

# REST API Cheat Sheet

<https://brcline.com>

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Versioning	Status Codes																												
<p>MAJOR.MINOR.PATCH</p> <p>Versioning in URL:  <a href="https://api.example.com/v1/books/1">https://api.example.com/v1/books/1</a></p> <p>Versioning in HTTP Header:            Accept: application/json; version=1</p>	<p>1xx- Informational Request.            2xx- Request was successful.            3xx- Request was Redirected. Rarely used.            4xx- Client Errors (often codes like 401, 404)            5xx- Server problem (most often 500).</p> <table border="1"> <thead> <tr> <th>Code</th> <th>English Meaning</th> </tr> </thead> <tbody> <tr><td>200</td><td>Okay. Resource in body.</td></tr> <tr><td>201</td><td>Created. Should return created resource in body.</td></tr> <tr><td>202</td><td>Accepted. Not always used.</td></tr> <tr><td>203</td><td>Normally used for caching.</td></tr> <tr><td>400</td><td>Bad request.</td></tr> <tr><td>401</td><td>Unauthorized/Invalid Token or API key.</td></tr> <tr><td>402</td><td>Payment Required.</td></tr> <tr><td>403</td><td>You don't have access to resource.</td></tr> <tr><td>404</td><td>Not found. Resource is missing.</td></tr> <tr><td>405</td><td>Method not allowed.</td></tr> <tr><td>422</td><td>Unprocessable entity. Missing fields OR invalid XML or JSON.</td></tr> <tr><td>429</td><td>Too many requests. Rate limiting.</td></tr> <tr><td>500</td><td>Internal Server Error</td></tr> </tbody> </table>	Code	English Meaning	200	Okay. Resource in body.	201	Created. Should return created resource in body.	202	Accepted. Not always used.	203	Normally used for caching.	400	Bad request.	401	Unauthorized/Invalid Token or API key.	402	Payment Required.	403	You don't have access to resource.	404	Not found. Resource is missing.	405	Method not allowed.	422	Unprocessable entity. Missing fields OR invalid XML or JSON.	429	Too many requests. Rate limiting.	500	Internal Server Error
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<p><b>Consistent URI</b></p> <p>Simple is better            Plural for resources, noun based</p> <p>Get all books: GET: /v1/books            Get specific book: GET: /v1/books/1</p>																													
<p><b>Methods</b></p> <p>GET to retrieve a resource;            PUT to change the state of or update a resource, which can be an object, file or block;            POST to create that resource; and            PATCH – update/modify            DELETE to remove it.</p> <table border="1"> <thead> <tr> <th>VERB</th> <th>Standard Return Codes</th> </tr> </thead> <tbody> <tr> <td>GET</td> <td>200, 401, 403, 404</td> </tr> <tr> <td>POST</td> <td>200 (should be 201), 201, 401, 403, 404,422</td> </tr> <tr> <td>PUT</td> <td>200, 401, 403, 404,422</td> </tr> <tr> <td>PATCH</td> <td>200,401,403,404,422</td> </tr> <tr> <td>DELETE</td> <td>204,401,403,404,422</td> </tr> </tbody> </table>	VERB	Standard Return Codes	GET	200, 401, 403, 404	POST	200 (should be 201), 201, 401, 403, 404,422	PUT	200, 401, 403, 404,422	PATCH	200,401,403,404,422	DELETE	204,401,403,404,422																	
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<p><b>Errors</b></p> <p>Always Respond in same format as HTTP Accept Request</p> <p>HTTP/1.1 401 Unauthorized            Content-Type: application/json  <pre>{   "errorCode": "401"   "message": "Unauthorized. You are not logged in." }</pre></p>	<p><b>Authentication/Authorization</b></p> <p>Basic: username + password encoded as base64            Authorization: "Basic YnJpYW5QHNzd29yZDEq"</p> <p>Bearer/token: tokens called bearer tokens. Often JWT            Authorization: Bearer someCrypticString</p> <p>API keys: unique value used only by one customer            Often done as query string. Not very secure when in query string.</p>																												