	1962 - 5.5%	1970 - 6.1%	1986 - 6.6%	1949 - 6.6%	1960 - 6.6%	1985 - 7.0%				
1969 - 3.5% 197 1968 - 3.4%	73 - 4.9%	1994 - 5.5%	2002 - 6.0%	1978 - 6.0%	1961 - 6.0%	1979 - 6.0%	1971 - 6.0%				
	05 - 4.9%	1988 - 5.3%	1959 - 5.3%	1996 - 5.4%	2004 - 5.4%	1989 - 5.4%	1963 - 5.5%				
1952 - 2.7% <sup>194</sup>	8 - 4.0%	1955 - 4.2%	1956 - 4.2% 195	0 - 4.3% 2006 - 4	4.4% 1998 - 4.49	% 1953 - 4.5%	1997 - 4.7%				

## Visualizations in R





# Tree Map of Unemployment by Year for December

1982-10.8	1976-7.8	1974-7.2	1993-6.5	1971-6	1978-6	1979-6	2002-6	1987-5.7	2001-5.7
	1992-7.4	1980-7.2	1977-6.4	2003-5.7	1989-5.4	1996-5.4	2004-5.4	1959-5.3	1988-5.3
2009-10		1985-7	1990-6.3	1995-5.6	1957-5.2	2007-5	1973-4.9	2005-4.9	1997-4.7
1981-8.5		1949-6.6	1958-6.2	1962-5.5	1972-5.2	1953-4.5	1950-4.3	1955-4.2	1956-4.2
1983-8.3	1984-7.3	1960-6.6	1970-6.1	1963-5.5	1954-5	1998-4.4		2000-3.9 1967-3.8	
1975-8.2	1991-7.3	1986-6.6	1961-6	1994-5.5	1964-5	2006 4 4		1969-3.5	1952-2.7