

## HTTP Status Code Comparison: 102 Processing vs 202 Accepted

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### 1. Overview

Both `102 Processing` and `202 Accepted` are HTTP status codes indicating that a request has been received, but their usage and implications differ significantly. Here's a breakdown of the differences.

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### 2. 102 Processing (WebDAV)

- **Meaning:** The server has received and is currently processing the request, but no final response is available yet.
- **Status Type:** *Interim response* (1xx series).
- **Typical Use Case:** Used with **WebDAV** for long-running operations like copying or moving large files.
- **Purpose:** Informs the client to keep the connection alive and prevents timeouts.
- **Behavior:**
  - Not a final status code.
  - A final response (like 200, 207, etc.) will follow.

**Example Scenario:** Client issues a WebDAV `COPY` request to copy a large directory. Server responds with `102 Processing` while the operation continues.

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### 3. 202 Accepted

- **Meaning:** The request has been accepted for processing, but the processing has not been completed yet.
- **Status Type:** *Final response* (2xx series).
- **Typical Use Case:** Used for **asynchronous processing** like submitting a job or task to a queue.
- **Purpose:** Indicates the server has received the request and will process it later.
- **Behavior:**
  - No immediate result available.
  - Client needs to query or get notified of the outcome later (polling or callbacks).

**Example Scenario:** Client submits a video to an encoding service. Server replies with `202 Accepted`, meaning the video is in a processing queue.

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### 4. Comparison Table

Feature	102 Processing	202 Accepted
<b>Type</b>	Interim response	Final response
<b>HTTP Series</b>	1xx	2xx

Feature	102 Processing	202 Accepted
<b>Use Case</b>	WebDAV, long tasks	Async APIs, job queues
<b>Processing Status</b>	Ongoing	Scheduled for later
<b>Client Action</b>	Wait for final response	Check later or get notified
<b>Follow-up Needed?</b>	Yes, expect final status	Yes, but not provided by default

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## 5. Summary

- Use `102 Processing` to keep the client informed during ongoing processing within the same connection.
- Use `202 Accepted` when the processing is offloaded or asynchronous, and the response will not contain the final result.

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Let us know if you need real API examples or implementation tips!