

EVM Charts 2024: What's hot? What's not?

[Dominic Brütsch](#)

The Datasets

Devcon VI

100,800 blocks / 2 weeks
October 2022

Devcon VII

100,800 blocks / 2 weeks
October 2024



The Most Popular Opcodes

Devcon VI

PUSH1	5.41 billion / 11.4%
PUSH2	4.34 billion / 9.2%
JUMPDEST	3.39 billion / 7.1%
POP	3.19 billion / 6.7%
SWAP1	2.58 billion / 5.4%

Devcon VII

PUSH1	6.15 billion / 10.9%
PUSH2	5.12 billion / 9.1%
JUMPDEST	4.03 billion / 7.1%
POP	3.71 billion / 6.6%
SWAP1	2.86 billion / 5.1%



The Least Popular Opcodes

Devcon VI

PUSH26	12,392 times
EXTCODECOPY	10,641 times
INVALID	5,689 times
LOGO	577 times
CALLCODE	7 times

Devcon VII

CREATE	14,231 times
INVALID	4,277 times
EXTCODECOPY	2,857 times
GASLIMIT	1,803 times
CALLCODE	28 times



The New Opcodes

	Executions	Used by	Added
PUSH0	369.7 million	22.498 contracts	April 2023
MCOPY	1.2 million	1080 contracts	March 2024
TSTORE	706.8 thousand	149 contracts	March 2024
TLOAD	557.2 thousand	149 contracts	March 2024
BLOBBASEFEE	159.4 thousand	10 contracts	March 2024
BLOBHASH	22.5 thousand	2 contracts	March 2024



What about Precompiles?



The Most Popular Precompiles

Devcon VI

ECRECOVER	2.06 million / 86.3%
SHA2-256	151.5 thousand / 6.3%
IDENTITY	87.1 thousand / 3.7%

Devcon VII

ECRECOVER	1.70 million / 38.8%
SHA2-256	1.64 million / 37.5%
IDENTITY	614.7 thousand / 14.0%



The Least Popular Precompiles

Devcon VI

ECPAIRING	2,457 times
BLAKE2F	205 times
RIPEMD-160	24 times

Devcon VII

ECPAIRING	18,212 times
BLAKE2F	3,782 times
RIPEMD-160	122 times

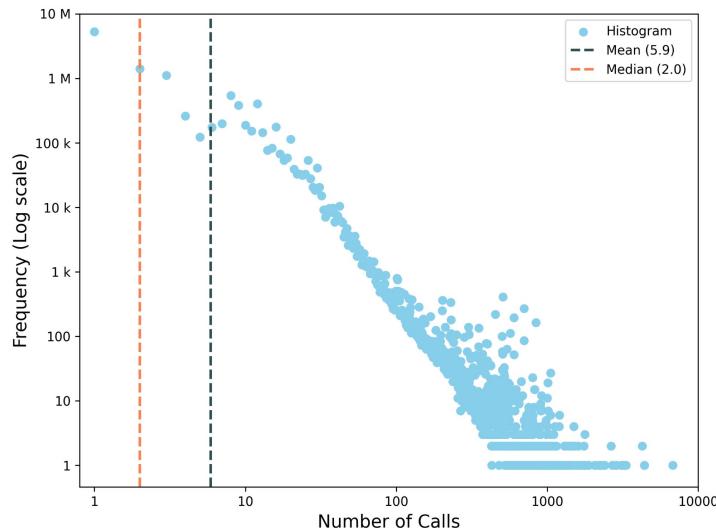


Transaction Complexity

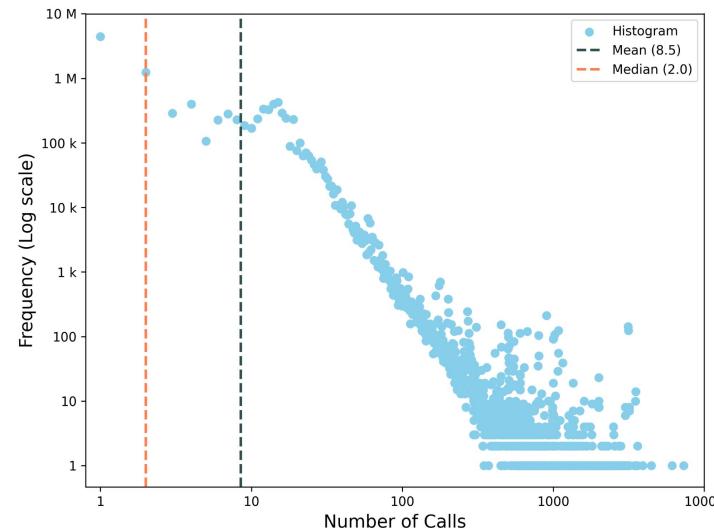


The Number of Calls per Transaction

Devcon VI

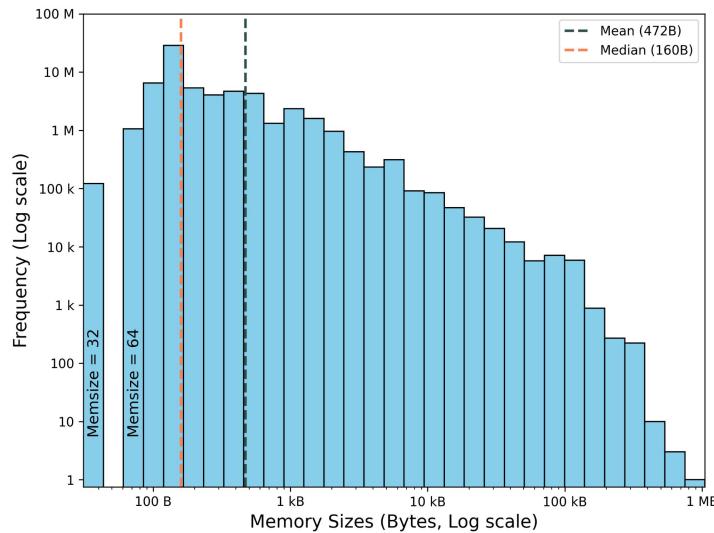


Devcon VII

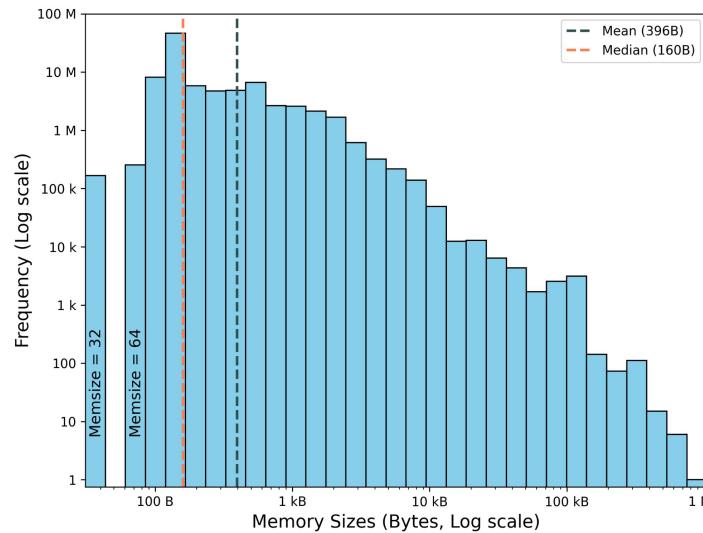


Memory Consumption per Call

Devcon VI



Devcon VII



Summary

- PUSH0 super hot
- ECRECOVER used less
- More calls per transaction

For full details:

- <https://www.chainsecurity.com/blog>



Shout-out to reth for data collection



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“Number rules the universe.”
— Pythagoras

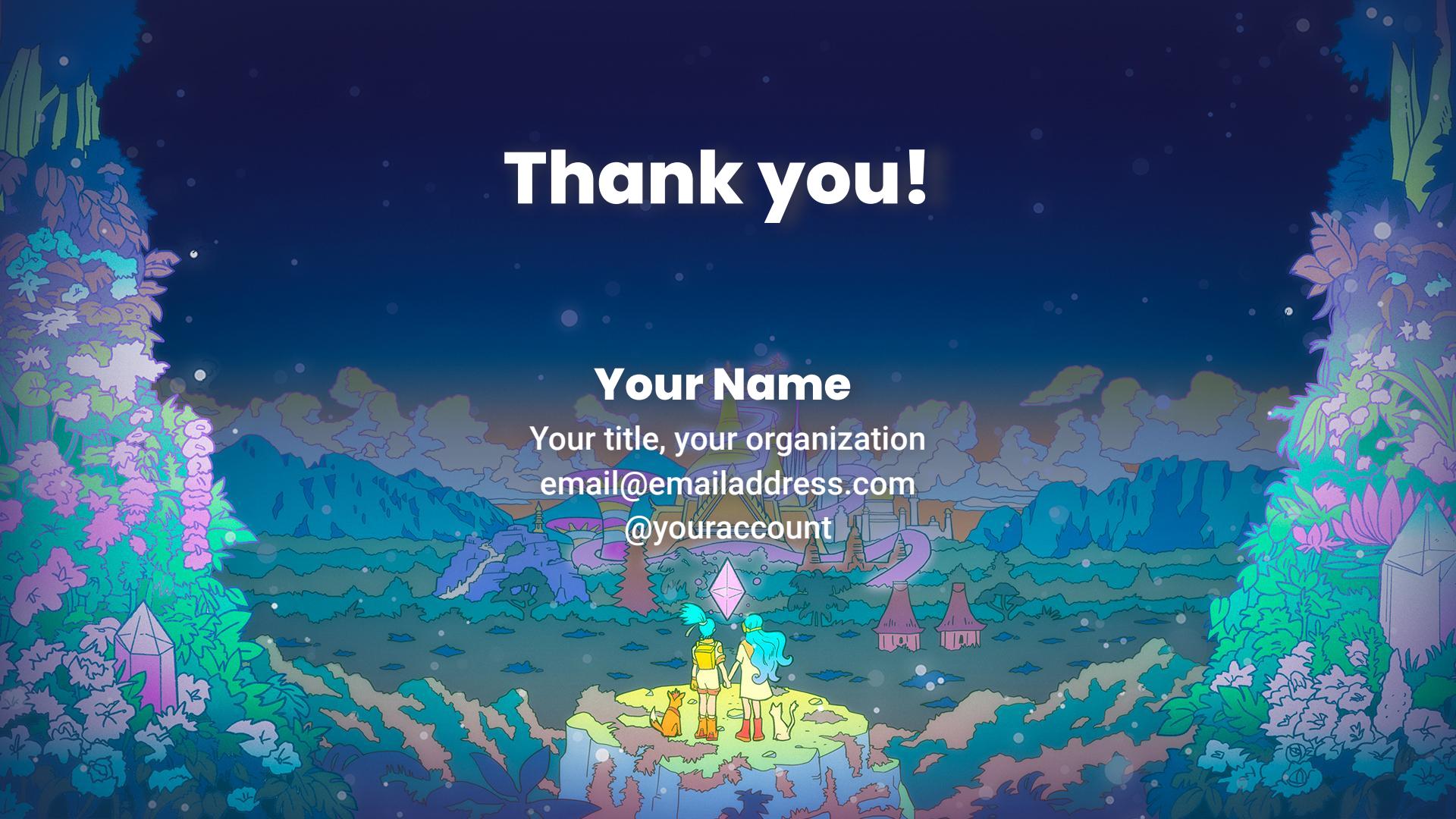
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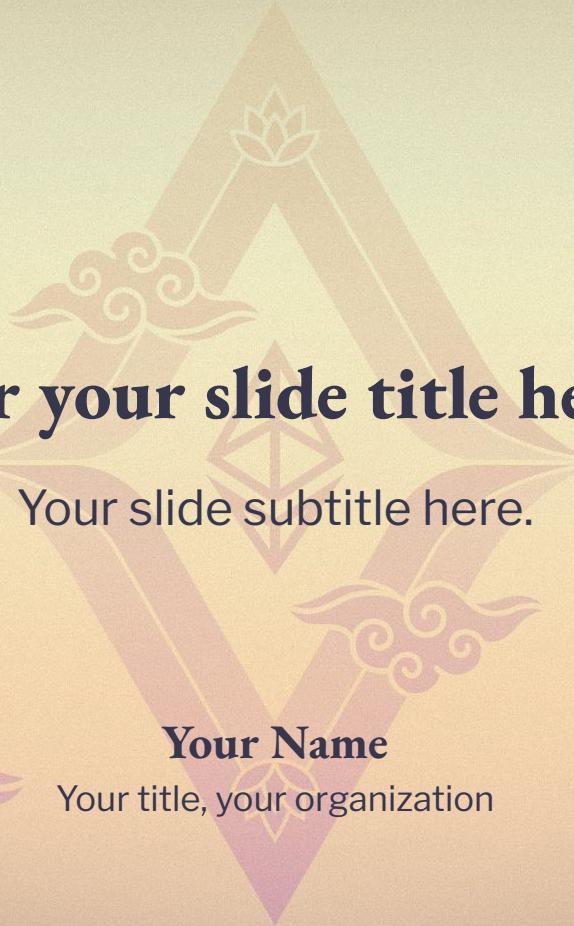
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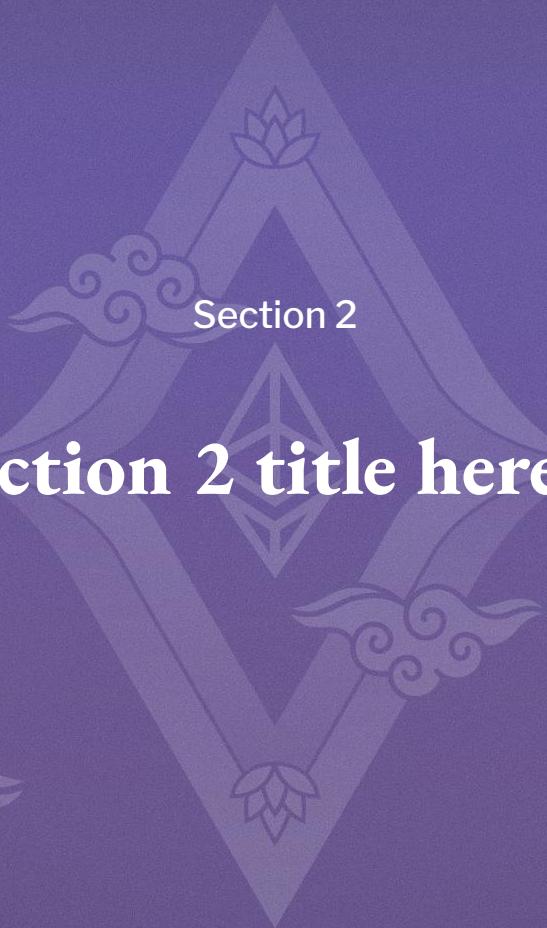
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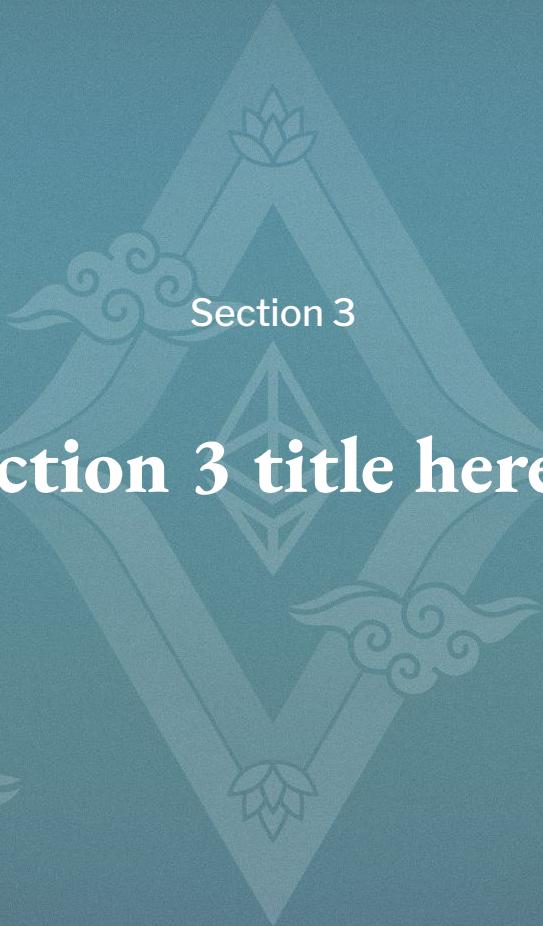


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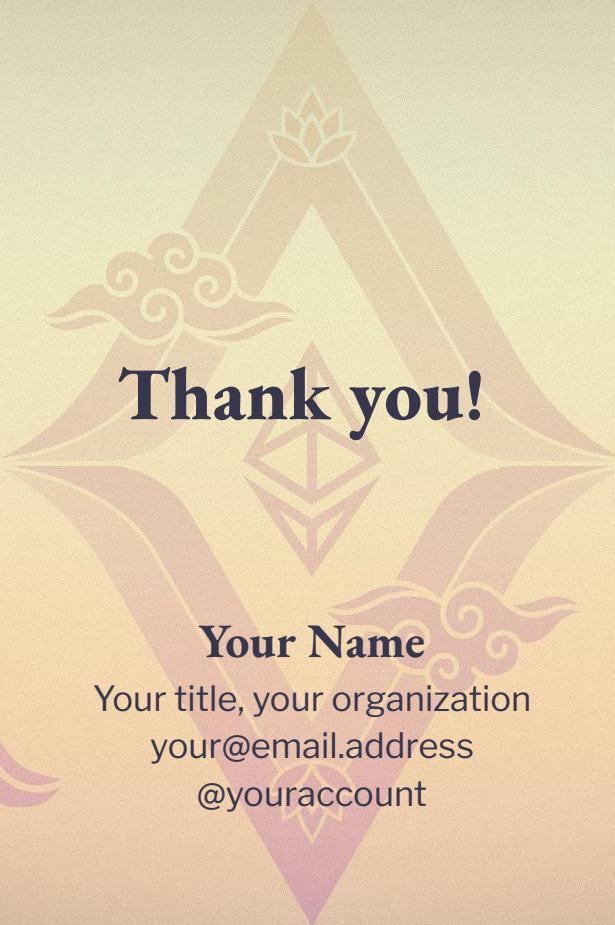


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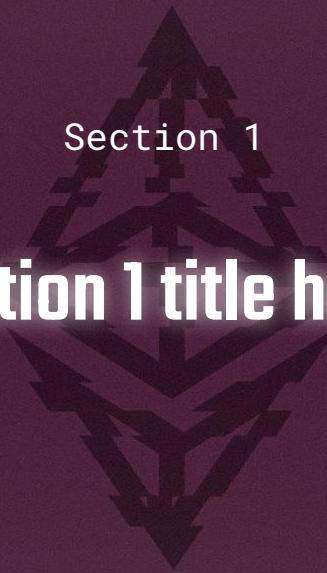


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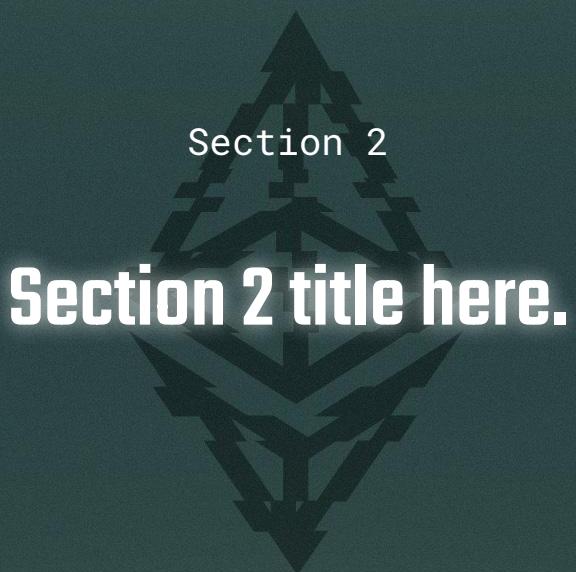
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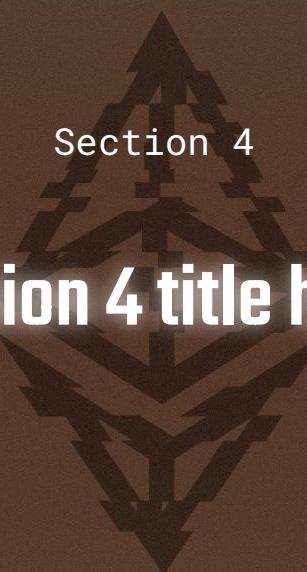
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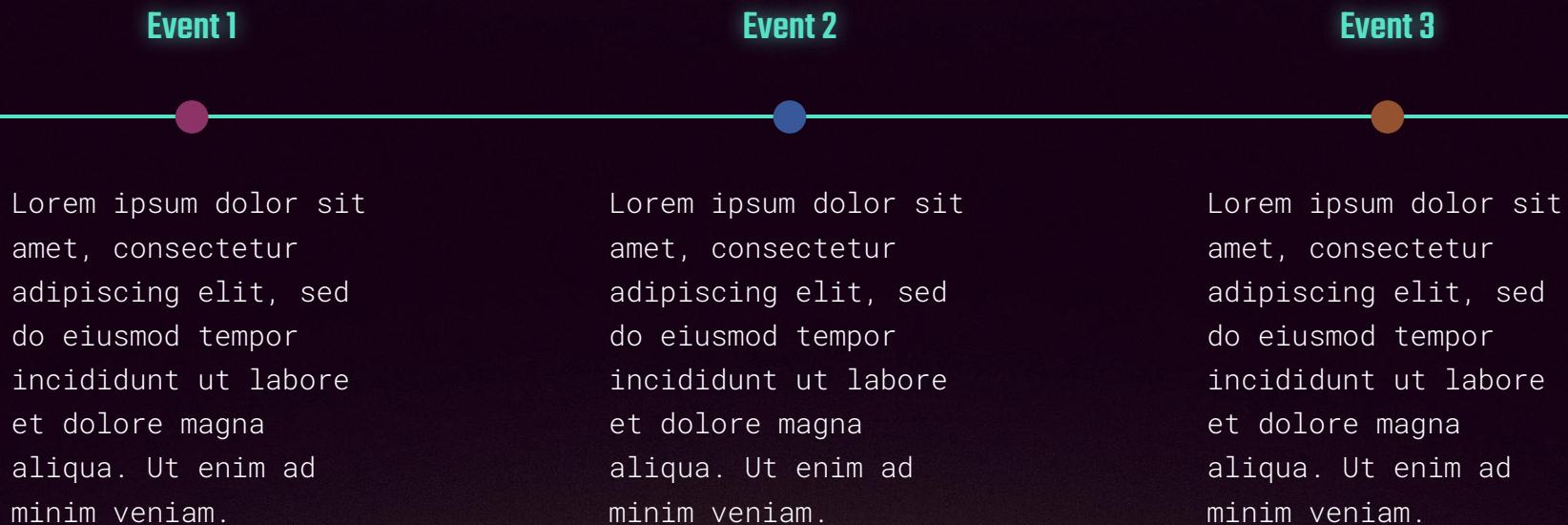
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