

## List of Binance coin listing announcements

- 1. skale-network (SKL) 2020-11-30 10:00
- 2. celo (CELO) 2021-01-05 04:36
- 3. gyen () 2021-05-12 03:00
- 4. arweave (AR) 2021-05-14 06:36
- 5. mask-network (MASK) 2021-05-25 05:10
- 6. livepeer (LPT) 2021-05-28 04:12
- 7. nucypher (NU) 2021-06-04 04:27
- 8. gitcoin (GTC) 2021-06-10 08:35
- 9. tornado-cash (TORN) 2021-06-11 04:32
- 10. keep-network (KEEP) 2021-06-17 04:34
- 11. klaytn (KLAY) 2021-06-24 05:42
- 12. barnbridge (BOND) 2021-07-05 04:05
- 13. enzyme (MLN) 2021-07-05 04:05
- 14. clover-finance (CLV) 2021-07-29 04:01
- 15. quant (QNT) 2021-07-29 04:01
- 16. flow (FLOW) 2021-07-30 09:00
- 17. mobox (MBOX) 2021-08-19 04:59
- 18. wax (WAXP) 2021-08-23 04:30
- 19. tribe (TRIBE) 2021-08-24 03:59
- 20. gnosis (GNO) 2021-08-30 04:01
- 21. list-gala (GALA) 2021-09-13 04:00
- 22. illuvium (ILV) 2021-09-22 05:26
- 23. bonfida (FIDA) 2021-09-30 04:29
- 24. radicle (RAD) 2021-10-07 05:24
- 25. superrare (RARE) 2021-10-11 04:03
- 26. moonriver (MOVR) 2021-11-08 02:59
- 27. benqi (QI) 2021-11-15 02:58
- 28. jasmycoin (JASMY) 2021-11-22 08:59

- 29. playdapp (PLA) 2021-11-23 02:59
- 30. amp (AMP) 2021-11-23 02:59
- 31. vulcan-forged-pyr (PYR) 2021-11-26 04:45
- 32. render (RNDR) 2021-11-27 06:57
- 33. alchemix (ALCX) 2021-11-30 02:59
- 34. merit-circle (MC) 2021-12-02 05:02
- 35. anyswap (ANY) 2021-12-04 03:01
- 36. biconomy (BICO) 2021-12-09 02:56
- 37. flux (FLUX) 2021-12-10 02:58
- 38. highstreet (HIGH) 2021-12-17 02:56
- 39. terrausd (UST) 2021-12-24 02:58
- 40. spell-token (SPELL) 2021-12-24 02:58
- 41. joe (JOE) 2021-12-28 05:56
- 42. api3 (API3) 2022-01-21 07:28
- 43. acala (ACA) 2022-01-25 03:02
- 44. anchor-protocol (ANC) 2022-01-25 05:52
- 45. kadena (KDA) 2022-03-11 06:17
- 46. apecoin (APE) 2022-03-17 08:02
- 47. nexo (NEXO) 2022-04-29 07:58
- 48. mobilecoin (MOB) 2022-04-29 07:58
- 49. optimism (OP) 2022-06-01 03:00
- 50. aptos (APT) 2022-10-18 03:04
- 51. neutron (NTRN) 2023-10-10 09:45
- 52. ordi (ORDI) 2023-11-07 07:44
- 53. blur (BLUR) 2023-11-24 07:09
- 54. jito (JTO) 2023-12-07 12:55
- 55. brc-20-sats (1000SATS) 2023-12-12 07:09
- 56. bonk (BONK) 2023-12-15 04:58
- 57. sleepless-ai (Al) 2024-01-08 09:30
- 58. xai (XAI) 2024-01-09 12:00
- 59. manta (MANTA) 2024-01-18 12:10

- 60. altlayer (ALT) 2024-01-25 12:10
- 61. jupiter (JUP) 2024-01-31 17:40
- 62. pyth-network (PYTH) 2024-02-02 14:20
- 63. ronin (RONIN) 2024-02-05 15:32
- 64. dymension (DYM) 2024-02-07 07:05
- 65. pixels (PIXEL) 2024-02-19 12:00
- 66. axelar (AXL) 2024-03-01 13:28
- 67. dogwifhat (WIF) 2024-03-05 16:20
- 68. metis (METIS) 2024-03-11 14:00
- 69. aevo (AEVO) 2024-03-13 11:55
- 70. saga (SAGA) 2024-04-09 10:41
- 71. omni-network (OMNI) 2024-04-17 14:40
- 72. renzo (REZ) 2024-04-30 14:32
- 73. notcoin (NOT) 2024-05-16 14:30
- 74. io-net (IO) 2024-06-11 14:30
- 75. zksync (ZK) 2024-06-17 12:30
- 76. layerzero (ZRO) 2024-06-20 15:30
- 77. gravity (G) 2024-07-19 10:30
- 78. banana-gun (BANANA) 2024-07-20 11:35
- 79. render (RENDER) 2024-07-26 10:30
- 80. toncoin (TON) 2024-08-08 12:30
- 81. eigen () 2024-09-30 10:19
- 82. lumia () 2024-10-18 10:30
- 83. thena (THE) 2024-11-27 10:30

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```

## Python-Code for pulling data from the Binance API

```
from binance.client import Client
import pandas as pd
# API key (if needed)

API_KEY = "your_api_key" # Replace with your API key
API SECRET = "your api secret" # Replace with your API secret
# Initialize Binance client
client = Client(API KEY, API SECRET)
# List of coins with their listing dates
coins = [
       {"symbol": "LUMIAUSDT", "listed_date": "2024-10-18 10:30"},
{"symbol": "EIGENUSDT", "listed_date": "2024-09-30 10:19"},
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def get_daily_data(symbol, start_date):
       111111
       Fetches daily kline (candlestick) data from Binance starting
from the listing date.
       :param symbol: The coin symbol, e.g., 'BTCUSDT'.
       :param start_date: Start date (in the format '1 Jan, 2021').
       :return: Pandas DataFrame with kline data.
       1111111
       try:
               # Fetch daily klines
               klines = client.get historical klines(
                      symbol=symbol,
                      interval=Client.KLINE_INTERVAL_1DAY,
                      start str=start date
               )
               # Convert to a DataFrame
               data = pd.DataFrame(klines, columns=[
                      "Open time", "Open", "High", "Low", "Close", "Volume",
```

```
"Close time", "Quote asset volume", "Number of
trades",
           "Taker buy base asset volume", "Taker buy quote asset
volume", "Ignore"
       # Convert timestamps
       data["Open time"] = pd.to datetime(data["Open time"].
unit='ms')
       data["Close time"] = pd.to datetime(data["Close time"],
unit='ms')
       # Clean data (keep only relevant columns)
       data = data[["Open time", "Open", "High", "Low", "Close",
"Volume"]]
        data.set index("Open time", inplace=True)
        return data
   except Exception as e:
       print(f"Error fetching data for {symbol}: {e}")
       return None
# Fetch data for all coins
for coin in coins:
   symbol = coin["symbol"]
   listed date = coin["listed date"]
    print(f"Fetching data for {symbol}, listing date:
{listed date}")
   data = get_daily_data(symbol, listed_date)
    if data is not None:
       # Save data as CSV
       filename = f"{symbol}_daily_data.csv"
       data.to csv(filename)
       print(f"Data for {symbol} saved in {filename}")
```

```
import os
import pandas as pd
# Path to the all coins folder on the Desktop
folder_path = os.path.expanduser("~/Desktop/all coins")
def check_csv_files(folder_path):
   # List for reports
    reports = []
    # Iterate through all CSV files in the folder
    for file in os.listdir(folder_path):
        if file.endswith(".csv"):
            file path = os.path.join(folder path, file)
            try:
                # Read the CSV file
                df = pd.read csv(file path)
                # Initialize the report
                report = {
                    "file": file,
"null_values": [],
                    "missing_values_rows": [],
                    "duplicate_dates": [],
                    "missing_dates": [],
                    "low_greater_than_high": [],
                    "high less than low": []
                # Check for null values in columns
                if df.isnull().values.any():
                    null cols =
df.columns[df.isnull().any()].tolist()
                    report["null values"] = null cols
                # Check for rows with missing values
                if df.isnull().any(axis=1).any():
                    missing_rows =
df[df.isnull().any(axis=1)].index.tolist()
                    report["missing_values_rows"] = missing_rows
                # Check for duplicate date values, if a "Date" or
'Time" column exists
                date_col = None
                for col in df.columns:
```

```
if "date" in col.lower() or "time" in
col.lower():
                        date_col = col
                        break
                if date col:
                    if df[date_col].duplicated().any():
                        duplicate dates =
df[df[date col].duplicated()][date col].tolist()
                        report["duplicate dates"] =
duplicate dates
                    # Check for missing data (gaps in timestamps)
                    df[date col] = pd.to datetime(df[date col])
                   df = df.sort_values(by=date_col)
                    full range =
pd.date_range(start=df[date_col].min(), end=df[date_col].max(),
freq="D")
                   missing dates =
full range.difference(df[date_col])
                    report["missing dates"] =
missing dates.strftime('%Y-%m-%d').tolist()
                # Check for low values greater than high values
                if "low" in df.columns and "high" in df.columns:
                    low greater = df[df["low"] > df["high"]]
                    if not low greater.empty:
                        report["low_greater than high"] =
low greater.index.tolist()
                # Check for high values less than low values
                if "low" in df.columns and "high" in df.columns:
                    high less = df[df["high"] < df["low"]]
                    if not high_less.empty:
                        report["high less than low"] =
high less.index.tolist()
                reports.append(report)
            except Exception as e:
                print(f"Error processing file {file}: {e}")
   # Output the reports
    for report in reports:
       print(f"Report for file: {report['file']}")
       print(f" Null values in columns:
{report['null_values']}")
        print(f" Missing values in rows (indices):
{report['missing values rows']}")
        print(f" Duplicate date values:
{report['duplicate dates']}")
       print(f" Missing data: {report['missing dates']}")
```

```
import os
import pandas as pd
def analyze_csv_files(folder_path):
    Analyzes all CSV files in a folder and calculates whether the
stock price
    has risen or fallen based on the 'Close' value.
    Outputs a summary of the rising and falling prices at the end.
    .....
    # Ensure the folder exists
    if not os.path.exists(folder_path):
        print(f"The folder {folder path} does not exist.")
        return
    # List all CSV files in the folder
    csv_files = [file for file in os.listdir(folder_path) if
file.endswith('.csv')]
    if not csv_files:
        print("No CSV files found in the specified folder.")
        return
    # Counters for rising and falling prices
    risen count = 0
    fallen count = 0
    for csv file in csv files:
        file_path = os.path.join(folder_path, csv_file)
        print(f"Analyzing file: {csv file}")
        # Load the CSV file
        try:
            df = pd.read_csv(file_path)
            # Check if the 'Close' column exists
            if 'Close' not in df.columns:
                print(f"The file {csv_file} does not contain a
'Close' column. Skipping.")
                continue
            # Calculate the price change
            first_close = df['Close'].iloc[0]
            last close = df['Close'].iloc[-1]
            percent change = ((last close - first close) /
first close) * 100
```

```
# Determine status
             if percent change > 0:
                 risen_count += 1
print(f"{csv_file}: Risen ({percent_change:.2f})
%)")
             else:
                 fallen_count += 1
                 print(f"{csv_file}: Fallen ({percent_change:.2f}
%)")
        except Exception as e:
          print(f"Error processing the file {csv_file}: {e}")
    # Display summary
    print("\nSummary:")
    print(f"Rising prices: {risen_count}")
    print(f"Falling prices: {fallen count}")
# Main function
if __name__ == "__main__":
folder_path = "all_coins" # Change this to the path of your
folder containing the CSV files
   analyze_csv_files(folder_path)
```

```
import os
import pandas as pd
from datetime import datetime
def analyze total average change(folder path):
    1111111
    Analyzes all CSV files in a folder and calculates the average
percentage change
    for all coins based on the 'Close' value. It uses the first
and last available
   days in each file.
    Outputs the overall average percentage change.
    # Ensure the folder exists
    if not os.path.exists(folder_path):
        print(f"The folder {folder path} does not exist.")
        return
    # List all CSV files in the folder
    csv files = [file for file in os.listdir(folder path) if
file.endswith('.csv')]
    if not csv_files:
        print("No CSV files found in the specified folder.")
        return
    # List to store percentage changes
    percent changes = []
    for csv file in csv files:
        file path = os.path.join(folder_path, csv_file)
        print(f"Analyzing file: {csv file}")
        # Load the CSV file
        try:
            df = pd.read_csv(file_path)
            # Check if the required columns exist
            if 'Open time' not in df.columns or 'Close' not in
df.columns:
                print(f"The file {csv_file} does not contain the
required columns 'Open time' or 'Close'. Skipping.")
               continue
            # Convert 'Open time' to datetime format
            df['Open time'] = pd.to datetime(df['Open time'],
errors='coerce')
```

```
# Sort data by date
           df = df.sort_values(by='Open
time').dropna(subset=['Open time'])
           # Ensure the file is not empty
           if df.empty or len(df) < 2:</pre>
                print(f"The file {csv_file} does not have enough
data. Skipping.")
               continue
           # Find the first and last 'Close' values
           first_close = df['Close'].iloc[0]
           last close = df['Close'].iloc[-1]
            if first close == 0: # Avoid division by zero
                print(f"The file {csv_file} has a 'Close' value of
0 at the start. Skipping.")
               continue
           # Calculate percentage change
           percent_change = ((last_close - first_close) /
first_close) * 100
          percent changes.append(percent change)
        except Exception as e:
           print(f"Error processing the file {csv file}: {e}")
    # Calculate the average
    if percent changes:
        average_change = sum(percent_changes) /
len(percent_changes)
        print("\n0verall average percentage change:")
       print(f"{average_change:.2f}%")
    else:
       print("No valid data found for calculation.")
# Main function
if name == " main ":
    folder_path = "all_coins" # Change this to the path of your
folder containing the CSV files
   analyze total average change(folder path)
```

## Python-Code to calculate the average percentage drop of all coins since day 1 (excluding the following coins: first date is younger than 12 months)

```
import os
import pandas as pd
from datetime import datetime, timedelta
def analyze_total_average_change(folder_path):
    Analyzes all CSV files in a folder and calculates the average
percentage change
    for all coins based on the 'Close' value. Only includes data
at least 12 months old.
    Outputs the overall average percentage change.
    1111111
    # Ensure the folder exists
    if not os.path.exists(folder_path):
        print(f"The folder {folder path} does not exist.")
        return
    # List all CSV files in the folder
    csv files = [file for file in os.listdir(folder path)
file.endswith('.csv')]
    if not csv files:
        print("No CSV files found in the specified folder.")
        return
    # List to store percentage changes
    percent changes = []
    # Define the cutoff date (12 months ago from today)
    cutoff date = datetime.now() - timedelta(days=365)
    for csv_file in csv_files:
        file_path = os.path.join(folder_path, csv_file)
        print(f"Analyzing file: {csv file}")
        # Load the CSV file
        try:
            df = pd.read_csv(file_path)
            # Check if the required columns exist
            if 'Open time' not in df.columns or 'Close' not in
df.columns:
                print(f"The file {csv_file} does not contain the
required columns 'Open time' or 'Close'. Skipping.")
                continue
           # Convert 'Open time' to datetime format
```

```
df['Open time'] = pd.to_datetime(df['Open time'],
errors='coerce')
            # Filter rows with valid dates
            df = df.dropna(subset=['Open time'])
            # Filter data older than 12 months
            df = df[df['Open time'] <= cutoff date]</pre>
            # Sort data by date
            df = df.sort values(by='Open time')
            # Ensure the file has enough data
            if df.empty or len(df) < 2:</pre>
                print(f"The file {csv file} does not have enough
data older than 12 months. Skipping.")
            continue
            # Find the first and last 'Close' values
            first_close = df['Close'].iloc[0]
            last_close = df['Close'].iloc[-1]
            if first close == 0: # Avoid division by zero
                print(f"The file {csv_file} has a 'Close' value of
0 at the start. Skipping.")
               continue
            # Calculate percentage change
            percent change = ((last close - first close) /
first close) * 100
          percent changes.append(percent change)
        except Exception as e:
           print(f"Error processing the file {csv file}: {e}")
    # Calculate the average
    if percent_changes:
        average_change = sum(percent_changes) /
len(percent_changes)
        print("\n0verall average percentage change:")
        print(f"{average change:.2f}%")
    else:
       print("No valid data found for calculation.")
# Main function
if <u>__name__</u> == "__main__":
    folder_path = "all_coins" # Change this to the path of your
folder containing the CSV files
 analyze total average change(folder path)
```

```
import matplotlib.pyplot as plt
import matplotlib.colors as mcolors
import pandas as pd
import glob
import os
import numpy as np
# Pfade anpassen
desktop path = os.path.expanduser("~/Desktop")
csv_folder_path = os.path.join(desktop_path, "all_coins")
visuals folder path = os.path.join(desktop path, "visuals")
# Sicherstellen, dass der Visualisierungsordner existiert
os.makedirs(visuals folder path, exist ok=True)
# Konstanten
num days = 18  # Nur die ersten 18 Tage
# Liste für prozentuale Veränderungen
percentage changes = []
# Alle CSV-Dateien im Ordner suchen
csv files = glob.glob(os.path.join(csv folder path, "*.csv"))
# Berechnung der prozentualen Veränderungen
for day in range(num days):
   daily_changes = []
    for file in csv_files:
        df = pd.read csv(file)
        if len(df) > day: # Prüfen, ob der Tag im Datensatz
existiert
          start price = df["Close"].iloc[0] # Startpreis des
Coins
           if start price > 0: # Vermeidung von Division durch
Null
                current_price = df["Close"].iloc[day]
                percentage_change = ((current_price - start_price)
 start price) * 100 # Prozentuale Veränderung
                daily_changes.append(percentage_change)
    if daily_changes:
        percentage changes.append(np.mean(daily changes)) #
Durchschnitt der prozentualen Veränderungen
    else:
       percentage changes.append(None)
# Plot erstellen
fig, ax = plt.subplots(figsize=(14, 7))
# Hintergrundfarbe setzen (schwarz)
```

```
fig.patch.set facecolor("black")
ax.set facecolor("black")
 Y-Achsenbereich berechnen
y min = min([val for val in percentage changes if val is not
Nonel) * 1.1
y max = max([val for val in percentage changes if val is not
None]) * 1.1
ax.set_xlim(0, len(percentage_changes))
ax.set ylim(y min, y max)
# Farbverlauf für die Linie (Rosa -> Orange -> Gelb)
colors = ["magenta", "orange", "yellow"]
cmap = mcolors.LinearSegmentedColormap.from list("gradient",
colors, N=len(percentage changes))
line colors = cmap(np.linspace(0, 1, len(percentage changes)))
# Zeichne die Linie mit dem Farbverlauf
for i in range(len(percentage changes) - 1):
   if percentage_changes[i] is not None and percentage_changes[i
+ 1] is not None:
        ax.plot(
            [i, i + 1],
            [percentage_changes[i], percentage_changes[i + 1]],
            color=line colors[i],
            linewidth=3,
            zorder=1,
# Titel und Achsenbeschriftungen
title_font = {"fontsize": 16, "color": "white"}
label_font = {"fontsize": 14, "color": "lightgray"}
ax.set title("Average Percentage Change Over First 18 Days",
**title_font, pad=20)
ax.set_xlabel("Days Since Listing", **label_font, labelpad=15)
ax.set_ylabel("Average Percentage Change (%)", **label font,
labelpad=15)
# Achsen-Ticks in heller Farbe setzen
ax.tick params(colors="lightgray")
# Rahmen entfernen, um den Hintergrundbildlook zu bewahren
ax.spines["top"].set_visible(False)
ax.spines["right"].set visible(False)
ax.spines["left"].set_visible(False)
ax.spines["bottom"].set visible(False)
# Layout anpassen und speichern
plt.tight layout()
output path = os.path.join(visuals folder path,
"chart without leverage.png")
```

```
plt.savefig(output_path, dpi=300, bbox_inches="tight",
transparent=True)
plt.close()
```

print(f"The chart without leverage has been saved in the 'visuals'
folder: {output\_path}")

```
import pandas as pd
import matplotlib.pyplot as plt
from pathlib import Path
# Pfade und Einstellungen
desktop_path = Path.home() / "Desktop"
input dir = desktop path / "all coins" # Ordner für die CSV-
Dateien
output dir = desktop path / "visuals" # Ordner für die
Visualisierungen
output dir.mkdir(exist ok=True) # Erstelle den "visuals"-Ordner.
falls er nicht existiert
# Alle CSV-Dateien im Ordner "all_coins"
file paths = list(input dir.glob("*.csv"))
if not file paths:
    print("Keine CSV-Dateien im Ordner 'all coins' gefunden.")
else:
   # Verarbeite jede Datei
    for file_path in file_paths:
        try:
            # CSV-Datei laden
            df = pd.read csv(file path)
            # Stelle sicher, dass die Spalte 'Open time' im
Datetime—Format vorliegt
            if 'Open time' in df.columns:
                df['Open time'] = pd.to_datetime(df['Open time']
# Konvertiere in Datetime-Format
df = df.rename(columns={'Open time': 'Date'}) #
Standardisiere auf 'Date'
            else:
                print(f"'Open time'-Spalte nicht in {file path}
gefunden. Überspringe die Datei.")
               continue
            # Nach Datum sortieren
            df = df.sort_values(by='Date')
            # Dateiname für die Grafik
            base_name = file_path.stem
            plot file = output dir / f"{base name} trend plot.png"
            # Schlusskurse plotten
            if 'Close' in df.columns:
              plt.figure(figsize=(10, 6))
```

```
plt.plot(df['Date'], df['Close'], marker='o',
linestyle='-', label='Close Price')
    plt.title(f"Trend Over Time - {base_name}")
                plt.xlabel("Date")
                plt.ylabel("Close Price")
                plt.grid()
                plt.legend()
                plt.savefig(plot_file)
                plt.close()
                print(f"Trend-Grafik gespeichert für {base_name}:
{plot file}")
            else:
                print(f"'Close'-Spalte nicht in {file_path}
gefunden. Überspringe die Datei.")
        except Exception as e:
          print(f"Fehler beim Verarbeiten der Datei {file_path}:
{e}")
```

```
import pandas as pd
import matplotlib.pyplot as plt
from pathlib import Path
# Paths and settings
desktop_path = Path.home() / "Desktop"
input_dir = desktop_path / "all_coins" # Folder containing the
CSV files (changed to "all_coins")
output_dir = desktop_path / "visuals" # Folder for the
visualizations
output dir.mkdir(exist ok=True) # Create the "visuals" folder if
it doesn't exist
# All CSV files in the "all coins" folder
file paths = list(input dir.glob("*.csv"))
# Remove OMNI files from the list
file paths = [file for file in file paths if "OMNI" not in
file steml
# Check if files exist
if not file paths:
    print("No suitable CSV files found in the 'all coins'
folder.")
else:
    # Initialize the plot
    plt.figure(figsize=(12, 8))
    processed files = 0 # Counter for successfully processed
files
    for file_path in file_paths:
        try:
            # Log the current file being processed
            print(f"Processing file: {file_path.stem}")
            # Load the CSV file
            df = pd.read csv(file path)
            # Ensure the 'Date' column is in datetime format
            if 'Date' in df.columns:
            df['Date'] = pd.to_datetime(df['Date'])
elif 'Open time' in df.columns: # Handle "Open time"
column if present instead of "Date"
                 df['Date'] = pd.to_datetime(df['Open time'])
            else:
                 print(f"'Date' or 'Open time' column not found in
{file path}. Skipping this file.")
```

```
continue
            # Sort by date
            df = df.sort values(by='Date')
            # Calculate days since the start
            df['days since start'] = (df['Date'] -
df['Date'].iloc[0]).dt.days
            # Curve name (filename without extension)
             curve name = file path.stem
            # Plot close prices
            if 'Close' in df.columns:
                 plt.plot(df['days_since_start'], df['Close'],
marker='o', linestyle='-', label=curve_name, alpha=0.8)
                 processed files += 1 # Increment the counter
            else:
                 print(f"'Close' column not found in {file path}.
Skipping this file.")
        except Exception as e:
            print(f"Error processing file {file path}: {e}")
    # Customize the plot
plt.title("Trend Over Time (Days Since Start) - All Curves
(Excl. OMNI)", fontsize=16)
    plt.xlabel("Days Since Listing", fontsize=12)
    plt.ylabel("Close Price", fontsize=12)
    plt.grid()
    plt.legend(title="Assets", loc="upper left", fontsize=10)
    # Save the combined plot
    combined_plot_file = output dir /
"combined trend plot excl_OMNI.png"
    plt.savefig(combined plot file)
    plt.show() # Optional: Display the plot directly
    print(f"Combined plot saved: {combined_plot_file}")
print(f"Successfully plotted {processed_files} files.")
```

## **Binomial testing**

```
from scipy stats import binomtest
def binomial_test_greater_than_50(successes, trials):
    # Null hypothesis: p <= 0.5
   # Alternative hypothesis: p > 0.5
    p value = binomtest(successes, trials, p=0.5,
alternative='greater').pvalue
 return p value
  name__ == "__main__":
    # Example values: number of successes and trials
    successes = 30
    trials = 50
    # Calculate the p-value
   p_value = binomial_test_greater_than_50(successes, trials)
    print(f"The p-value of the test is: {p value}")
   # Interpretation
    alpha = 0.05
    if p value < alpha:</pre>
        print("The result is statistically significant. The
probability of success is likely greater than 50%.")
    else:
        print("The result is not statistically significant. We
cannot conclude that the probability of success is greater than
```