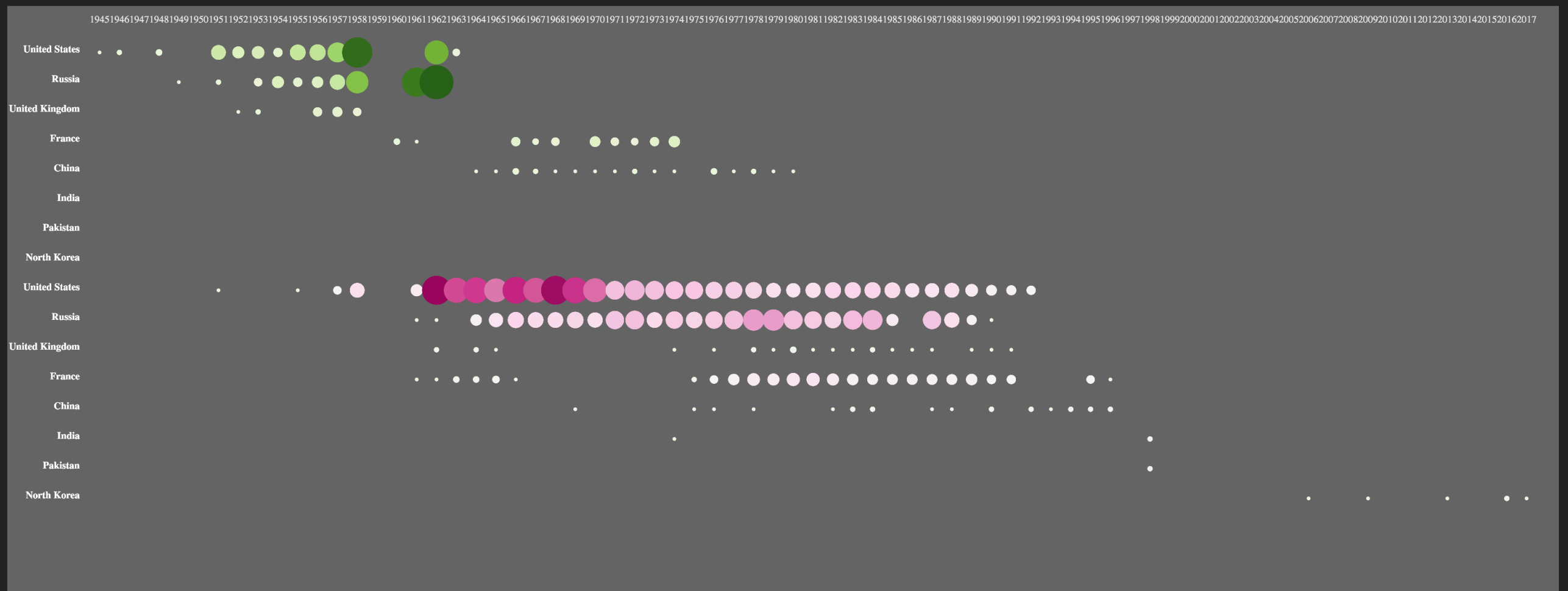


CONCEPT 1



THIS APPROACH ATTEMPTS TO MAKE A CLEAR PERCEPTUAL DISTINCTION BETWEEN ATMOSPHERIC AND UNDERGROUND TESTS BY DRAWING THE ATMOSPHERIC TESTS AS CIRCLES IN THE UPPER HALF OF THE CANVAS AND UNDERGROUND TESTS IN THE LOWER HALF. A DIVERGENT PALETTE FURTHER EMPHASIZES THE DIFFERENCE.

CONCEPT 2

1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974

BY INPUTTING A SEQUENTIAL RED PALETTE RANGE TO THE TEXT ITSELF, THIS CONCEPT REPRESENTS TEST TOTALS VIA THE INTENSITY OF THE COLOR VALUE WHEN EACH YEAR IS DRAWN. THE AIM IS FOR MAXIMUM SIMPLICITY.

The chart displays the percentage of the population in each country that is 'Very satisfied' with the U.S. president, categorized by year from 1945 to 2017. The color scale ranges from yellow (Very satisfied) to dark brown (Very dissatisfied). The data is as follows:

Country	Very satisfied (%)	Very dissatisfied (%)
United States	~45	~55
Russia	~45	~55
United Kingdom	~45	~55
France	~45	~55
China	~45	~55
India	~45	~55
Pakistan	~45	~55
North Korea	~45	~55

EACH COUNTRY/YEAR IS ASSIGNED A SQUARE BOX TO DRAW A HEAT MAP. A SEQUENTIAL YELLOW-RED-BROWN PALETTE IS APPLIED TO EACH BOX TO REPRESENT THE NUMBER OF TESTS FOR EACH COUNTRY IN A GIVEN YEAR. THE 0-30 RANGE BALANCES THE NEED TO HIGHLIGHT YEARS WITH MANY TESTS AND THOSE WITH FEW.

CONCEPT 4

United States	1945:2/31255	1946:3/31255	1947:13/31255	1948:5/31255	1949:17/31255	1950:299/31255	1951:438/31255	1952:841/31255	1953:1169/31255	1954:1703/31255	1955:2422/31255	1956:3692/31255	1957:5643/31255	1958:7345/31255	1959:12298/31255	1960:18638/31255	1961:22229/31255	1962:25540/31255	1963:28133/31255	1964:29463/31255	1965:31139/31255	1966:31175/31255	1967:31255/31255	1968:29561/31255	1969:27552/31255	1970:26008/31255	1971:25830/31255	1972:26008/31255
Russia	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:1/40159	1950:5/40159	1951:25/40159	1952:50/40159	1953:120/40159	1954:150/40159	1955:200/40159	1956:426/40159	1957:660/40159	1958:863/40159	1959:1048/40159	1960:1627/40159	1961:2492/40159	1962:3346/40159	1963:4259/40159	1964:5242/40159	1965:6144/40159	1966:7091/40159	1967:8400/40159	1968:9490/40159	1969:10671/40159	1970:11706/40159	1971:13278/40159	1972:14840/40159
United Kingdom	1945:0/500	1946:0/500	1947:0/500	1948:0/500	1949:0/500	1950:0/500	1951:0/500	1952:0/500	1953:1/500	1954:5/500	1955:10/500	1956:50/500	1957:56/500	1958:60/500	1959:76/500	1960:105/500	1961:155/500	1962:211/500	1963:256/500	1964:271/500	1965:271/500	1966:281/500	1967:355/500	1968:317/500	1969:306/500	1970:375/500	1971:412/500	1972:412/500
France	1945:0/540	1946:0/540	1947:0/540	1948:0/540	1949:0/540	1950:0/540	1951:0/540	1952:0/540	1953:0/540	1954:0/540	1955:0/540	1956:0/540	1957:0/540	1958:0/540	1959:0/540	1960:0/540	1961:0/540	1962:0/540	1963:0/540	1964:4/540	1965:32/540	1966:36/540	1967:36/540	1968:36/540	1969:36/540	1970:36/540	1971:45/540	1972:71/540
China	1945:0/250	1946:0/250	1947:0/250	1948:0/250	1949:0/250	1950:0/250	1951:0/250	1952:0/250	1953:0/250	1954:0/250	1955:0/250	1956:0/250	1957:0/250	1958:0/250	1959:0/250	1960:0/250	1961:0/250	1962:0/250	1963:0/250	1964:1/250	1965:5/250	1966:20/250	1967:25/250	1968:35/250	1969:50/250	1970:75/250	1971:100/250	1972:110/250
India	1945:0/110	1946:0/110	1947:0/110	1948:0/110	1949:0/110	1950:0/110	1951:0/110	1952:0/110	1953:0/110	1954:0/110	1955:0/110	1956:0/110	1957:0/110	1958:0/110	1959:0/110	1960:0/110	1961:0/110	1962:0/110	1963:0/110	1964:0/110	1965:0/110	1966:0/110	1967:0/110	1968:0/110	1969:0/110	1970:0/110	1971:0/110	1972:0/110
Pakistan	1945:0/120	1946:0/120	1947:0/120	1948:0/120	1949:0/120	1950:0/120	1951:0/120	1952:0/120	1953:0/120	1954:0/120	1955:0/120	1956:0/120	1957:0/120	1958:0/120	1959:0/120	1960:0/120	1961:0/120	1962:0/120	1963:0/120	1964:0/120	1965:0/120	1966:0/120	1967:0/120	1968:0/120	1969:0/120	1970:0/120	1971:0/120	1972:0/120
North Korea	1945:0/0	1946:0/0	1947:0/0	1948:0/0	1949:0/0	1950:0/0	1951:0/0	1952:0/0	1953:0/0	1954:0/0	1955:0/0	1956:0/0	1957:0/0	1958:0/0	1959:0/0	1960:0/0	1961:0/0	1962:0/0	1963:0/0	1964:0/0	1965:0/0	1966:0/0	1967:0/0	1968:0/0	1969:0/0	1970:0/0	1971:0/0	1972:0/0
Israel	1945:0/80	1946:0/80	1947:0/80	1948:0/80	1949:0/80	1950:0/80	1951:0/80	1952:0/80	1953:0/80	1954:0/80	1955:0/80	1956:0/80	1957:0/80	1958:0/80	1959:0/80	1960:0/80	1961:0/80	1962:0/80	1963:0/80	1964:0/80	1965:0/80	1966:0/80	1967:2/80	1968:4/80	1969:6/80	1970:8/80	1971:11/80	1972:11/80

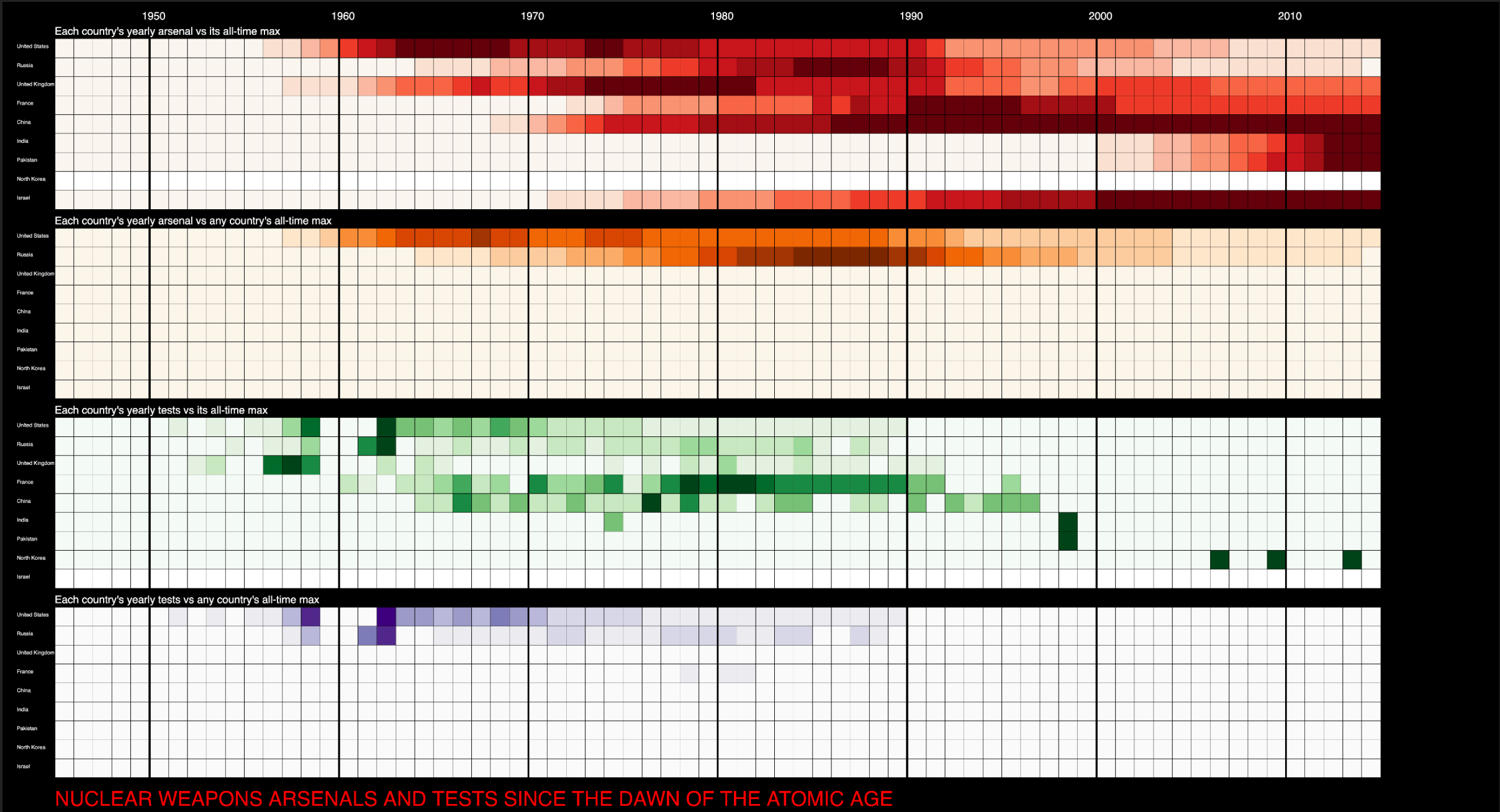
United States	1945:2/40159	1946:3/40159	1947:13/40159	1948:5/40159	1949:17/40159	1950:299/40159	1951:438/40159	1952:841/40159	1953:1169/40159	1954:1703/40159	1955:2422/40159	1956:3692/40159	1957:5643/40159	1958:7345/40159	1959:12298/40159	1960:18638/40159	1961:22229/40159	1962:25540/40159	1963:28133/40159	1964:29463/40159	1965:31139/40159	1966:31175/40159	1967:31255/40159	1968:29561/40159	1969:27552/40159	1970:26008/40159	1971:25830/40159	1972:26008/40159
Russia	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:1/40159	1950:5/40159	1951:25/40159	1952:50/40159	1953:120/40159	1954:150/40159	1955:200/40159	1956:426/40159	1957:660/40159	1958:863/40159	1959:1048/40159	1960:1627/40159	1961:2492/40159	1962:3346/40159	1963:4259/40159	1964:5242/40159	1965:6144/40159	1966:7091/40159	1967:8400/40159	1968:9490/40159	1969:10671/40159	1970:11706/40159	1971:13278/40159	1972:14840/40159
United Kingdom	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:1/40159	1954:5/40159	1955:10/40159	1956:50/40159	1957:56/40159	1958:60/40159	1959:76/40159	1960:105/40159	1961:155/40159	1962:211/40159	1963:256/40159	1964:271/40159	1965:271/40159	1966:281/40159	1967:355/40159	1968:317/40159	1969:306/40159	1970:375/40159	1971:412/40159	1972:412/40159
France	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:0/40159	1954:0/40159	1955:0/40159	1956:0/40159	1957:0/40159	1958:0/40159	1959:0/40159	1960:0/40159	1961:0/40159	1962:0/40159	1963:0/40159	1964:4/40159	1965:32/40159	1966:36/40159	1967:36/40159	1968:36/40159	1969:36/40159	1970:36/40159	1971:45/40159	1972:71/40159
China	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:0/40159	1954:0/40159	1955:0/40159	1956:0/40159	1957:0/40159	1958:0/40159	1959:0/40159	1960:0/40159	1961:0/40159	1962:0/40159	1963:0/40159	1964:1/40159	1965:5/40159	1966:20/40159	1967:25/40159	1968:35/40159	1969:50/40159	1970:75/40159	1971:100/40159	1972:110/40159
India	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:0/40159	1954:0/40159	1955:0/40159	1956:0/40159	1957:0/40159	1958:0/40159	1959:0/40159	1960:0/40159	1961:0/40159	1962:0/40159	1963:0/40159	1964:0/40159	1965:0/40159	1966:0/40159	1967:0/40159	1968:0/40159	1969:0/40159	1970:0/40159	1971:0/40159	1972:0/40159
Pakistan	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:0/40159	1954:0/40159	1955:0/40159	1956:0/40159	1957:0/40159	1958:0/40159	1959:0/40159	1960:0/40159	1961:0/40159	1962:0/40159	1963:0/40159	1964:0/40159	1965:0/40159	1966:0/40159	1967:0/40159	1968:0/40159	1969:0/40159	1970:0/40159	1971:0/40159	1972:0/40159
North Korea	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:0/40159	1954:0/40159	1955:0/40159	1956:0/40159	1957:0/40159	1958:0/40159	1959:0/40159	1960:0/40159	1961:0/40159	1962:0/40159	1963:0/40159	1964:0/40159	1965:0/40159	1966:0/40159	1967:0/40159	1968:0/40159	1969:0/40159	1970:0/40159	1971:0/40159	1972:0/40159
Israel	1945:0/40159	1946:0/40159	1947:0/40159	1948:0/40159	1949:0/40159	1950:0/40159	1951:0/40159	1952:0/40159	1953:0/40159	1954:0/40159	1955:0/40159	1956:0/40159	1957:0/40159	1958:0/40159	1959:0/40159	1960:0/40159	1961:0/40159	1962:0/40159	1963:0/40159	1964:0/40159	1965:0/40159	1966:0/40159	1967:2/40159	1968:4/40159	1969:6/40159	1970:8/40159	1971:11/40159	1972:11/40159

THIS CONCEPT INCORPORATES AN EXTERNAL DATA SOURCE FROM OUR WORLD IN DATA THAT TRACKS NUCLEAR WEAPONS ARSENALS OVER TIME: [HTTPS://OURWORLDINDATA.ORG/NUCLEAR-WEAPONS](https://ourworldindata.org/nuclear-weapons). WARHEAD DATA IS VISUALIZED AS RAW NUMBERS WITH COLOR VALUES INPUTED TO THE TEXT.

CONCEPT 5

United States	1945.03125	1946.35125	1947.13125	1948.05125	1949.1703125	1950.2893125	1951.4083125	1952.8415125	1953.1169125	1954.1703125	1955.2423125	1956.3663125	1957.5543125	1958.7343125	1959.12563125	1960.16883125	1961.22243125	1962.2543125	1963.1953125	1964.2943125	1965.3113125	1966.311753125	1967.312553125	1968.2998125	1969.27523125	1970.2603125	1971.2553125	1972.260153125	1973.27635125	1974.2853125	1975.275153125	1976.29143125	1977.2943125	1978.276153125	1979.241153125	1980.241043125	1981.230353125	1982.22893125	1983.22303125	1984.23453125	1985.23353125	1986.23173125	1987.23173125	1988.23253125	1989.23143125	1990.23243125
Russia	1945.040153	1946.040153	1947.040153	1948.040153	1949.140153	1950.540153	1951.2540153	1952.8040153	1953.13040153	1954.15340153	1955.20040153	1956.42640153	1957.69340153	1958.95340153	1959.154640153	1960.16740153	1961.240240153	1962.331640153	1963.428640153	1964.524240153	1965.614440153	1966.738140153	1967.840240153	1968.943040153	1969.136740153	1970.177640153	1971.1327640153	1972.1267640153	1973.140240153	1974.177640153	1975.177640153	1976.177640153	1977.240840153	1978.25167640153	1979.2625940153	1980.309640153	1981.3214640153	1982.3348640153	1983.3513040153	1984.362540153	1985.3856240153	1986.431640153	1987.3812740153	1988.3853640153	1989.3927840153	1990.325640153
United Kingdom	1945.0500	1946.0500	1947.0500	1948.0500	1949.0500	1950.0500	1951.0500	1952.0500	1953.1500	1954.0500	1955.1500	1956.0500	1957.0500	1958.0500	1959.7500	1960.10500	1961.15500	1962.21100	1963.26200	1964.32700	1965.37100	1966.38100	1967.35000	1968.31700	1969.29300	1970.37500	1971.47800	1972.42300	1973.50000	1974.50000	1975.50000	1976.50000	1977.50000	1978.50000	1979.50000	1980.50000	1981.50000	1982.50000	1983.50000	1984.50000	1985.50000	1986.50000	1987.50000	1988.50000	1989.50000	1990.50000
France	1945.0540	1946.0540	1947.0540	1948.0540	1949.0540	1950.0540	1951.0540	1952.0540	1953.0540	1954.0540	1955.0540	1956.0540	1957.0540	1958.0540	1959.0540	1960.0540	1961.0540	1962.0540	1963.0540	1964.0540	1965.0540	1966.0540	1967.0540	1968.0540	1969.0540	1970.0540	1971.0540	1972.0540	1973.118540	1974.140540	1975.166540	1976.123540	1977.123540	1978.123540	1979.123540	1980.123540	1981.210540	1982.216290	1983.216290	1984.230540	1985.222290	1986.224250	1987.226250	1988.228290	1989.230250	1990.232250
China	1945.0550	1946.0550	1947.0550	1948.0550	1949.0550	1950.0550	1951.0550	1952.0550	1953.0550	1954.0550	1955.0550	1956.0550	1957.0550	1958.0550	1959.0550	1960.0550	1961.0550	1962.0550	1963.0550	1964.1050	1965.0550	1966.25020	1967.25020	1968.25020	1969.25020	1970.25020	1971.10020	1972.10020	1973.16020	1974.17020	1975.16020	1976.16020	1977.16020	1978.16020	1979.16020	1980.205020	1981.210250	1982.216290	1983.216290	1984.230540	1985.222290	1986.224250	1987.226250	1988.228290	1989.230250	1990.232250
India	1945.0110	1946.0110	1947.0110	1948.0110	1949.0110	1950.0110	1951.0110	1952.0110	1953.0110	1954.0110	1955.0110	1956.0110	1957.0110	1958.0110	1959.0110	1960.0110	1961.0110	1962.0110	1963.0110	1964.0110	1965.0110	1966.0110	1967.0110	1968.0110	1969.0110	1970.0110	1971.0110	1972.0110	1973.0110	1974.0110	1975.0110	1976.0110	1977.0110	1978.0110	1979.0110	1980.0110	1981.0110	1982.0110	1983.0110	1984.0110	1985.0110	1986.0110	1987.0110	1988.0110	1989.0110	1990.0110
Pakistan	1945.0710	1946.0710	1947.0710	1948.0710	1949.0710	1950.0710	1951.0710	1952.0710	1953.0710	1954.0710	1955.0710	1956.0710	1957.0710	1958.0710	1959.0710	1960.0710	1961.0710	1962.0710	1963.0710	1964.0710	1965.0710	1966.0710	1967.0710	1968.0710	1969.0710	1970.0710	1971.0710	1972.0710	1973.0710	1974.0710	1975.0710	1976.0710	1977.0710	1978.0710	1979.0710	1980.0710	1981.0710	1982.0710	1983.0710	1984.0710	1985.0710	1986.0710	1987.0710	1988.0710	1989.0710	1990.0710
North Korea	1945.00	1946.00	1947.00	1948.00	1949.00	1950.00	1951.00	1952.00	1953.00	1954.00	1955.00	1956.00	1957.00	1958.00	1959.00	1960.00	1961.00	1962.00	1963.00	1964.00	1965.00	1966.00	1967.00	1968.00	1969.00	1970.00	1971.00	1972.00	1973.00	1974.00	1975.00	1976.00	1977.00	1978.00	1979.00	1980.00	1981.00	1982.00	1983.00	1984.00	1985.00	1986.00	1987.00	1988.00	1989.00	1990.00
Israel	1945.080	1946.080	1947.080	1948.080	1949.080	1950.080	1951.080	1952.080	1953.080	1954.080	1955.080	1956.080	1957.080	1958.080	1959.080	1960.080	1961.080	1962.080	1963.080	1964.080	1965.080	1966.080	1967.080	1968.080	1969.080	1970.080	1971.080	1972.1380	1973.1580	1974.1780	1975.080	1976.080	1977.2480	1978.080	1979.080	1980.080	1981.080	1982.080	1983.080	1984.080	1985.080	1986.080	1987.4180	1988.4080	1989.4180	1990.4180
United States	1945.056	1946.056	1947.056	1948.056	1949.1056	1950.2556	1951.4056	1952.84156	1953.11656	1954.17056	1955.24256	1956.36656	1957.55456	1958.73456	1959.12566	1960.16886	1961.22246	1962.25456	1963.19556	1964.29456	1965.31156	1966.3117556	1967.3125556	1968.299856	1969.275256	1970.260356	1971.255356	1972.2601556	1973.2763556	1974.285356	1975.2751556	1976.291456	1977.294356	1978.2761556	1979.2411556	1980.2410456	1981.2303556	1982.228956	1983.223056	1984.234556	1985.233556	1986.231756	1987.231756	1988.232556	1989.231456	1990.232456
Russia	1945.056	1946.056	1947.056	1948.056	1949.156	1950.556	1951.2556	1952.8056	1953.13056	1954.15056	1955.20056	1956.42656	1957.69356	1958.95356	1959.154656	1960.167456	1961.240256	1962.25156	1963.42656	1964.524256	1965.614456	1966.738156	1967.840256	1968.943056	1969.136756	1970.177656	1971.132756	1972.126756	1973.140256	1974.177656	1975.177656	1976.177656	1977.240856	1978.25167656	1979.26259456	1980.309656	1981.3214656	1982.3348656	1983.3513056	1984.3625456	1985.3856256	1986.431656	1987.38127656	1988.3853656	1989.3927856	1990.325656
United Kingdom	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.156	1954.056	1955.156	1956.056	1957.056	1958.056	1959.7556	1960.10556	1961.15056	1962.21156	1963.26656	1964.32756	1965.37156	1966.38156	1967.35056	1968.31756	1969.29356	1970.37556	1971.47856	1972.42356	1973.50056	1974.50056	1975.50056	1976.50056	1977.50056	1978.50056	1979.50056	1980.50056	1981.50056	1982.50056	1983.50056	1984.50056	1985.50056	1986.50056	1987.50056	1988.50056	1989.50056	1990.50056
France	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.056	1954.056	1955.056	1956.056	1957.056	1958.056	1959.056	1960.056	1961.056	1962.056	1963.056	1964.056	1965.056	1966.056	1967.056	1968.056	1969.056	1970.056	1971.056	1972.056	1973.11656	1974.14856	1975.16856	1976.12356	1977.22856	1978.23556	1979.23556	1980.23556	1981.27456	1982.27456	1983.23556	1984.23556	1985.30056	1986.41056	1987.42056	1988.41056	1989.41056	1990.42056
China	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.056	1954.056	1955.056	1956.056	1957.056	1958.056	1959.056	1960.056	1961.056	1962.056	1963.056	1964.156	1965.056	1966.2006	1967.2006	1968.2006	1969.2006	1970.2006	1971.056	1972.1306	1973.1306	1974.1706	1975.1606	1976.1606	1977.1606	1978.1606	1979.1606	1980.2206	1981.2106	1982.2106	1983.2106	1984.2206	1985.2226	1986.2246	1987.2266	1988.2266	1989.2306	1990.2306
India	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.056	1954.056	1955.056	1956.056	1957.056	1958.056	1959.056	1960.056	1961.056	1962.056	1963.056	1964.056	1965.056	1966.056	1967.056	1968.056	1969.056	1970.056	1971.056	1972.056	1973.056	1974.056	1975.056	1976.056	1977.056	1978.056	1979.056	1980.056	1981.056	1982.056	1983.056	1984.056	1985.056	1986.056	1987.056	1988.056	1989.056	1990.056
Pakistan	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.056	1954.056	1955.056	1956.056	1957.056	1958.056	1959.056	1960.056	1961.056	1962.056	1963.056	1964.056	1965.056	1966.056	1967.056	1968.056	1969.056	1970.056	1971.056	1972.056	1973.056	1974.056	1975.056	1976.056	1977.056	1978.056	1979.056	1980.056	1981.056	1982.056	1983.056	1984.056	1985.056	1986.056	1987.056	1988.056	1989.056	1990.056
North Korea	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.056	1954.056	1955.056	1956.056	1957.056	1958.056	1959.056	1960.056	1961.056	1962.056	1963.056	1964.056	1965.056	1966.056	1967.056	1968.056	1969.056	1970.056	1971.056	1972.056	1973.056	1974.056	1975.056	1976.056	1977.056	1978.056	1979.056	1980.056	1981.056	1982.056	1983.056	1984.056	1985.056	1986.056	1987.056	1988.056	1989.056	1990.056
Israel	1945.056	1946.056	1947.056	1948.056	1949.056	1950.056	1951.056	1952.056	1953.056	1954.056	1955.056	1956.056	1957.056	1958.056	1959.056	1960.056	1961.056	1962.056	1963.056	1964.056	1965.056	1966.056	1967.056	1968.056	1969.056	1970.056	1971.056	1972.1356	1973.1556	1974.1756	1975.056	1976.056	1977.2256	1978.056	1979.056	1980.2156	1981.1256	1982.1256	1983.1256	1984.1256	1985.1256	1986.1256	1987.1256	1988.1256	1989.1256	1990.1256
United States	1945.156	1946.256	1947.256	1948.256	1949.056	1950.056	1951.1556	1952.1556	1953.1156	1954.056	1955.1556	1956.1556	1957.2256	1958.7256	1959.056	1960.056	1961.10																													

CONCEPT 6



DATA ON TESTING IS REINCORPORATED BELOW WARHEAD DATA. COUNTRIES' TEST TOTALS AGAINST THEIR OWN HIGHS AND TEST TOTALS VS THE HIGHEST ANNUAL FIGURE FOR ANY COUNTRY ARE VISUALIZED AS RAW NUMBERS WITH COLOR VALUES INPUTED TO THE TEXT.