

BitTorrent (2)

- File split into blocks (32 KB – 256 KB)
- Download **Local Rarest First** block policy: prefer early download of blocks that are least replicated among neighbors
 - Exception: New node allowed to pick one random neighbor: helps in bootstrapping
- **Tit for tat** bandwidth usage: Provide blocks to neighbors that provided it the best download rates
 - Incentive for nodes to provide good download rates
 - Seeds do the same too
- **Choking**: Limit number of neighbors to which concurrent uploads \leq a number (5), i.e., the “best” neighbors
 - Everyone else choked
 - Periodically re-evaluate this set (e.g., every 10 s)
 - **Optimistic unchoke**: periodically (e.g., ~30 s), unchoke a random neighbor – helps keep unchoked set fresh