

# DERIVATIVES UNCHAINED

Hacker: Ivan Molto

uous

00500

rejected

**BTCUSD Monthly (30 Jun 2021)**

**product: future**  
**trading mode: continuous**

maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001

base:btc    quote:usd    class:fx/crypto    monthly  
  
sector:crypto

active

**ETHBTC Quarterly (30 Jun 2022)**

**product: future**  
**trading mode: continuous**

maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001

base:eth    quote:btc    class:fx/c  
  
sector:crypto

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rejected

**AAVEDAI Monthly (30 Jun 2021)**

**product: future**  
**trading mode: continuous**

maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001

base:aave    quote:dai    class:fx/crypto    monthly  
  
sector:defi

active

**UNIDAI Monthly (30 Jun 2021)**

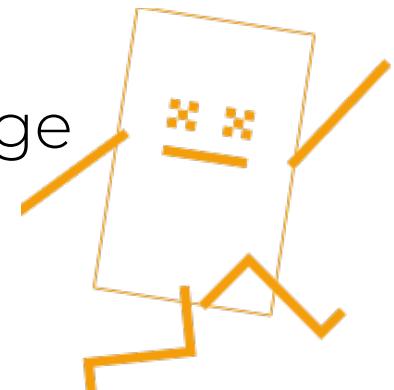
**product: future**  
**trading mode: continuous**

maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001

!

Vega.xyz Medium Challenge

Encode Hack The System  
May 2021



# Approach to Vega Challenge



## FRONTEND

A fast and enhanced web and mobile web app built with Vue 3 and making use of the Vega GraphQL API via queries and subscriptions.



## FRESH VALUABLE DATA

Showcased Markets, Assets, Parties and Statistics. Streamed data for recent Trades and Orders.



## TECH STACK

Used Vue 3 with Composition API, Vue Router, GraphQL, Apollo client, and Tailwindcss. Some images are decentralized stored on Arweave.



## LIVE DEMO AND REPO

<https://derivatives-unchained.netlify.app>

<https://github.com/ivanmolto/derivatives-unchained>

# Funny Facts



9

Markets



+100

Parties



10

Assets

## DERIVATIVES UNCHAINED

# A little bit of



### Highlights

- Query and stream data ranging from markets to recent trades
- Clean, responsive and modern layout
- Data endpoints from Vega API <https://docs.fairground.vega.xyz/docs/apis>

#### Totals

Total amend order: 0  
Total cancel order: 95  
Total create order: 33749477  
Total lots: 11  
Total orders: 33749477  
Total price: 366203

30 Jun 2021

#### mode: continuous

maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001

base:btc quote:usd class:fx/crypto monthly sector:crypto

#### Tree/GBP/April21

product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.01

base:xxx quote:xyzalpha

monthly (30 Jun 2021)

#### mode: continuous

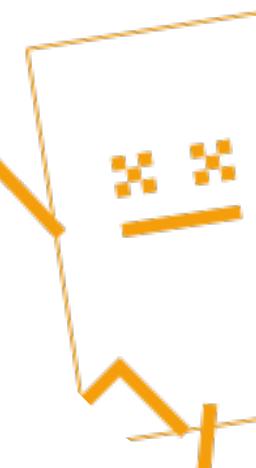
~500

#### SDC

Supply: 35655700000000000  
Decimals: 5  
Balance: 582209275283  
Type: FeeInfrastructure

#### EURO (test)

symbol: tEURO  
total supply: 35593900000000000  
decimals: 5  
balance: 149312014251  
type: FeeInfrastructure



#### gamma

Zgamma  
1000000000

Built

# Web Application

The screenshot displays the 'All Markets' section of the web application. At the top right, there is a navigation bar with tabs: Markets (which is active), Trades, Orders, Assets, Parties, and Stats. Below the navigation bar, the title 'All Markets' is centered. The page lists several market products in a grid format:

- BTCUSD Monthly (30 Jun 2021)**  
product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001  
Tags: base:btc, quote:usd, class:fx/crypto, monthly, sector:crypto
- ETHBTC Quarterly (30 Jun 2021)**  
product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001  
Tags: base:eth, quote:btc, class:fx/crypto, quarterly, sector:crypto
- AAVEDAI Monthly (30 Jun 2021)**  
product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001  
Tags: base:aave, quote:dai, class:fx/crypto, monthly, sector:defi
- UNIDAI Monthly (30 Jun 2021)**  
product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001  
Tags: base:uni, quote:dai, class:fx/crypto, monthly, sector:defi
- Apple Monthly (30 Jun 2021)**  
product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001  
Tags: base:apple, quote:usd, class:fx/crypto, monthly, sector:equity
- Tesla Quarterly (30 Jun 2021)**  
product: future  
trading mode: continuous  
maker fee: 0.000200  
infrastructure fee: 0.000500  
liquidity fee: 0.001  
Tags: base:tesla, quote:usd, class:fx/crypto, quarterly, sector:equity

# Mobile Web Application

**Data To Boost Your Derivatives Trading**

**All Markets**

**Recent Trades**

**Recent Orders**

**All Statistics**

**CHAIN\_STATUS\_CONNECTED**

**General**

App version: v0.35.4  
Chain version: 0.33.8  
Block height: 63939  
Tx per block: 54  
Average orders per block: 62  
Total peers: 8

**Time**

Orders per second: 70  
Trades per second: 47  
Current Time: 2021-05-05T05:26:50.830568361Z  
Genesis Time: 2021-05-04T14:48:10Z  
Up time: 2021-05-



Ivan Molto

## About Me

Software & Blockchain Engineer with + 20 years experience in the Gaming, Media, and Music industries

Built Android/iOS apps and games hitting +100 million installs

Proud to be part of the first ringtones ever created

Veteran hacker

More at <https://linkedin.com/in/ivanmolto>

Thank you