Chord

- Developers: I. Stoica, D. Karger, F. Kaashoek, H.
 Balakrishnan, R. Morris, Berkeley and MIT
- Intelligent choice of neighbors to reduce latency and message cost of routing (lookups/inserts)
- Uses *Consistent Hashing* on node's (peer's) address
 - SHA-1(ip_address,port) \rightarrow 160 bit string
 - Truncated to *m* bits
 - Called peer *id* (number between 0 and $2^m 1$)
 - Not unique but id conflicts very unlikely
 - Can then map peers to one of 2^m logical points on a circle