API Documentation Version 1.20

All API requests work via a **key/value** list passed to a python script. Values must be passed via the GET method (appended to the end of the URL). All query results are returned as JSON.

How to look up Basket Trade Signals:

General Case:
`http://empirasign.com/api/basket/?ticker=xyz&h=[1:3]&n=[1:25]&api_key=ABC123`

Example URL:
`http://empirasign.com/api/basket/?ticker=CSCO&d=20100518&api_key=ABC123`

Given a valid api_key, the above request will return JSON as shown below:


```
[
    {
        " y_intercept": "4.9637",
        "calc_time": "2010-05-18 16:00:00",
        "hedge1": "PPG",
        "hedge2": "None",
        "hedge3": "None",
        "hr_1": "0.314867",
        "hr_2": "None",
        "hr_3": "None",
        "pid": "",
        "rich_cheap": "-1.26843",
        "rsquared": "0.961075",
        "ticker": "CSCO",
        "zscore": "-2.68215"
    },
    {
        " y_intercept": "3.27905",
        "calc_time": "2010-05-18 16:00:00",
        "hedge1": "BRCM",
        "hedge2": "PPG",
        "hedge3": "None",
        "hr_1": "0.208931",
        "hr_2": "0.237238",
        "hr_3": "None",
        "pid": "",
        "rich_cheap": "-1.18312",
        "rsquared": "0.973069",
        "ticker": "CSCO",
        "zscore": "-3.01378"
    }
]
```


Key Definitions:
`ticker = [xyz]` Search for basket trades with **xyz** as the lead ticker
`aticker = [xyz]` Search for basket trades where **xyz** is either the lead ticker or a member of the

hedge basket. Use when you want to see any trade involving ticker **xyz**.
`n = [1:25]` show most recent values based on live intra-day prices **(subscription required)**
`api_key = abcdef` six letter code used to access live and historical data **(contact us for complementary limited use api_key)**
`h = [1:3]` number of components to the hedge basket
`d = YYYYMMDD` search based on closing prices for a single date
`d0=YYYYMMDD&d1=YYYYMMDD` search based on closing prices for a date range. d0 = start date, d1 = end date
`csv=[TRUE/FAlSE]` if set to **TRUE**, output will be in comma separated values format, if **FALSE** or omitted, output will be in JSON format

How to search for Eurodollar Combo Prices:

The general case:
`http://empirasign.com/api/combo/(combo_type)/?ticker=[ED##]&combo=[xyz]&n=[1:25]&api_key=abc`

Example URL:
`http://www.empirasign.com/api/combo/condor/?ticker=edz1&d0=20110726&d1=20110729&api_key=ABC123`

The above request will return JSON as shown below:


```
[
    {
        "calc_time": "2011-07-28 15:00:00",
        "kind": "condor",
        "last": "-0.025",
        "previous": "-0.035",
        "ticker": "EDZ1",
        "z100": "2.4616",
        "z200": "1.2167",
        "z50": "1.8852"
    },
    {
        "calc_time": "2011-07-27 15:00:00",
        "kind": "condor",
        "last": "-0.035",
        "previous": "-0.04",
        "ticker": "EDZ1",
        "z100": "2.291",
        "z200": "1.0012",
        "z50": "1.7111"
    },
    {
        "calc_time": "2011-07-26 15:00:00",
        "kind": "condor",
        "last": "-0.04",
        "previous": "-0.055",
        "ticker": "EDZ1",
        "z100": "2.2334",
        "z200": "0.8916",
        "z50": "1.654"
    }
]
```

Key Definitions:
`ticker = ED(H,M,U,Z)[0-9]` All quarterly expiry eurodollar contracts are available. The ticker selected signifies the nearest to expiry contract in a combination. e.g. `ticker=EHU0&combo=fly`, the search is run on the EDU0/EDZ0/EDH1 butteryfly.
`combo = any one of the following: fly,condor,fly6m,fly12m,fly2,condor2,dd3m,dd6m` see further definitions below. If this term is left blank, or not entered, all combo's will be returned in the search results.
`n = [1:25]` show most recent values based on live intra-day prices
`api_key = abcdef` six letter code used to access live and historical data **(contact us for complementary limited use api_key)**
`d = YYYYMMDD` search based on closing prices for a single date
`d0=YYYYMMDD&d1=YYYYMMDD` search based on closing prices for a date range. d0 = start date, d1 = end date
`csv=[TRUE/FAlSE]` if set to **TRUE**, output will be in comma separated values format, if **FALSE** or omitted, output will be in JSON format

Eurodollar Combinations:
`fly`: standard butteryfly
`condor`: standard condor
`fly6m`: 6 month butterfly
`fly12m`: 12 month butterfly
`condor2`: double condor
`fly2`: double butterfly
`dd3m`: 3 month double/double
`dd6m`: 6 month double/double

How to search the Twitter News Feed:

General Case:
`http://empirasign.com/api/firehose.php?ticker=[xyz]&event=[xyz]&n=[1:25]&feed=[XX]`

Example URL (no api_key required):
`http://empirasign.com/api/firehose/?ticker=goog&d=20110707`

Output shown below in JSON format:


```
[
    {
        "content": "$GOOG (Google Inc) $547.64 crossed its Upper Bollinger Band",
        "event": "bb",
        "feed": "empirasign_eq",
        "ticker": "GOOG",
        "time_stamp": "2011-07-07 13:32:35",
        "url": "http://empirasign.com/s/2729"
    }
]
```

`ticker = [xyz]` Search for tweets about ticker **xyz**
`n = [1:25]` show **n** most recent tweets for specific search. If omitted, **n** defaults to 1
`event = [bb,fib,hl3m,hl52,ma200,ma50,piv,or sr]` Search for specific event type, definitions below
`feed = [fx,eq,eu,ap]` Search for tweets from one of four feeds (@empirasign_fx, @empirasign_eq, @empirasign_eu, and @empirasign_ap)
`d = YYYYMMDD` search for tweets on a specific date
`d0=YYYYMMDD&d1=YYYYMMDD` search for tweets over a date range. d0 = start date, d1 = end date
`csv=[TRUE/FAlSE]` if set to **TRUE**, output will be in comma separated values format, if **FALSE** or omitted, output will be in JSON format

Twitter Event Types:
`bb:` ticker is trading through a bollinger band
`fib:` ticker has breached a fibonnacci retracement level
`hl3m:` new 3 month hi or low
`hl52:` new 52 week hi or low
`ma50:` ticker has crossed 50 or 200 day moving average
`ma200:` ticker has crossed 50 or 200 day moving average
`sr:` ticker has breached keys support or resistance line