



Cyberscope

## Audit Report

# Amazing BabyDoge

June 2022

Type       BEP20

Network    BSC

Address    0x3ab311faf512fcd76d80a1332677a4110e7a792b

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## Contract Review

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | amazingbabydoge                                                                                                                                         |
| <b>Compiler Version</b> | v0.8.9+commit.e5eed63a                                                                                                                                  |
| <b>Optimization</b>     | 200 runs                                                                                                                                                |
| <b>Licence</b>          | MIT                                                                                                                                                     |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0x3ab311faf512fcd76d80a1332677a4110e7a792b">https://bscscan.com/token/0x3ab311faf512fcd76d80a1332677a4110e7a792b</a> |
| <b>Symbol</b>           | ABabyDoge                                                                                                                                               |
| <b>Decimals</b>         | 18                                                                                                                                                      |
| <b>Total Supply</b>     | 1,000,000,000,000                                                                                                                                       |
| <b>Domain</b>           | <a href="https://amazingbabydoge.com/">https://amazingbabydoge.com/</a>                                                                                 |

## Source Files

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| <b>Filename</b>     | <b>SHA256</b>                                                    |
| <b>contract.sol</b> | 288f98facc15cac4b6cfe2f0d9030ecc5ca704b261a6bff9a5e8643e05c27b5e |

## Audit Updates

|                      |               |
|----------------------|---------------|
| <b>Initial Audit</b> | 4th July 2022 |
| <b>Corrected</b>     |               |

# Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

| Severity | Code | Description                                                                                                       |
|----------|------|-------------------------------------------------------------------------------------------------------------------|
| ●        | ST   | Contract Owner is not able to stop or pause transactions                                                          |
| ●        | OCTD | Contract Owner is not able to transfer tokens from specific address                                               |
| ●        | OTUT | Owner Transfer User's Tokens                                                                                      |
| ●        | ELFM | Contract Owner is not able to increase fees more than a reasonable percent (25%)                                  |
| ●        | ULTW | Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent |
| ●        | MT   | Contract Owner is not able to mint new tokens                                                                     |
| ●        | BT   | Contract Owner is not able to burn tokens from specific wallet                                                    |
| ●        | BC   | Contract Owner is not able to blacklist wallets from selling                                                      |

# Contract Diagnostics

● Critical    ● Medium    ● Minor

| Severity | Code | Description                                |
|----------|------|--------------------------------------------|
| ●        | CO   | Code Optimization                          |
| ●        | L01  | Public Function could be Declared External |
| ●        | L04  | Conformance to Solidity Naming Conventions |
| ●        | L05  | Unused State Variable                      |
| ●        | L07  | Missing Events Arithmetic                  |
| ●        | L09  | Dead Code Elimination                      |
| ●        | L13  | Divide before Multiply Operation           |
| ●        | L15  | Local Scope Variable Shadowing             |

## CO - Code Optimization

|                    |                    |
|--------------------|--------------------|
| <b>Criticality</b> | minor              |
| <b>Location</b>    | contract.sol#L1063 |

### Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations.

With the current contract implementation the variable `tradingActive` is always true and it can not be changed to false. The contract can be optimized by removing the `tradingActive` variable from the contract and its mechanisms.

```
if(!tradingActive){  
    require(!_isExcludedFromFees[from] || !_isExcludedFromFees[to], "Trading is not active.");  
}
```

### Recommendation

Rewrite some code segments so the runtime will be more performant.

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L293,633,230,334,213,256,315,642,205,275,264

### Description

Public functions that are never called by the contract should be declared external to save gas.

```
allowance
approve
name
transferOwnership
increaseAllowance
transfer
symbol
decreaseAllowance
decimals
...
```

### Recommendation

Use the external attribute for functions never called from the contract.

## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L855,1000,32,903,49,907,31,991,860,905,722

### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
_devFee  
_buyBackFee  
WETH  
devWalletUpdated  
_marketingFee  
_liquidityFee  
deadAddress  
DOMAIN_SEPARATOR  
buyBackWalletUpdated  
...
```

### Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

## L05 - Unused State Variable

**Criticality**

minor

**Location**

contract.sol#L653

### Description

There are segments that contain unused state variables.

```
MAX_INT256
```

### Recommendation

Remove unused state variables.

## L07 - Missing Events Arithmetic

**Criticality**

minor

**Location**

contract.sol#L1000,991,980

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
swapTokensAtAmount = newAmount  
buyMarketingFee = _marketingFee  
sellMarketingFee = _marketingFee
```

### Recommendation

Emit an event for critical parameter changes.

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L699,712,398,705

### Description

Functions that are not used in the contract, and make the code's size bigger.

```
toUint256Safe  
_burn  
toInt256Safe  
abs
```

### Recommendation

Remove unused functions.

## L13 - Divide before Multiply Operation

**Criticality**

minor

**Location**

contract.sol#L1046

### Description

Performing divisions before multiplications may cause lose of prediction.

```
fees = amount.mul(buyTotalFees).div(100)
tokensForLiquidity += fees * sellLiquidityFee / sellTotalFees
tokensForMarketing += fees * sellMarketingFee / sellTotalFees
tokensForDev += fees * sellDevFee / sellTotalFees
tokensForBuyBack += fees * sellBuyBackFee / sellTotalFees
```

### Recommendation

The multiplications should be prior to the divisions.

## L15 - Local Scope Variable Shadowing

**Criticality**

minor

**Location**

contract.sol#L925

### Description

There are variables that are defined in the local scope containing the same name from an upper scope.

```
totalSupply
```

### Recommendation

The local variables should have different names from the upper scoped variables.

# Contract Functions

| Contract              | Type                 | Bases      |            |           |
|-----------------------|----------------------|------------|------------|-----------|
|                       | Function Name        | Visibility | Mutability | Modifiers |
|                       |                      |            |            |           |
| <b>Context</b>        | Implementation       |            |            |           |
|                       | _msgSender           | Internal   |            |           |
|                       | _msgData             | Internal   |            |           |
|                       |                      |            |            |           |
| <b>IUniswapV2Pair</b> | Interface            |            |            |           |
|                       | name                 | External   |            | -         |
|                       | symbol               | External   |            | -         |
|                       | decimals             | External   |            | -         |
|                       | totalSupply          | External   |            | -         |
|                       | balanceOf            | External   |            | -         |
|                       | allowance            | External   |            | -         |
|                       | approve              | External   | ✓          | -         |
|                       | transfer             | External   | ✓          | -         |
|                       | transferFrom         | External   | ✓          | -         |
|                       | DOMAIN_SEPARATOR     | External   |            | -         |
|                       | PERMIT_TYPEHASH      | External   |            | -         |
|                       | nonces               | External   |            | -         |
|                       | permit               | External   | ✓          | -         |
|                       | MINIMUM_LIQUIDITY    | External   |            | -         |
|                       | factory              | External   |            | -         |
|                       | token0               | External   |            | -         |
|                       | token1               | External   |            | -         |
|                       | getReserves          | External   |            | -         |
|                       | price0CumulativeLast | External   |            | -         |
|                       | price1CumulativeLast | External   |            | -         |
|                       | kLast                | External   |            | -         |
|                       | mint                 | External   | ✓          | -         |
|                       | burn                 | External   | ✓          | -         |

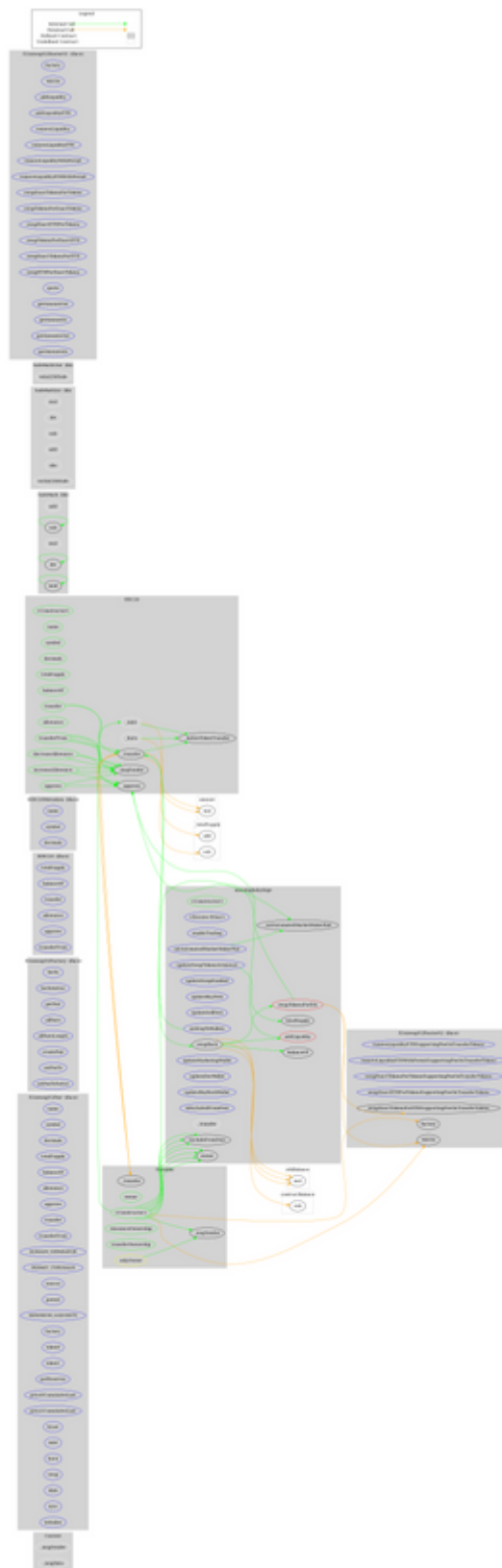
|                          |                |                                       |   |   |
|--------------------------|----------------|---------------------------------------|---|---|
|                          | swap           | External                              | ✓ | - |
|                          | skim           | External                              | ✓ | - |
|                          | sync           | External                              | ✓ | - |
|                          | initialize     | External                              | ✓ | - |
|                          |                |                                       |   |   |
| <b>IUniswapV2Factory</b> | Interface      |                                       |   |   |
|                          | feeTo          | External                              |   | - |
|                          | feeToSetter    | External                              |   | - |
|                          | getPair        | External                              |   | - |
|                          | allPairs       | External                              |   | - |
|                          | allPairsLength | External                              |   | - |
|                          | createPair     | External                              | ✓ | - |
|                          | setFeeTo       | External                              | ✓ | - |
|                          | setFeeToSetter | External                              | ✓ | - |
|                          |                |                                       |   |   |
| <b>IERC20</b>            | Interface      |                                       |   |   |
|                          | totalSupply    | External                              |   | - |
|                          | balanceOf      | External                              |   | - |
|                          | transfer       | External                              | ✓ | - |
|                          | allowance      | External                              |   | - |
|                          | approve        | External                              | ✓ | - |
|                          | transferFrom   | External                              | ✓ | - |
|                          |                |                                       |   |   |
| <b>IERC20Metadata</b>    | Interface      | IERC20                                |   |   |
|                          | name           | External                              |   | - |
|                          | symbol         | External                              |   | - |
|                          | decimals       | External                              |   | - |
|                          |                |                                       |   |   |
| <b>ERC20</b>             | Implementation | Context,<br>IERC20,<br>IERC20Metadata |   |   |
|                          | <Constructor>  | Public                                | ✓ | - |
|                          | name           | Public                                |   | - |
|                          | symbol         | Public                                |   | - |

|                    |                      |          |   |           |
|--------------------|----------------------|----------|---|-----------|
|                    | decimals             | Public   |   | -         |
|                    | totalSupply          | Public   |   | -         |
|                    | balanceOf            | Public   |   | -         |
|                    | transfer             | Public   | ✓ | -         |
|                    | allowance            | Public   |   | -         |
|                    | approve              | Public   | ✓ | -         |
|                    | transferFrom         | Public   | ✓ | -         |
|                    | increaseAllowance    | Public   | ✓ | -         |
|                    | decreaseAllowance    | Public   | ✓ | -         |
|                    | _transfer            | Internal | ✓ |           |
|                    | _mint                | Internal | ✓ |           |
|                    | _burn                | Internal | ✓ |           |
|                    | _approve             | Internal | ✓ |           |
|                    | _beforeTokenTransfer | Internal | ✓ |           |
|                    |                      |          |   |           |
| <b>SafeMath</b>    | Library              |          |   |           |
|                    | add                  | Internal |   |           |
|                    | sub                  | Internal |   |           |
|                    | sub                  | Internal |   |           |
|                    | mul                  | Internal |   |           |
|                    | div                  | Internal |   |           |
|                    | div                  | Internal |   |           |
|                    | mod                  | Internal |   |           |
|                    | mod                  | Internal |   |           |
|                    |                      |          |   |           |
| <b>Ownable</b>     | Implementation       | Context  |   |           |
|                    | <Constructor>        | Public   | ✓ | -         |
|                    | owner                | Public   |   | -         |
|                    | renounceOwnership    | Public   | ✓ | onlyOwner |
|                    | transferOwnership    | Public   | ✓ | onlyOwner |
|                    |                      |          |   |           |
| <b>SafeMathInt</b> | Library              |          |   |           |
|                    | mul                  | Internal |   |           |
|                    | div                  | Internal |   |           |
|                    | sub                  | Internal |   |           |

|                           |                                                           |                    |         |   |
|---------------------------|-----------------------------------------------------------|--------------------|---------|---|
|                           | add                                                       | Internal           |         |   |
|                           | abs                                                       | Internal           |         |   |
|                           | toUint256Safe                                             | Internal           |         |   |
|                           |                                                           |                    |         |   |
| <b>SafeMathUint</b>       | Library                                                   |                    |         |   |
|                           | toInt256Safe                                              | Internal           |         |   |
|                           |                                                           |                    |         |   |
| <b>IUniswapV2Router01</b> | Interface                                                 |                    |         |   |
|                           | factory                                                   | External           |         | - |
|                           | WETH                                                      | External           |         | - |
|                           | addLiquidity                                              | External           | ✓       | - |
|                           | addLiquidityETH                                           | External           | Payable | - |
|                           | removeLiquidity                                           | External           | ✓       | - |
|                           | removeLiquidityETH                                        | External           | ✓       | - |
|                           | removeLiquidityWithPermit                                 | External           | ✓       | - |
|                           | removeLiquidityETHWithPermit                              | External           | ✓       | - |
|                           | swapExactTokensForTokens                                  | External           | ✓       | - |
|                           | swapTokensForExactTokens                                  | External           | ✓       | - |
|                           | swapExactETHForTokens                                     | External           | Payable | - |
|                           | swapTokensForExactETH                                     | External           | ✓       | - |
|                           | swapExactTokensForETH                                     | External           | ✓       | - |
|                           | swapETHForExactTokens                                     | External           | Payable | - |
|                           | quote                                                     | External           |         | - |
|                           | getAmountOut                                              | External           |         | - |
|                           | getAmountIn                                               | External           |         | - |
|                           | getAmountsOut                                             | External           |         | - |
|                           | getAmountsIn                                              | External           |         | - |
|                           |                                                           |                    |         |   |
| <b>IUniswapV2Router02</b> | Interface                                                 | IUniswapV2Router01 |         |   |
|                           | removeLiquidityETHSupportingFeeOnTransferTokens           | External           | ✓       | - |
|                           | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External           | ✓       | - |
|                           | swapExactTokensForTokensSupportingFeeOnTransferTokens     | External           | ✓       | - |

|                        |                                                        |                   |         |           |
|------------------------|--------------------------------------------------------|-------------------|---------|-----------|
|                        | swapExactETHForTokensSupporting<br>FeeOnTransferTokens | External          | Payable | -         |
|                        | swapExactTokensForETHSupporting<br>FeeOnTransferTokens | External          | ✓       | -         |
|                        |                                                        |                   |         |           |
| <b>amazingbabydoge</b> | Implementation                                         | ERC20,<br>Ownable |         |           |
|                        | <Constructor>                                          | Public            | ✓       | ERC20     |
|                        | <Receive Ether>                                        | External          | Payable | -         |
|                        | enableTrading                                          | External          | ✓       | onlyOwner |
|                        | airdropToWallets                                       | External          | ✓       | onlyOwner |
|                        | updateSwapTokensAtAmount                               | External          | ✓       | onlyOwner |
|                        | updateSwapEnabled                                      | External          | ✓       | onlyOwner |
|                        | updateBuyFees                                          | External          | ✓       | onlyOwner |
|                        | updateSellFees                                         | External          | ✓       | onlyOwner |
|                        | excludeFromFees                                        | Public            | ✓       | onlyOwner |
|                        | setAutomatedMarketMakerPair                            | External          | ✓       | onlyOwner |
|                        | _setAutomatedMarketMakerPair                           | Private           | ✓       |           |
|                        | updateMarketingWallet                                  | External          | ✓       | onlyOwner |
|                        | updateDevWallet                                        | External          | ✓       | onlyOwner |
|                        | updateBuyBackWallet                                    | External          | ✓       | onlyOwner |
|                        | isExcludedFromFees                                     | External          |         | -         |
|                        | _transfer                                              | Internal          | ✓       |           |
|                        | swapTokensForEth                                       | Private           | ✓       |           |
|                        | addLiquidity                                           | Private           | ✓       |           |
|                        | swapBack                                               | Private           | ✓       |           |

# Contract Flow



## Domain Info

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Domain Name</b>            | amazingbabydoge.com                                               |
| <b>Registry Domain ID</b>     | 2704487104_DOMAIN_COM-VRSN                                        |
| <b>Creation Date</b>          | 2022-06-17T09:56:36Z                                              |
| <b>Updated Date</b>           | 2022-06-17T10:01:55Z                                              |
| <b>Registry Expiry Date</b>   | 2023-06-17T09:56:36Z                                              |
| <b>Registrar WHOIS Server</b> | whois.hostinger.com                                               |
| <b>Registrar URL</b>          | <a href="https://www.hostinger.com">https://www.hostinger.com</a> |
| <b>Registrar</b>              | Hostinger, UAB                                                    |
| <b>Registrar IANA ID</b>      | 1636                                                              |

The domain has been created 17 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

Amazing BabyDoge Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 10% fees.

## Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Cyberscope team disclaims any liability for the resulting losses.

## About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>