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# The Impact of Cash Holding on Stock Returns for Listed companies in the Egyptian Stock Exchange

By: Bassant Mohamed Hassan

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## **Abstract:**

This research investigates the influence of corporate liquidity on stock market performance, using a sample of 103 non-financial companies listed on the Egyptian Stock Exchange. The fixed-effects panel data model, accompanied by descriptive statistical analyses and robustness checks, consistently evidences a negative association between cash holding and stock return. Different industries exhibit different strengths of association. Cash holdings do have greater sensitivity in the consumer staples and industrial sectors. The results highlighted the importance of strategically managing liquidity for the economically unstable emerging markets, with practical implications for corporate finance managers, institutional investors, and policymakers..

### **Introduction:**

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Normalization of corporate cash drizzle in terms of managing cash reserves is highly imperative for sustaining corporate financial stability, thereby equipping firms to withstand uncertainties in operations and manage risk. However, excessively high cash levels within a company can indicate agency problems or possible lack of any expected good investment opportunities. In developing economics like Egypt, where organizations often face ups and downs in availability of capital and are governed by changing regulatory and investor protection systems, this study on liquidity management becomes extremely significant. It seeks to assess how variations in corporate cash holdings influence the stock-market performance of firms in respect of those listed on the Egyptian Stock Exchange, with particular reference to the transformative period post the structural economic reforms and the floatation of the currency in 2016.

## **Literature Review:**

### 2.1 Theoretical foundations

Corporate cash holdings are widely seen as a very important part of a financial strategy and they have dual and possibly conflicting roles. The agency theory (Jensen, 1986) describes how excess liquidity affords greater discretion to management, with a corresponding increase in the risk of priority over shareholder wealth. Such behaviors may include inefficient investment choices or decreases in dividend distributions. In accordance with trade-off theory, on the other hand, adequate liquidity is deemed necessary to absorb external financial availability costs, particularly at very volatile investment environments or fewer capital market accesses (Opler et al., 1999).

Many empirical studies have fine-tuned these frameworks in recent years. For example, according to Wang and Zhang (2020), the relationship between liquidity and firm value is shown to be non-linear and can be modeled using an inverted U-hypothesis, whereby moderate cash level maximizes valuation while either cash shortages or excess exert adverse effects. In agreement, Banjade and Diltz (2022) argued that the optimum liquidity is beneficial for firm value, while any excess cash proves to be detrimental for performance in firms with weak governance. They also found that an affinity with bank ownership is associated with lower levels of cash, particularly within low-governance environments.

In contributing to the discussions in emerging markets, Shabeeb Ali and et al. (2024) study Egyptian firms with the Generalized Method of Moments (GMM) and find that board characteristics, such as larger board size, gender diversity, and frequent meetings, strengthen the positive influence of cash holdings on

performance. This confirms that internal governance mechanisms are crucial to the effectiveness of liquidity management's strategic implementation.

To this current day, there has been an increasing emphasis in modern literature on or about managerial competency. A study done in 2024 indicates that firms headed by strong leaders tend to put cash reserves to good use and lend a tangible conversion of liquidity, and that speaks to the quality of leadership as the major determinant in financial decisions.

# 2.2 Insights from Developed Economies

Further evidence from advanced economies reveals the strategic use of liquidity. García-Teruel and Martínez-Solano (2008), for instance, have shown how small and medium-sized enterprises in Spain have been increasing their cash holdings in response to investment opportunities and increasingly uncertain cash flows. The precautionary motive has, thus, come out to be stronger. Other studies, however, sometimes emphasize quite the dangers of excess liquidity in governance constrained situations: Pinkowitz, Stulz, and Williamson (2006) showed that in countries suffering from poor investor protections, a value assigned for corporate cash will lose its significance, since investors tend to fear misallocation or misuse of funds.

The first piece of evidence can be found in the advanced economies, wherein evidences regarding the use of liquidity are further explained. For instance, according to García-Teruel and Martínez-Solano (2008), SMEs in Spain would increase their cash reserves in case of unforeseen cash inflows along with greater investment prospects, indicating that precautionary motives prevail. Other studies underline the dangers of holding excess cash in governance constrained settings: Pinkowitz, Stulz, and Williamson (2006) found that in countries having insufficient investor protections, much less importance is given

to cash in firms; the source of such loss of value lies in fears of misallocation or misuses of funds by investors.

This will constitute, as it were, evidence from advanced economies rather than the bureaucratic research they have over the use of liquidity. García-Teruel and Martínez-Solano (2008) showed how small and medium-sized enterprises in Spain increased their cash holdings due to more uncertain cash inflow along with greater investment opportunities forecasted, indicating that precautionary motives prevail. Other schools of study sometimes tend to emphasize the dangers of excess liquidity in governance constrained situations: Pinkowitz, Stulz, and Williamson observed in 2006 that, in countries where investor protection is hardly adequate, value that can usually be placed for corporate cash is significantly diminished once fears of misallocation or misuse of funds in a corporation cloud the vision of investors.

In the American context, Harford et al. (2024) stated that in times of tight credit, firms tend to view cash as a strategic resource, critical in ensuring operational continuity. Likewise, Jiang et al. (2020) studied promoter-controlled firms in India to find that these firms accumulate cash for precautionary reasons most of the time, even at the cost of shareholder interests, thus representing a governance-performance trade-off.

# 2.3 Evidence from Emerging Markets

In emerging markets, however, this liquidity is usually sensitive to macro uncertainties and the institutional inefficacies surrounding its definition. Belkaoui (2011), based on a cross country analysis, concludes that firms in the MENA region that possess a higher level of liquidity have more room for manoeuvre against economic shocks; however, it also means that these

companies take more time to adjust to optimal cash positions, which rely more on managerial intent than operational needs for cash retention decisions.

Nguyen and Tran (2023) show that the impact of liquidity policies differs based on the maturity of the financial system. High cash reserves contribute positively to corporate performance in less developed financial systems; however, benefits attributable to excessive cash holdings decrease with maturity, as better access to credit becomes available and regulatory frameworks develop.

As Ahmed and Bukhari (2022) found, cash has increased importance within the strategic context of firms in times of high economic policy uncertainty. They argue that attitudes of investors regarding corporate cash holdings are extremely volatile under macroeconomic conditions such as instability, which tends to make them more positive.

According to Yilmaz and Samour (2024), a study commissioned across 536 non-financial firms in 11 MENA countries unveiled a curvilinear relationship between cash holdings and different firm performance indicator estimates such as ROA, ROE, and EBIT margin. The findings revealed that firms with moderate liquidity levels record peak performance, while excessive and inadequate reserves were associated with financial underperformance.

# 2.4 Contextual Findings from MENA and Egypt

Under this scenario, one may mention mixed findings for empirical reviews on corporate cash-holding behavior in the MENA region. As noted by Belkaoui (2011), in such a region, firms proved to be more financially robust during economic distress when they had liquid funds; thus cash reserves assume significance under the backdrop of capital markets that are still in the developing stage. Conversely, Rashed and Ghoniem (2022) observed a negative relationship between cash holdings and stock performance for small and

medium enterprises listed on the Nile Exchange in Egypt, attributing that to the fear of managerial opportunism from the part of investors, especially when there is lack of transparency from the companies about their liquidity management practices.

Empirical studies are few and far between in the Egyptian environment, yet Elnahass et al. (2021) indicated that strong governance practices may mitigate the negative valuation effects from excess liquidity. Conversely, Aly et al. (2021) showed that firms with more cash than their industry peers were more adversely affected by macroeconomic shocks following the flotation of the Egyptian pound in 2016, thereby extending the relevance of economic instability and governance structures in the context of cash perceptions.

Another aspect discussed was the domain of governance in a study by Lee and Kim (2020) on the Korean market which found those firms with good governance mechanisms were more likely to invest excess cash into value-enhancing opportunities. This suggests that good governance may create the perception among investors of cash as a strategic asset and, even more importantly, may dissuade their views on the strategic use of illiquid assets to its wasteful use.

Al Faraj and Abdulhadi (2023) pointed out varied investor attitudes toward cash holdings in the GCC markets between sectors. The study uncovered that high liquidity enhances market valuation in the case of industry and technology firms, while real estate and retail sectors tend to regard high levels of cash rather unfavorably.

Likewise, Metwally, Aly, and Ali (2024) examined the nature of the empirical relationship among non-financial firms in Egypt and concluded that firms proactively engaging in corporate social responsibility (CSR) are likely to hold

precautionary cash at higher levels. This relationship, though, was considerably moderated by the level of gender diversity on corporate boards, whereby higher female representation coincided with lower levels of cash accumulation. This evidences that internal governance mechanisms are very important in influencing the liquidity-management behavior of firms.

# The literature showed the following aspects:

- Theoretical interpretations of corporate liquidity generally fall into two schools of thought: the agency theory, which considers excess cash as prone to misrepresentation by management, and the trade-off theory, which sees liquidity as a cushion against external financing constraints. For instance, Wang and Zhang (2020) noted in their empirical findings that there is a non-linear effect whereby intermediate liquidity optimizes performance, but that both scarcities of and surpluses in such liquidity might cause an adverse impact.
- The quality of governance is a strong moderator in that regard. Higher reliance on board density or oversight structures will increase the likelihood that the firm will optimally use its liquidity provisions (Shabeeb Ali et al., 2024). Whereas cash possesses that nature of strategic resource in developed economies, emerging countries generally view cash as a poverty indicator, especially in areas characterized by poor governance (Pinkowitz et al., 2006).
- Within the Mena region, companies are known to put precautionary liquidity measures in place. This is particularly true for Egypt, for the limited existing research studies established an inverse relationship with cash returns, especially in the case of smaller firms with low

transparency. This shows the need for localized frameworks for research that will account for Egypt's unique economic and institutional environment..

### Research GAP:

While many studies have examined the correlation between corporate cash holdings and firm performance in developed economies, empirical work appears largely absent in the case of Egypt. Such an absence of empirical work becomes manifestly important given Egypt's peculiar macroeconomic settings characterized by recurrent currency devaluations, high inflation, and volatility in corporate governance practices. The existing literature also does not take into consideration these local economic and institutional factors that may have been shaping the cash versus stock market performance relation.

Moreover, earlier studies have concentrated on variables such as profitability and general firm valuation, often neglecting direct measures of shareholder returns, which tend to be quite volatile with respect to investor sentiment and managerial decisions concerning liquidity. The divergence in results from one emerging market to another solidifies the need for context-specific research. This study will seek to fill this empirical gap by examining linear and likely several non-linear relationships between cash holdings and stock returns, specifically aiming at Egyptian firms during these times of remarkable economic change.

# **Research Questions:**

- 1. How are cash balances related to stock returns for companies listed on the Egyptian stock exchange?
- 2. Are cash holdings for firms holding in different sectors perceived in a different manner?
- 3. To what extent do firm level characteristics and economic variables act as moderators in the relationship between corporate cash holding and performance in equity markets?
- 4. Does the level of cash holdings in any way imply the presence of non-linear or any threshold relationship with stock returns, which means setting some optimal liquidity point?

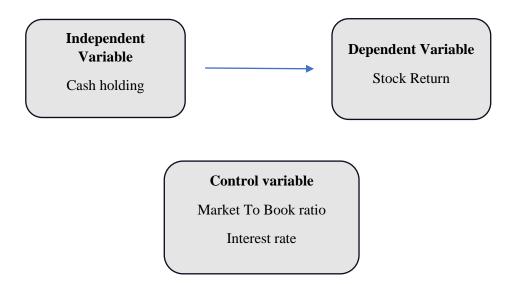
# **Research Goals:**

- This study aims to empirically explore the relationship between corporate cash holdings and stock returns among companies listed on the Egyptian Stock Exchange (EGX).
- It seeks to determine whether this relationship follows a linear trajectory or exhibits non-linear patterns.
- Furthermore, the research assesses how the influence of cash holdings on stock performance varies across different industry sectors.
- Finally, the study aspires to propose evidence based recommendations to enhance corporate liquidity management strategies, particularly within the context of emerging market environments.

# **Conceptual Framework:**

Theoretical agency theory and trade-off theory, two mainstream theories in finance, form the basis on which this research has been developed, with each

offering divergent insight into the effects of corporate cash holdings on stock market performance. The trade-off theory suggests that maintaining an optimum liquidity position allows the firm to handle unexpected financial exigencies and reduces its reliance on high-cost external capital, both of which enhance overall performance. On the other hand, the agency theory focuses on the harms or risks posed by excess cash, and that is to say, high liquidity may encourage managers to pursue their personal objectives, which may not be in the interest of shareholders, allowing inefficiencies to creep into the allocation of resources, and thus indirectly harming firm value.



# **Hypothesis:**

H1:The relationship between corporate cash holding and stock return is statistically significant among the firms listed on the Egyptian Stock Exchange (EGX).

H2:Cash holdings and stock returns have disparate relationships across industries.

H3:There is no statistically significant evidence of a non-linear and deemed quadratic relationship between cash holdings and stock returns..

# **Data and Methodology:**

This study employs a quantitative research design, utilizing panel data collected from a sample of 103 non-financial firms listed on the Egyptian Stock Exchange (EGX). Financial and market related data were obtained from the Egypt for Information Dissemination (EGID) database and rigorously cross verified with audited annual reports to ensure adherence to International Financial Reporting Standards (IFRS) and uphold a high standard of data reliability.

To enhance the empirical model, a squared term for cash holdings (CH<sup>2</sup>) was introduced to capture potential non-linear effects specifically, concave or convex relationships between cash reserves and stock returns, in line with the approach proposed by Bates et al. (2009). This modification allows for the exploration of whether an optimal cash level exists that maximizes firm performance in the equity market.

For estimation, the study adopts a fixed-effects panel regression model, a robust technique widely applied in financial economics to account for unobserved heterogeneity across firms that remains constant over time (Wooldridge, 2010). The baseline specification of the model is presented as follow:

TRit= $\alpha i + \beta 1$ CHit+ $\beta 2$ CHit2+ $\gamma X$ it+ $\delta Y$ eart+ $\epsilon it$ 

## Where:

- TRit = Total annual stock return (capital gain + dividend yield) of firm i
  at time t
- CHit = Cash holdings (cash and equivalents / total assets)
- CH2it = Square of cash holdings to capture potential non-linear effects
- Xit = Vector of control variables
- Yeart = Year fixed effects
- $\alpha i = Firm fixed effects$

- $\varepsilon$ it = Error term
- Dependent Variable: Stock Return (TR)

This is defined as the total shareholder return of the firm over a period of one year. This is calculated as the annual percentage change in stock prices adjusted for any dividends paid. Hence, it reflects capital gains and income components, which provide a comprehensive view of the returns to investors.

• Independent Variable: Cash Holding (CH)

Cash holding refers to the ratio of the total assets of a firm held in cash and cash equivalents. According to the methodology of Bates et al. (2009), this ratio serves as a proxy for corporate liquidity. It reflects financial flexibility on the part of the firm in meeting short-term obligations and taking short-term investment options.

### • Control Variables:

Two control variables were included to eliminate the unknown confounding effects:

- Market-to-Book Ratio (MTB): A measure of firm's market value, for the purposes of comparison with its book value, usually used to estimate investors' expectations and growth prospects.
- Interest Rate: The current macroeconomic borrowing cost, as it might impose an effect on investment decisions and afterwards stock performance

The fixed-effects model is preferred over the random-effects model for its greater consistency and compatibility relative to the characteristics of the data

used in this research work. This methodologically reflects the assumption that the unobserved individual effects are correlated with the explanatory variables.

The model estimates were then subjected to several diagnostic tests to ensure robust and reliable estimates resulting from the model and also to handle potential econometric problems:

- Breusch-Pagan test: Used to check for the presence of heteroskedasticity in the error terms.
- Wooldridge test: Used to check for autocorrelation in the panel data setting.
- Variance Inflation Factor (VIF): It is calculated to measure the degree or extent of multicollinearity among the independent variables.
- F-Tests: Used to test the joint statistical significance of the explanatory variables in the model.

Robust standard errors were employed in the regression analyses to correct the damage resulting from both heteroskedasticity and autocorrelation, as evidenced by the diagnostic tests. That is because it will improve the accuracy of statistical estimates and provide greater powers of credibility to the results, thus improving overall validity of the model findings.

# **Statistical Analysis:**

This study uses the TSR metric (Total Shareholder Return) to consider the stock return as a combination of capital gains and dividend income. The said performance measure reflects the total economic worth delivered to the investors according to the operationalization prescribed by Opler et al. (1999). A fixed effect panel regression model in STATA software has been used to

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examine the effect of cash holdings on stock performance. This is the most appropriate model because it controls for unobserved, time-invariant firmspecific heterogeneity, as suggested by Wooldridge (2010).

The sample consists of 103 non-financial companies quoted on the Egyptian Stock Exchange (EGX). Descriptive statistics showed that the average cash-to-total-assets ratio is 9.9%, which differs across sectors without any specific pattern. Such findings are in line indicating that Ferreira and Vilela (2004) observed as heterogeneous liquidity practices in European firms. Average stock return, accordingly, during the study was 22.9%, attributed to the speculative and volatile nature of the Egyptian equity market.

A Pearson correlation coefficient of -0.45 between cash holdings and stock returns was observed, indicating a moderate but significant negative relationship. This is consistent with the conclusion of Dittmar and Mahrt-Smith (2007), who advocated in weak investor protection environments excess cash holdings are construed as managerial inefficiency, thus producing value losses to shareholders. The fixed-effect regression analysis outcome also supports this relationship cash holdings negatively significant, at a 5% level, consistent with that of Rashed and Ghoniem (2022) in Egyptian SMEs. However, CH² was not significant statistically, denoting that the relationship between cash holdings and stock return is linear rather than inverted U-shaped as associated with Bates et al. (2009) in developed markets.

To provide further verification of the results, a battery of diagnostic tests was conducted. The Breusch-Pagan test indicated evidence of heteroskedasticity, while the Wooldridge test confirmed the presence of first-order autocorrelation. Both issues were resolved by means of robust standard errors. Further VIF analysis indicated that all the values were, indeed, below the commonly

accepted threshold of 5, thus establishing absence of significant multicollinearity which adds to the robustness of the regression estimates.

# **Interpretation**:

The impact of these cash holding factors is generally considered to exert a strong influence on the stock returns of companies operating on the Egyptian Stock Exchange. The Hausman specification test shows that the model of fixed effects panel regression takes into account unobserved firm-level heterogeneity for 103 sampled non-financial companies and is fairly well adjusted to the robust standard error estimates in light of heteroskedasticity and autocorrelation, thus validating the reliability and validity of the estimated coefficients.

Part of the result being reported here is that cash holdings coefficient ( $\beta_1$ ) is significant and negative; namely, ceteris paribus, firms with more liquid cash make lower returns on total shareholder. This finding sheds weights to Jensen (1986)'s agency theory, which posits an agency problem; within a somewhat diluted corporate governance system, such excess cash becomes a breeding ground for managerial opportunism and poor capital allocation. In Egypt, where corporate governance standards are rather lax by international standards, large cash reserves are often viewed as wasteful resource traps that destroy corporate value.

Interestingly, there is no non-linear relationship between cash holding and stock returns, for the variable squared cash holdings (CH²) was nonsignificant. This contradicts the work done by Bates et al. (2009), which concluded that developed markets showed an inverted U-relationship indicating an optimum range of liquidity. On the contrary, the Egyptian findings seem to indicate a steady negative relationship between greater cash holdings and poor equity performance without an evidence for breakpoints according to the effect.

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Gaining insight from the control variables would only help add weight to the argument. The market-to-book ratio showed s significant positive association with stock returns, providing an affirmation that shareholders regard such companies higher because of the investor's expectations. In turn, an interest rate did not show much moderation, thus suggesting that macroeconomic influences did not greatly affect the performance versus liquidity relationship during the sample period. That is, what was observed rather is that decisions made during internal financial management decision-making, especially those concerning liquidity, would directly affect shareholder value above geographical economic variables.

In brief, the outcome across the results indicates that, in the emerging capital market of Egypt, cash holdings do not appear to be instruments for risk management; rather, unallocated liquidity, unless correlated to credible investment plans, may be viewed as a sign of inefficient management or opaque oversight amongst investors. These findings themselves call for transparency in capital allocation strategies and good governance systems to catalyze investor confidence and maximize stockholder value.

### **Discussion:**

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The present study has come up with important empirical insights into the impacts that corporate liquidity practices pose on the general investor sentiment prevailing in the Egyptian capital market. The results show a consistent negative and statistically significant link between cash levels and stock returns, implying that large cash reserves are oftentimes viewed with skepticism by investors. Such doubts are borne out of concern regarding the inefficient utilization of financial resources, the low degree of transparency in financial reporting, and the poor state of governance mechanisms-thus a highly noticeable perception in

less developed economies, such as Egypt, where market imperfections and asymmetries of information are more pronounced than in their developed counterparts.

The principal agency theory explains these findings (Jensen, 1986), indicating that excess cash provides higher managerial discretion and correspondingly increasing likelihood of making decisions contrary to shareholder value. Thus, in an under-regulated environment, high liquidity may signal an absence of strategic direction, a lack of good investment opportunities, or curtailed payouts to shareholders-all of which act to depress stock prices.

Next, the lack of significance of the squared cash holdings term puts to question a widely established view in more developed market literature, such as Bates et al. (2009), which posits a non-linear (inverted U-shaped) relationship suggesting an optimal amount of cash to be held. Its absence in the Egyptian setting may be due to structural factors, such as an environment where investors are not sophisticated, have constricted access to timely corporate disclosures, or lack incentives to promote the efficient application of cash resources.

The methodological design of the study centered on a fixed effects panel regression with robust standard errors and ensures that unobserved, time-invariant firm characteristics are adequately controlled for, which bolsters the credibility of the statistical findings. Moreover, the absence of significance of interest rate variables points to the possibility that the investors in the Egyptian market could have prioritized firm-specific financial decisions as opposed to macroeconomic factors while assessing firm performance.

These results have profound implications for the corporate governance arena. Companies listed on the Egyptian Stock Exchange (EGX) need to realize that keeping too much cash and without a squarely defined strategy for its use may

erode the confidence of investors. To mitigate this would require firms to practice transparent capital allocation, maintain a systematic dividend policy, and strongly involve shareholders in determining the interpretation of their liquidity positions.

In turn, on a political level, the findings bring forth the thrust towards the strengthening of governance standards, the enhancement of quality and timeliness of financial disclosures, and the promotion of broader investor education initiatives. The regulators, for instance, the Financial Regulatory Authority (FRA), have the pivotal role of spearheading this reform process aimed at creating a far more transparent, accountable, and sustainable investment environment in the Egyptian capital markets.

# **Conclusion:**

Robust empirical insights are provided through this study concerning the relationship between corporate cash holdings and stock returns in Egyptian non-financial firms. A fixed-effects panel regression model was used with data on 103 firms listed on the Egyptian Stock Exchange (EGX). An analysis finding a linear and negative relationship between cash balances and returns to shareholders consistently suggests that excess liquidity for investors in an identified state like Egypt, characterized by macroeconomic instability, changing governance frameworks, and significant information asymmetries, appears not to be a precautionary asset but rather as a sign of managerial inefficiency or underutilized capital.

The absence of any significant non-linear (quadratic) effect goes on to challenge even further prior evidence coming from developed markets, which had emphasized the existence of optimal cash levels enhancing that firm value.

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Rather, the results obtained here suggest that in Egypt, there is an atmosphere of negative sentiment among investors toward high balances of cash, particularly so in case when capital deployment strategies are not communicated and transparent. The significance of control variables such as the market-to-book ratio, in the expected directions, confirms the robustness and validation of the model.

The results have dire implications for corporate practitioners and policymakers alike. Managers face the challenge of striking a balance between financial flexibility and the expectation of investors who expect maximization of cash efficiency. Thus, for the regulators, enhancing disclosure requirements, strengthening corporate governance, and fostering increased shareholder engagement would reduce the frictions leading to liquidity-related valuation discounts.

Overall, this study makes significant contributions to the fast-growing literature explaining the interaction of liquidity management and firm value in the context of emerging economies. The importance of further specific research in individual sectors to clarify the heterogeneity that characterizes cash policies and their influence on investor behavior throughout various organizational and institutional terrains is brought to light.

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