1. HTTP Client <----> Server ypertext Transfer Proto 2. AJAX(Asynchronous JavaScript And XML) 1) XHR(XMLHttpRequest) Object fetch() AP 2) fetch() API -> IE(x) 3) XML 4) JSON(JavaScript Object Notation) © ECMAScript 3rd 1999 ⑤ Object { key:value } √ simplest data interchange format ✓ lightweight text-based structure √ easy to read √ key-value pairs ✓ used for serialization and transmission of data between the network the network connection ✓ independent programming language and platform { key:value } Client <----> Server { key:value } // (1) Object to JSON serialize Object -----> String(JSON) // stringfy(obj) // (2) JSON to Object deserialize Object <----- String(JSON)</pre> // parse(json)

☑ JSON(JavaScript Object Notation)

```
// (1) Object to JSON
// stringfy(obj)
let json = JSON.stringify(true);
console.log(json);
json = JSON.stringify(['apple', 'banana']);
console.log(json);
const rabbit = {
  name: 'tori',
  color: 'white',
  size: null,
 birthDate: new Date(),
 //symbol: Symbol('id'),
  jump: () => {
   console.log(`${name} can jump!`);
 },
};
json = JSON.stringify(rabbit);
console.log(json);
json = JSON.stringify(rabbit, ['name', 'color', 'size']);
console.log(json);
json = JSON.stringify(rabbit, (key, value) => {
  console.log(`key: ${key}, value: ${value}`);
  //return value;
 return key === 'name' ? 'ecom01' : value;
});
console.log(json);
// (2) JSON to Object
// parse(json)
console.clear();
json = JSON.stringify(rabbit);
console.log(json);
//const obj = JSON.parse(json);
const obj = JSON.parse(json, (key, value) => {
  console.log(`key: ${key}, value: ${value}`);
  return key === 'birthDate' ? new Date(value) : value;
});
```

```
console.log(obj);
rabbit.jump();
//obj.jump(); --> error

console.log(rabbit.birthDate.getDate());
//console.log(obj.birthDate.getDate()); --> error[getDate()는 string이기 때문]
console.log(obj.birthDate);
console.log(obj.birthDate.getDate());

JSON Diff checker: http://www.jsondiff.com/

JSON Beautifier/editor: https://jsonbeautifier.org/
JSON Parser: https://jsonparser.org/

JSON Validator: https://tools.learningcontainer.com/j...
```