SUN ZU Lab

Weekly Insight
April 2021

Timezone: UTC
Period: 2021-04-16 ~ 2021-04-23

About SUN ZU Lab

SUN ZU Lab is a leading independent provider of liquidity analysis for investors already active or crypto-curious. We provide quantitative research on liquidity of all digital assets to help investors improve their execution strategies and source the highest level of liquidity at the lowest cost.

Our product line includes research reports, software tools and bespoke developments to fulfill the needs of the most demanding digital investor.

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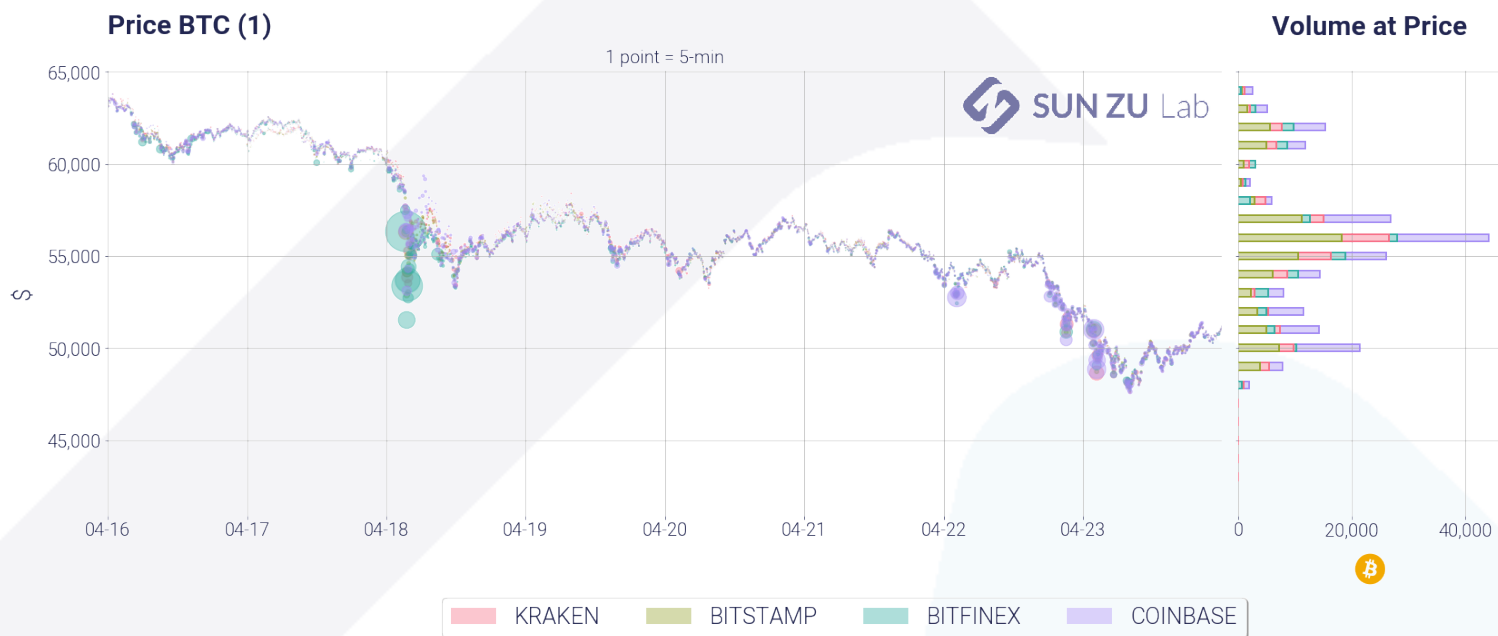
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No Investment Advice

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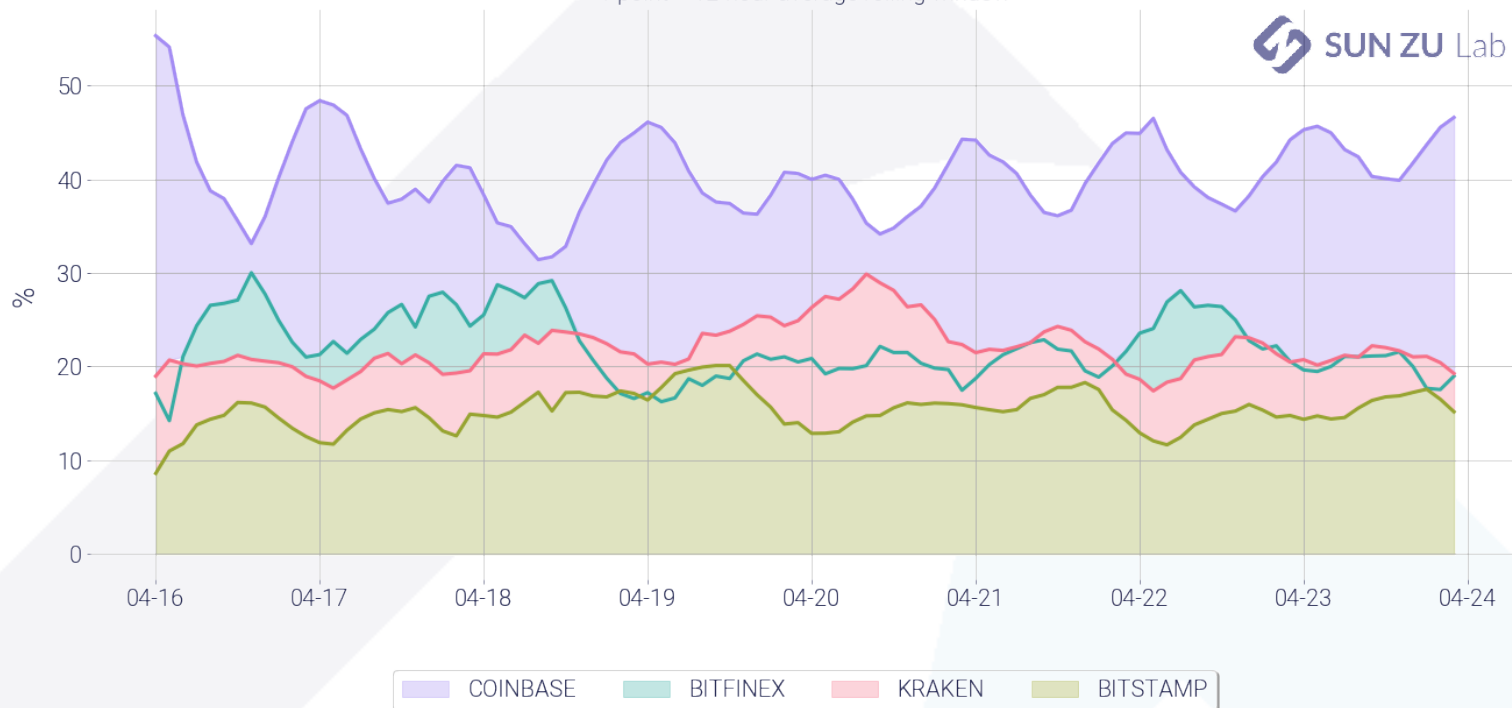
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Price BTC (1)

1 point = 5-min

Volume at Price

Price ETH (1)

1 point = 5-min
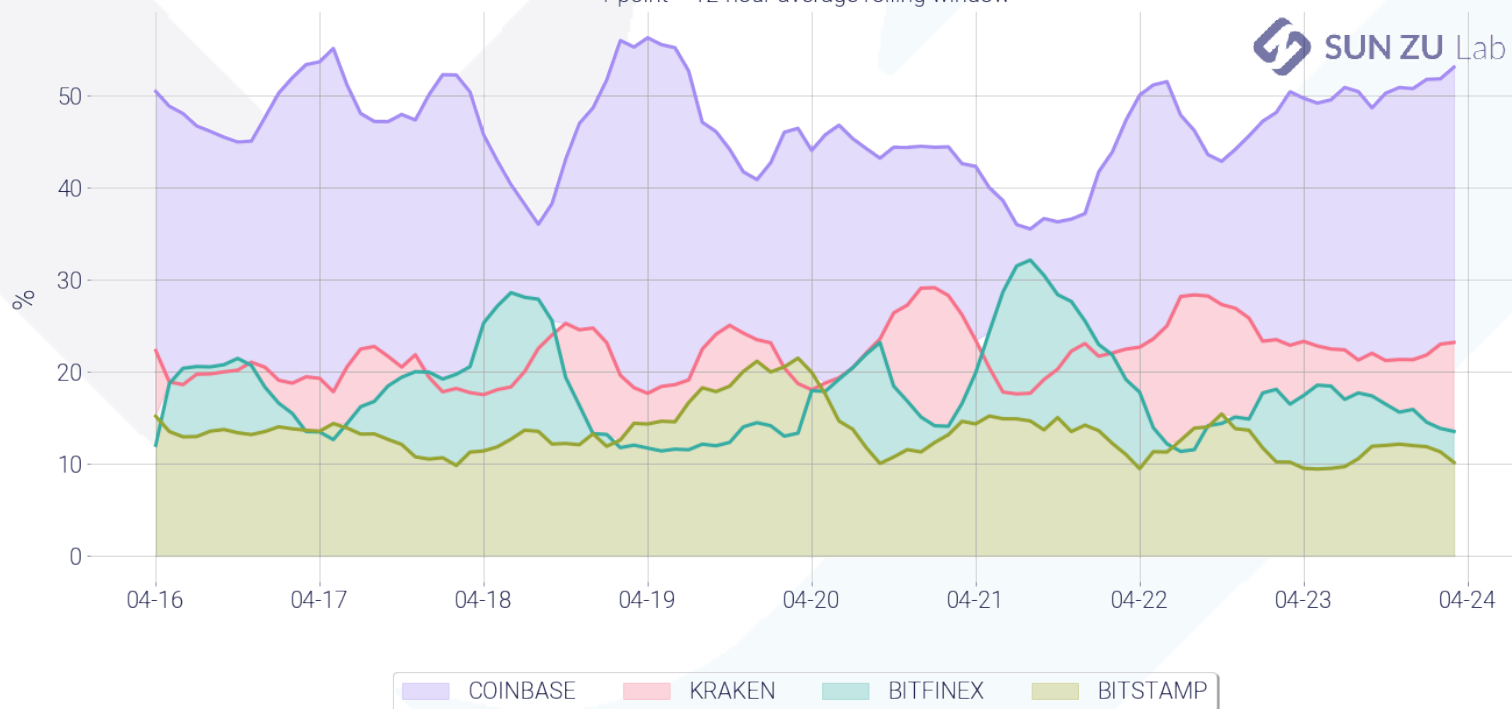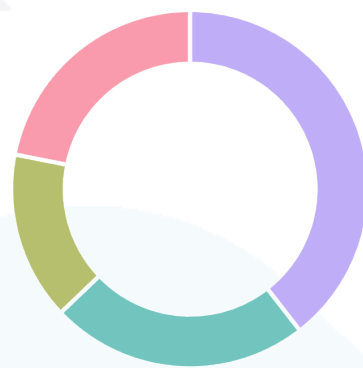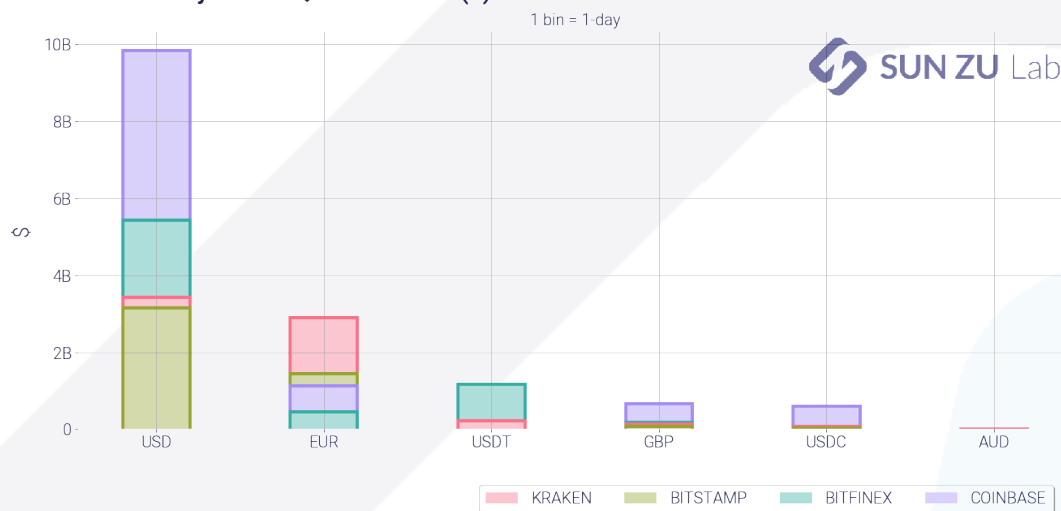

Volume at Price

KRAKEN   BITSTAMP   BITFINEX   COINBASE

Turnover Repartition by Exchange BTC (2)

1 point = 12-hour average rolling window

| COINBASE | BITFINEX | KRAKEN | BITSTAMP |

Turnover Repartition by Exchange ETH (2)

1 point = 12-hour average rolling window

| COINBASE | KRAKEN | BITFINEX | BITSTAMP |

Turnover by Unit of Quotation BTC (3)

1 bin = 1-day

	KRAKEN	BITSTAMP	BITFINEX	COINBASE

Turnover by Unit of Quotation ETH (3)

1 bin = 1-day

	KRAKEN	BITSTAMP	BITFINEX	COINBASE
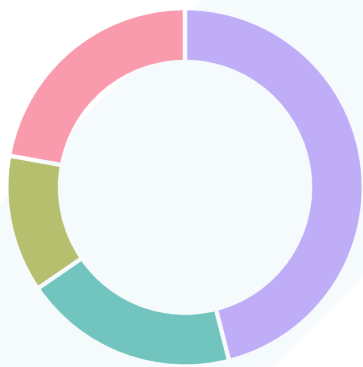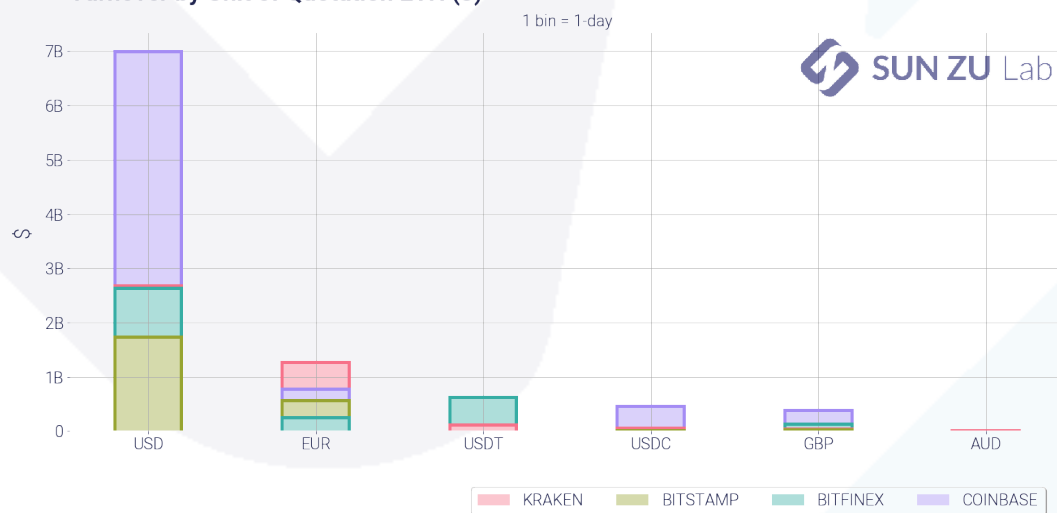
Fragmentation Efficiency Index (4)

1 point = 2-hour fragmentation index

Legend: BTC, ETH
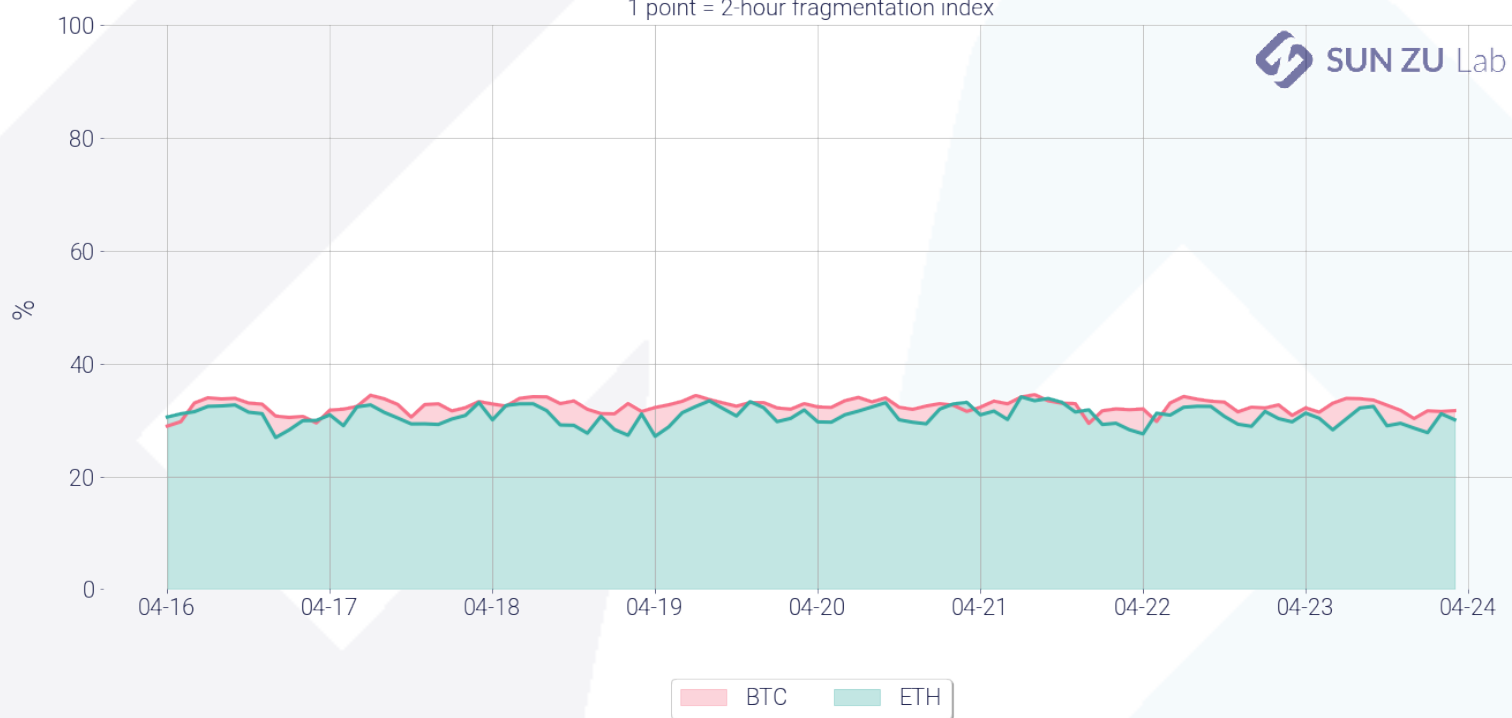
⊚ Price & Volume at Price (1)

This graph presents a 5' time series of the instrument price on each of the selected venues.
Each point is a disc, the diameter of which is proportional to the volume at the last traded price.
The chart will highlight exchanges where average trade size is the largest.
NB: bars are cumulative, that is each bar is stacked on top of the others.

⊚ Turnover Repartition by Exchange (2)

This chart presents the repartition of turnover (volume*price) across different venues.
The data is charted on a 12-hour rolling window to improve readibility.

⊚ Turnover by Unit of Quotation (3)

This chart shows total turnover by unit of quotation (fiat and digital), across different venues.
The pie chart on the right illustrates the aggregate partition across venues.

⊚ Fragmentation Efficiency Index (4)

This chart presents the 2-hour fragmentation efficiency index (FEI) as discussed in
'Market Microstructure in Practice' (LeHalle & Laruelle, World Scientific 2013).
It is calculated as: $- SUM(q_i * ln(q_i)) / \log N$, where N = number of venues,
q_i = market share of the i-th venue (such that $SUM(q_i) = 1$). The FEI is an indicator that
varies between 0 and 1: it is close to 0 if liquidity is fragmented and highly concentrated
on a small number of venues, and close to 1 if on the contrary it is spread almost evenly
across all venues.