The asynchronous task life cycle

```
                              ┌───────────────────┐
                         ────►│  Wait for events  │
                        │     └───────────────────┘
                        │              │
                        │   All input events    Some input events    Some input
                        │   completed well       were canceled       event errors
                        │       │                      │                 │
                        │       ▼                      │                 │
                        │  ┌──────────────┐            │                 │
                        │  │ Perform work │            │                 │
Need to wait ──────────┤  └──────────────┘            │                 │
for other tasks         │       │                      │                 │
                        │  Work finished    An exception                 │
                        │  successfully     was raised                   │
                        │     │                │                         │
                        │     ▼                ▼        ▼                 ▼
```

| Mark as done | Record + mark error | Mark as canceled | Propagate error |

                              │
                              ▼

| Terminate task |