

# Pemrograman Web Lanjut

## #Overview



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# JSON

```
{
  "photos": {
    "page": 1,
    "pages": 94276,
    "perpage": 15,
    "total": "1414129",
    "photo": [{
      "id": "3891667770",
      "owner": "35468133120@N01",
      "secret": "4479baebf9",
      "server": "2451",
      "farm": 3,
      "title": "Mexican train dominoes with Brian and Michelle",
      "ispublic": 1,
      "isfriend": 0,
      "isfamily": 0
    },
    {
      "id": "3891661852",
      "owner": "10640301@N07",
      "secret": "79de502257",
      "server": "2590",
      "farm": 3,
      "title": "peaches",
      "ispublic": 1,
      "isfriend": 0,
      "isfamily": 0
    }
  ]
}
```

# JSON

**JavaScript Object Notation**

# JSON

- Lightweight data-interchange format
  - Easy for human
  - Easy for machine
- More about it: <http://json.org/>

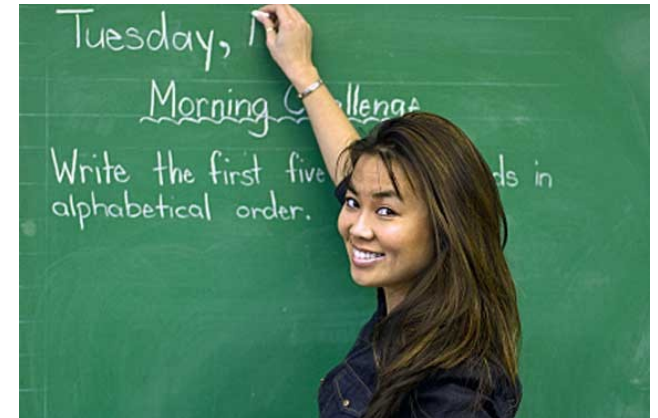


# JSON – Grammar

*object*  
    { }  
    { *members* }  
*members*  
    *pair*  
    *pair* , *members*  
*pair*  
    *string* : *value*  
*array*  
    [ ]  
    [ *elements* ]  
*elements*  
    *value*  
    *value* , *elements*  
*value*  
    *string*  
    *number*  
    *object*  
    *array*  
    **true**  
    **false**  
    **null**

## EXAMPLE:

```
{
  success: true,
  items: [
    {
      title: "Operation Take Down",
      desc: "Hacking"
    },
    {
      title: "Princess Mononoke",
      desc: "Adventure"
    }
  ]
}
```



# JSON – When?

- You want to send the value of complex PHP variable through AJAX
- You want to send more than one data at once
- You have custom data format which is not just as simple as string



# JSON & PHP

- Produce JSON:

<http://www.php.net/manual/en/function.json-encode.php>

- Parse JSON:

<http://www.php.net/manual/en/function.json-decode.php>



# JSON & PHP

```
<?php
// you can get the $items from the database (fetched from model)
$items = array(
    array("title"=>"Operation Take Down", "desc"=> "Hacking"),
    array("title"=>"Princess Mononoke", "desc"=> "Adventure")
);
$data = array(
    "success" =>true,
    "items"=> $items
);
echo json_encode($data);
?>
```



# JSON & AJAX

```
$.ajax({  
  url: "blog/get_content",  
  type: "POST",  
  dataType: "json",  
  data: {"keyword" : $("#input_keyword").val()},  
  success: function(response){  
    if(response.success){  
      var items = response.items;  
      for(var i=0; i<items.length; i++){  
        $("#result").append("<b>" + item[i].title + "</b><br />");  
        $("#result").append("<p>" + item[i].desc + "</p><br />");  
      }  
    }else{  
      alert('something goes wrong');  
    }  
  }  
});
```

```
{  
  success: true,  
  items: [  
    {  
      title: "Operation Take Down",  
      desc: "Hacking"  
    },  
    {  
      title: "Princess Mononoke",  
      desc: "Adventure"  
    }  
  ]  
}
```



It's your turn



# Thank you

