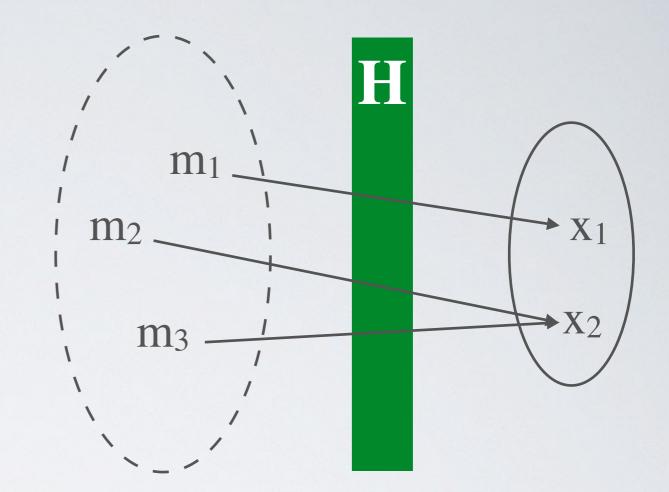
Cryptographic Hash Functions and Message Authentication Code

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Cryptographic Hashing



H(m) = x is a hash function if

- H is one-way function
- m is a message of any length
- x is a message digest of a fixed length
- \rightarrow H is a lossy compression function necessarily there exists x, m₁ and m₂ | H(m₁) = H(m₂) = x