



POSTMAN


Understanding the importance of API standards from the perspective of API design



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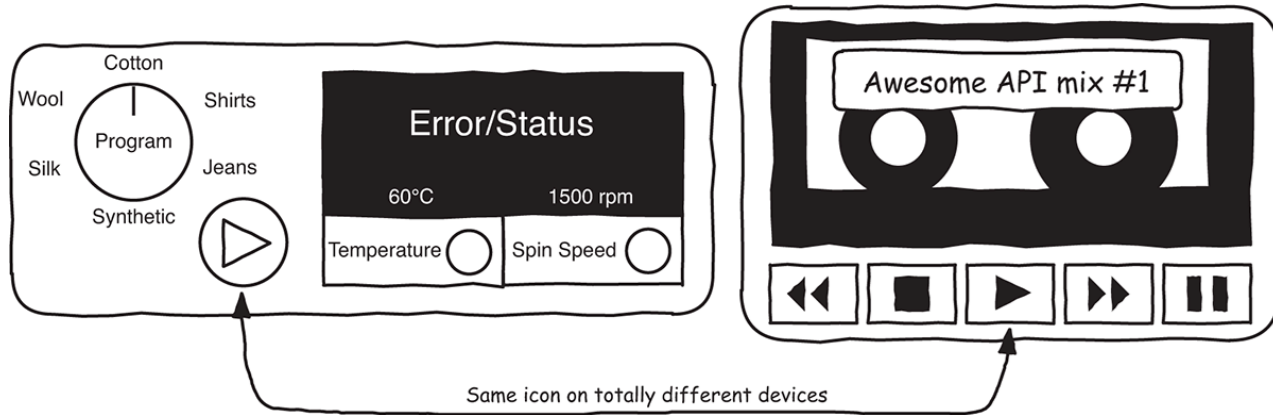
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From familiarity to standardization



Source: *The Design of Web APIs*, Arnaud Lauret, Manning





What is a “standard” API?





An API following some API standard/guidelines

- A mix of customs and actual standards
- Customs (Organization, Domain, Global) 
- Actual standards
 - Community (JSON:API, ...)
 - Technological standards (IETF, HTTP, RFC7807, ...) 
 - General and domain standards (ISO, ISO8601, ISO20022, ...)





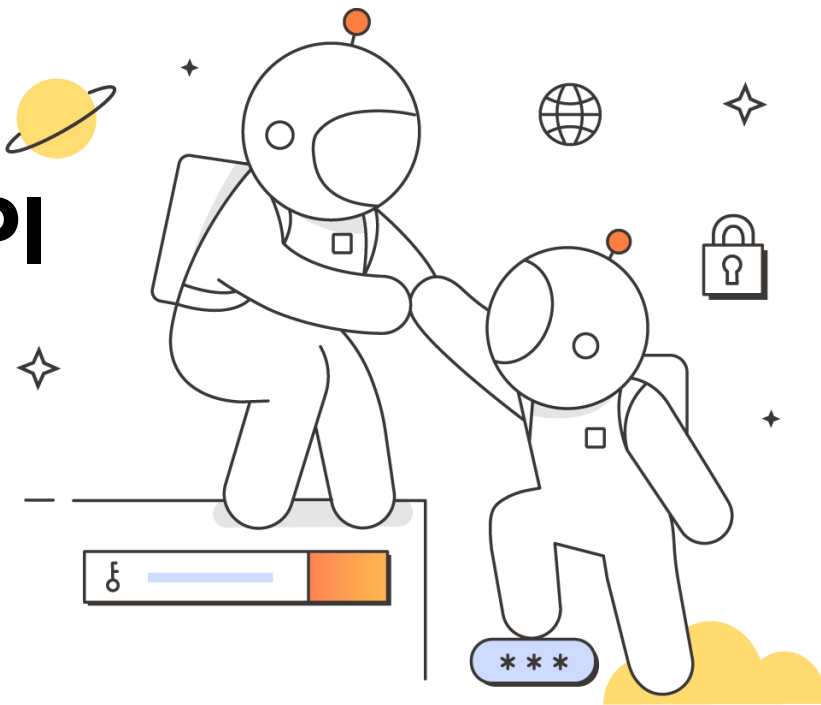
A fully fledged actual or de-facto standard API

- **Actual Standards**
 - **FHIR® (Fast Healthcare Interoperability Resources)**
 - **PSD2 (Payment Service Directive 2)**
- **De-facto standards**
 - **AWS S3**
- **Relying on standards**





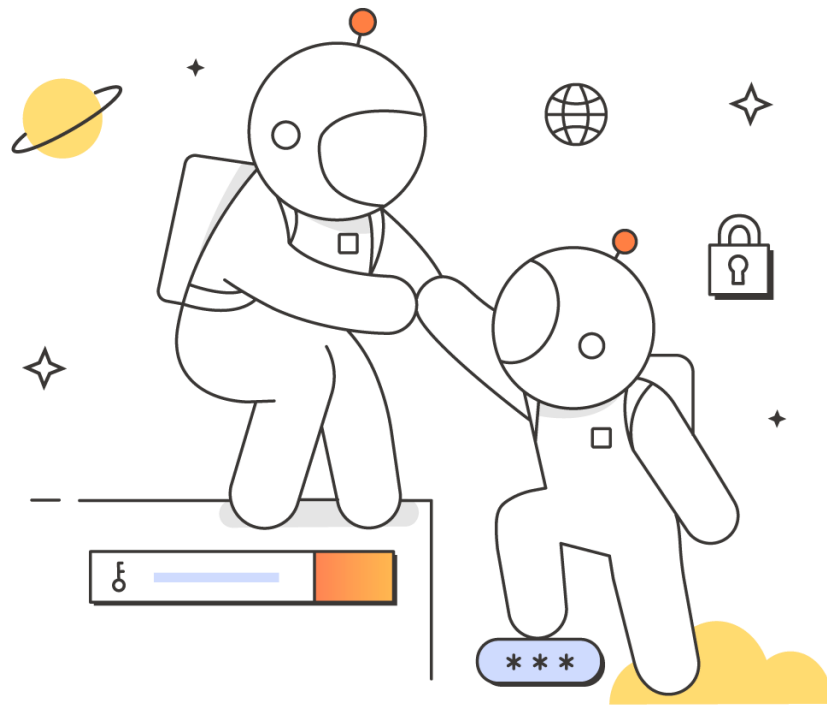
The benefits of API standardization





The benefits of API standardization for API users

- **Developer experience**
- **Productivity, quality, less errors**
- **Happiness and trust**





The benefits of API standardization for API creators

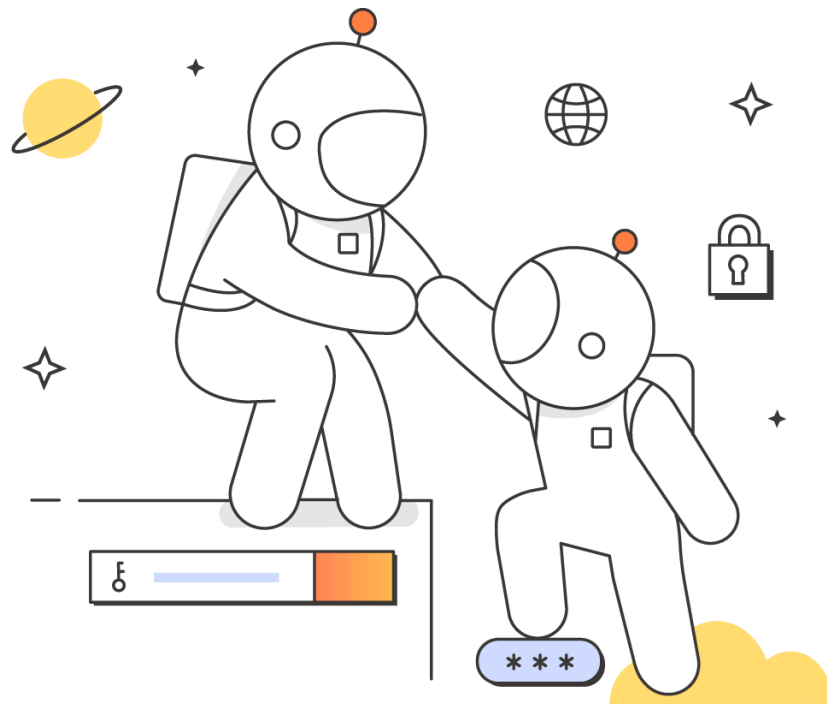
- **More value**
- **Designer/creator experience**
- **Productivity, quality, less errors**





The benefits of API standardization for the (API) ecosystem

- **Interconnection simplicity**
- **High-level interoperability**
- **Fostering growth and innovation**





The challenges of establishing and using API standards

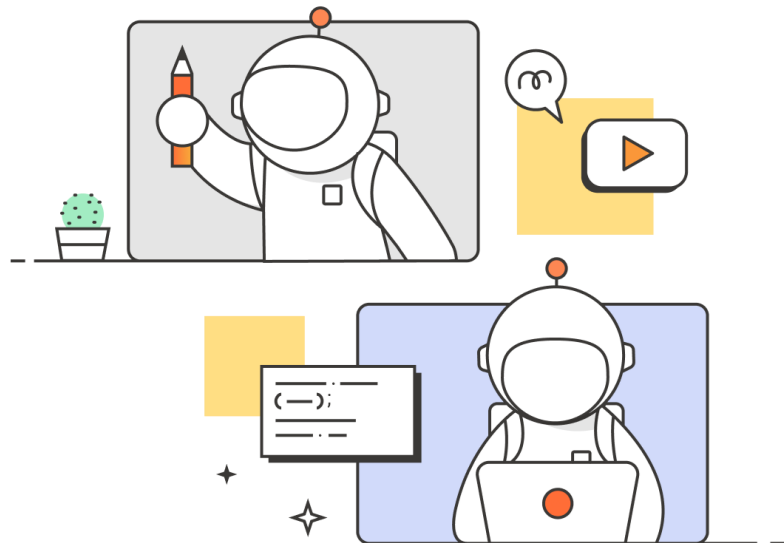




The challenges of using APIs leveraging standards

- Needs fulfillment

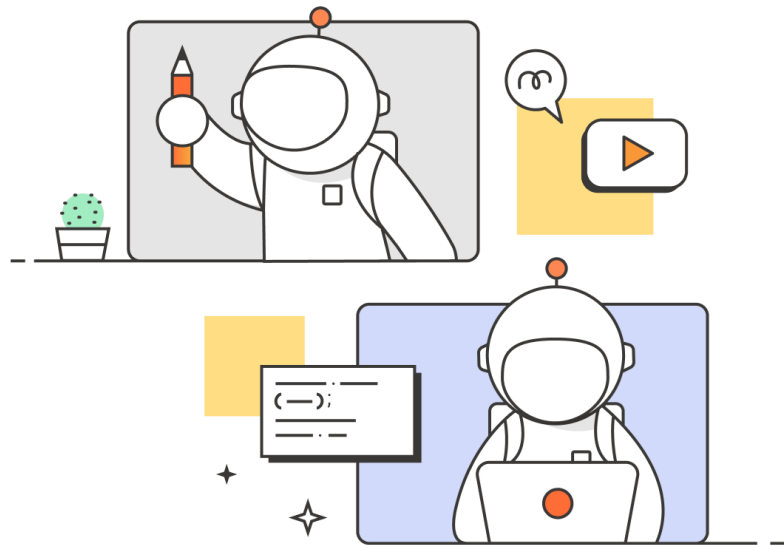
- User-friendliness and efficiency





The challenges of using API standards when creating APIs

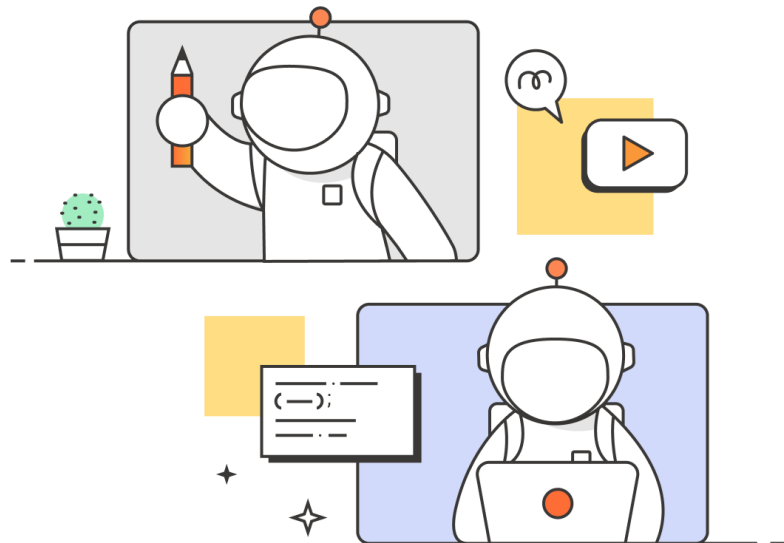
- **Discoverability**
- **User-friendliness and implementation**
- **Extensibility**
- **Standard API vs. right API**





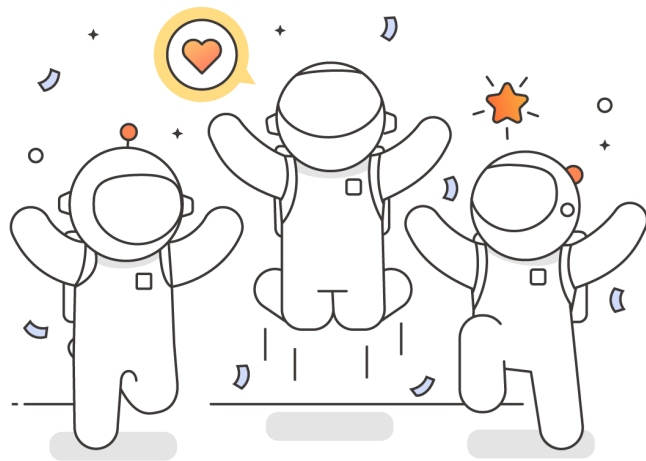
The challenges of establishing API standards

- **Defining useful, usable, reasonable, realistic and accepted standards not reinventing the wheel**
- **Not forgetting users and end-users**
- **Fostering adoption**
- **Dealing with evolutions**





Beyond bringing interoperability, standards must solve actual problems in a user-friendly way





Thank you

