

First we Make folder which our project..

Then in this folder we create composer.json

Then we write bellow code in to composer.json

```
{
  "repositories": [
    { "type": "composer", "url": "https://composer.typo3.org/" }
  ],
  "name": "Nitsan/composer-example",
  "description" : "A TYPO3 7 LTS example project with news.",
  "license": "GPL-2.0+",
  "require": {
    "typo3/cms": "^7.6",
    "typo3-ter/news": "^5.1", ## define here which extension you may like install
during setup
    "typo3-ter/powermail": "^3.6",
  },
  "extra": {
    "typo3/cms": {
      "cms-package-dir": "{$vendor-dir}/typo3/cms",
      "web-dir": "/"
    }
  },
  "autoload": {
    "psr-4": {
      "GeorgRinger\\News\\": "<FOLDER_NAME>/typo3conf/ext/news/Classes/"
    }
  }
}
```

Give permission of our folder

Then install composer for your project

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"
php -r "if (hash_file('SHA384', 'composer-setup.php') ===
'e115a8dc7871f15d853148a7fbac7da27d6c0030b848d9b3dc09e2a0388afed865e6a3d6b3c0
fad4 5c48e2b5fc1196ae') { echo 'Installer verified'; } else { echo 'Installer
corrupt'; unlink('composer-setup.php'); } echo PHP_EOL;"
php composer-setup.php
php -r "unlink('composer-setup.php');"
```

its take time if net going slow....

for install repositories write this command

```
php composer.phar install
```

now we access it by browser....

now we want to add new extension using composer ...like news

so add line in composer,json "typo3-ter/news": "^5.0",

now run this cammand in terminal composer require typo3-ter/news

sorry first you need to enter your project dir

like `cd /var/www/<your dir name >`

its easy to use....finish.....

Disadvantage :

- not possible in 7LTS extension manager ,
- developer must have to some knowledge of json
- we must define command OR we required extension list for our project
- if we require add another one extension then we must add in `composer.json` with it key
- then execute command in terminal

```
composer create-project typo3/cms-base-distribution <your-project-path>
```

```
composer require typo3-ter/<extension key>
```

1. Net Speed/Time

- if net speed slow then downloading speed very slow compare to regular setup of TYPO3

2. Live mode with composer, Extension should be install

- <https://wiki.typo3.org/Composer>
- <https://usetypo3.com/typo3-and-composer.html>

3. JASON Knowledge

- Important that define extension with it key OR version
- like `>> "typo3-ter/powermail": "^3.6",`
- ^ means that greater than define

4. Common Extension list

- If we know which which extension we required then we can install that extension during TYPO3 setup.

5. Upgrade Process

- its have command for upgrade
- `php composer.phar`