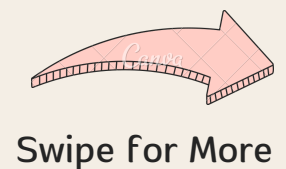


# What is Rest api?



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# ReST

**RE**presentational  
State  
Transfer



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**Wow! I didn't get  
anything**

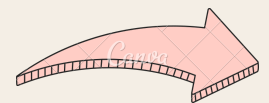
REpresentational ?

State ?

Transfer ?



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REST is an architectural style for developing web services. REST is popular due to its simplicity and the fact that it builds upon existing systems and features of the internet's Hypertext Transfer Protocol (HTTP) in order to achieve its objectives, as opposed to creating new standards, frameworks and technologies.



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In a REST based architecture everything is a Resource. Every resource should support the HTTP common operations. REST resources can be text, XML, JSON etc. REST is used heavily in distributed system because any request can be directed to any instance of a component.



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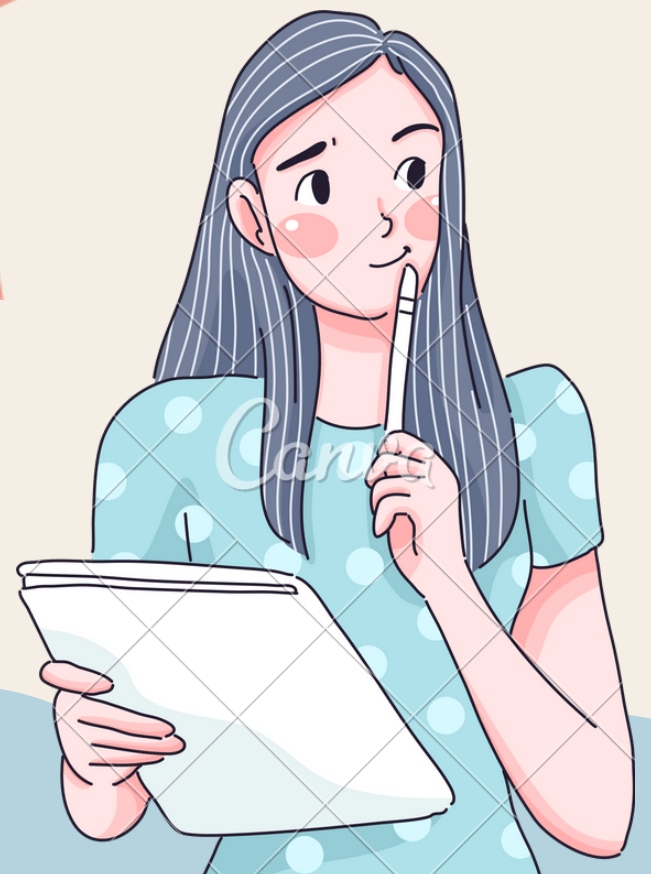


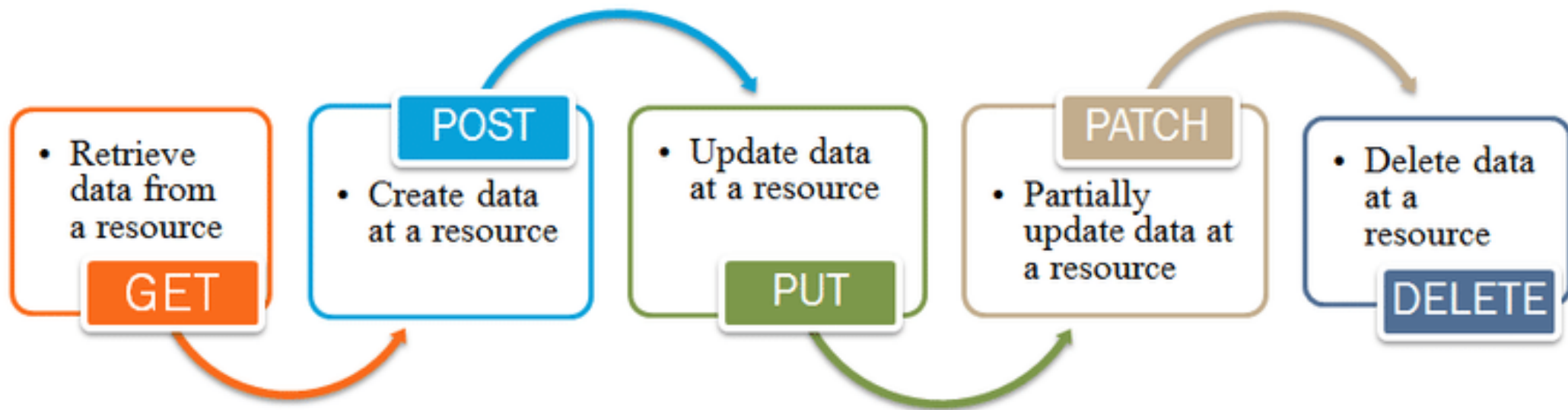
# What are the different methods supported by Rest?



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**What are the  
numerical return  
values in Rest  
apis?**



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# HTTP Status Codes

## Level 200 (Success)

200 : OK

201 : Created

203 : Non-Authoritative  
Information

204 : No Content

## Level 400

400 : Bad Request

401 : Unauthorized

403 : Forbidden

404 : Not Found

409 : Conflict

## Level 500

500 : Internal Server Error

503 : Service Unavailable

501 : Not Implemented

504 : Gateway Timeout

599 : Network timeout

502 : Bad Gateway



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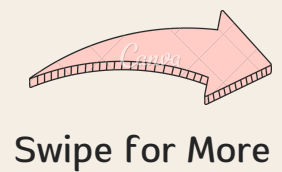
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**Any tips for writing  
good REST apis?**



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Don't use verbs, use nouns in the api. Like use `"/users"` and not `"/getAllCars"`

Do not mix up singular and plural nouns. Keep it simple and use only plural nouns for all resources.

Use PUT, POST and DELETE to alter the resource and GET method to get the resource

Use sub-resources for relation. To get all books in library with Id 2, use GET `/library/2/books/`

Impose API Version and do not release an unversioned API.



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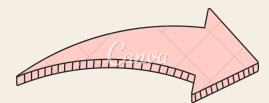


# Thank you

It was really helpful. Now I can sleep peacefully



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