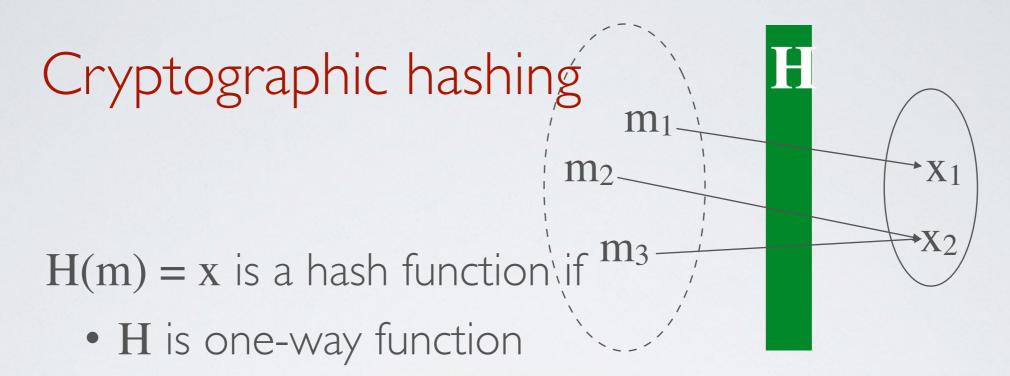
Message digests

Message digests are meant for creating fingerprints of messages

- <u>Un-keyed</u> message digest: hashes, checksum
- Keyed message digests : MACs



- m is a message of any length
- x is a message digest of a fixed length
- → H is a lossy compression function necessarily there exists x, m_1 and $m_2 \mid H(m_1)$ = $H(m_2) = x$