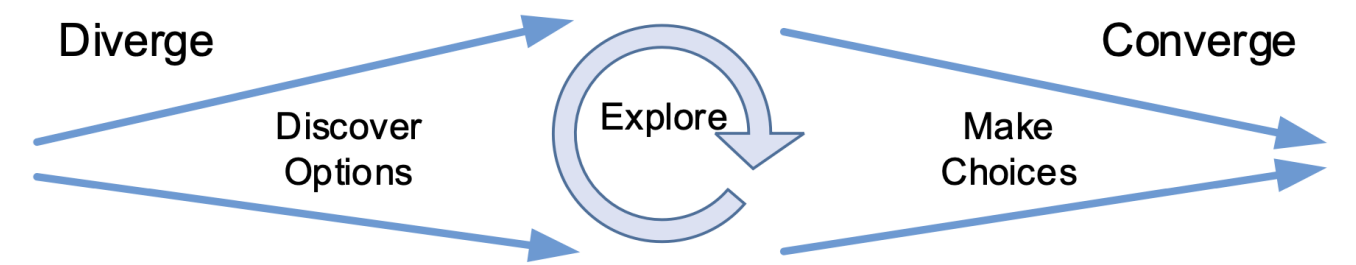


Chapter 6 - Choose an Architecture (Before It Chooses You)



decision matrix - tool for summarizing the trade-off analysis among architecture design options

List properties used for analysis

Architecture design options

| | Option A | Option B | Option C |
|------------|----------|----------|----------|
| Property 1 | Inhibits | - | ↓ |
| Property 2 | Promotes | + | ↑ |
| Property 3 | Neutral | 0 | → |

Your assessment

To use a decision matrix, list properties you plan to use for the analysis in the first column of a table. Each row represents a particular property. Each column represents your analysis of a design option.

Decision Matrix Example

Project Lionheart Decision Matrix

| | 3-Tier | Publish - Subscribe | Service Oriented |
|---|--------|------------------------|---------------------|
| Availability (Database unavailable) | + | ○ | + |
| Availability (Uptime requirements) | ○ | ○ | ○ |
| Performance (5-second response time) | ○ | - | + |
| Security | ○ | - | ○ |
| Scalability (5% annual growth) | ○ | ○ | + |
| Maintainability (Team knowledge) | + | - | ○ |
| Buildability (Implementation risks) | ++ | - | -- |

Legend

| | | | | | |
|-------------------|----|-------------------|----|---------|---|
| Strongly Promotes | ++ | Strongly Inhibits | -- | Neutral | ○ |
| Promotes | + | Inhibits | - | | |