# **OVERVIEW**

- 1 Introduction
- 2 METHODOLOGY
- 3 DATA
- 4 RESULTS
- 5 FONTS AND LAYOUT
- 6 LISTS AND ENUMERATION
- **7** Colors
- 8 FRAME NUMBERS

# Introduction



## **MOTIVATION**

## Is technical analysis profitable in bitcoin markets?

- 1 Why bitcoin?
- Why technical analysis?

## WHY BITCOIN?

#### Bitcoin

- Introduced in 2008 (Nakamoto, 2008)
- Electronic payment system based on cryptographic proof instead of trust
- No need for third parties
- instantaneous, low cost, anonymous worldwide payments

#### WHY BITCOIN?

#### Total Market Capitalization

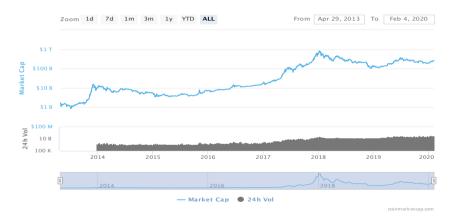


Figure: Total market capitalization and 24h trade volume of the cryptocurrency market over time.

Source: https://coinmarketcap.com/charts/

## WHY BITCOIN?

#### Percentage of Total Market Capitalization (Dominance)



Figure: % of total market capitalization of the cryptocurrency market over time.

Source: https://coinmarketcap.com/charts/

# WHY TECHNICAL ANALYSIS?

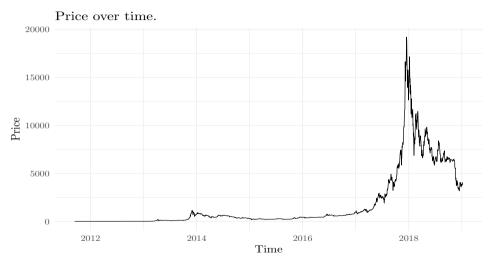


Figure: Price of bitcoin over time.

## WHY TECHNICAL ANALYSIS?

## Technical analysis

Using past prices in order to predict future returns.

- Requires inefficient markets
- Contested by academics, popular with professionals (especially FX)

# METHODOLOGY



# **DATA**



# **RESULTS**



# FONTS AND LAYOUT



# THIS IS THE FRAME TITLE WITH OPTIONAL FRAME SUBTITLE

Regular text in the body of the slide is black and rendered in Helvetica sans-serif.

Helvetica has no corresponding math font. Therefore, equations are typeset in Computer Modern sans-serif and are also displayed in plain black:

$$F(x|\mu,s) = \int_{-\infty}^{x} s^{-1} \left(1 + e^{-\frac{v-\mu}{s}}\right)^{-2} e^{-\frac{v-\mu}{s}} dv = \frac{1}{1 + e^{-\frac{x-\mu}{s}}}$$

Emphasis can be added by using **bold** typeface, *italic*, colors or *any combination*. More about colors follows later.

## THE FRAME TITLE IS RENDERED IN SMALL CAPS

The official UGent Powerpoint/Keynote templates have all titles in both ALL CAPS, **bold** and underline.

In my opinion, this combination is somewhat AGGRESSIVE AND UNPLEASANT TO THE EYE.

Instead, this theme makes use of SMALL CAPS for all titles and subtitles

# LISTS AND ENUMERATION



## LISTS OF ITEMS

This is how a list of unnumbered items looks:

- Item 1
- Item 2
- Item 3

Nested lists of items are possible too:

- Item 1
  - Subitem a
  - Subitem b
- Item 2
  - Subitem a
  - Subitem b

## LISTS OF ITEMS

This is how a list of numbered items looks:

- 1 Item 1
- 2 Item 2
- 3 Item 3
- 4 Item 4
- 5 Item 5

# Colors



#### Colors

- The offical UGent colors (in RGB) are part of the theme.
- The primary UGent color is ugentblue, and the secondary color is ugentyellow.
- The faculty specific UGent themes can use the faculty color as secondary color.

ugentblue	ugent-eb
ugentyellow	ugent-di
ugent-lw	ugent-pp
ugent-re	ugent-bw
ugent-we	ugent-fw
ugent-ge	ugent-ps
ugent-ea	

Note that every faculty color name refers to the abbreviation of the faculty name.

#### MORE ABOUT COLORS

- The main colors of the presentation are ugentblue, black and white.
- The secondary color should only be used exceptionally.
- The theme defines a special color ugent-alert.
- This color is *or* ugentyellow *or* the faculty color.
- The special color ugent-alert equals the faculty color:
  - if the faculty specific template is used
  - and if the option usecolors is set
- In all other cases ugent-alert is ugentyellow

#### Theorem

There is no largest prime number.

#### Theorem

There is no largest prime number.

#### Proof

Suppose *p* were the largest prime number.

#### Theorem

There is no largest prime number.

- 1 Suppose *p* were the largest prime number.
- 2 Let *q* be the product of the first *p* numbers.

#### Theorem

There is no largest prime number.

- 1 Suppose *p* were the largest prime number.
- **2** Let q be the product of the first p numbers.
- Then q + 1 is not divisible by any of them.

#### Theorem

There is no largest prime number.

- 1 Suppose *p* were the largest prime number.
- **2** Let q be the product of the first p numbers.
- 3 Then q + 1 is not divisible by any of them.
- But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

#### Theorem

There is no largest prime number.

- 1 Suppose *p* were the largest prime number.
- 2 Let *q* be the product of the first *p* numbers.
- 3 Then q + 1 is not divisible by any of them.
- But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

## ANOTHER EXAMPLE OF UGENT-ALERT

Blocks can be created for definition, proofs, examples, etc.

## Regular block

This is an important message.

## ANOTHER EXAMPLE OF UGENT-ALERT

Blocks can be created for definition, proofs, examples, etc.

#### Regular block

This is an important message.

A special kind of block is the alertblock:

#### Alert

This is a very important message.

# FRAME NUMBERS



#### FRAME NUMBERS

- By default frame numbers are places on every "regular" frame.
- That excludes logoframes, titleframes and sectionframes.
- The frame number is always followed by the total number of frames.
- The theme option noframenumber removes frame numbers on all slides.

# QUESTIONS?



INTERNAL SEMINAR - 12/02/2020

# TECHNICAL ANALYSIS IN BITCOIN MARKETS

Niek Deprez - Niek. Deprez@UGent. be

