| **Topic** | **Elementary** | **Basic** | **Advanced** | **Expert** |
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| **Git** | | | | |
| **General** | 1. Know the benefits of **VCS**; 2. Know how to **set up** a repository;    1. git init;    2. git clone;    3. git config; 3. Know how to **save changes**:    1. git add;    2. git commit;    3. .gitignore; 4. Know how to **inspect a repository**:    1. git status; 5. Know how to **undo changes**:    1. git checkout; 6. Know how to **sync a repository**:    1. git remote;    2. git fetch;    3. git push;    4. git pull; 7. Know the difference between **local** copy and **remote** repositories, ways of synchronizing them; 8. Know what is a **tracking area**; 9. Know the purpose of .**readme** file; 10. Know how to **configure** the basic **user data** for the repository; | 1. Know how to **set up** a repository;    1. git alias; 2. Know how to **save changes**:    1. git diff;    2. git stash; 3. Know how to **inspect a repository**:    1. git tag;    2. git blame; 4. Know how to **undo changes**:    1. git clean;    2. git revert;    3. git reset;    4. git rm; 5. Know how to **rewrite history**:    1. git commit --amend;    2. git reflog; 6. Know what is a **branch** and why it’s needed; 7. Know how to use branches:    1. git branch;    2. git checkout;    3. git merge;    4. Merge conflicts; 8. Know the **Cherry Pick** command; 9. Know what is **credential storage** and it’s configuration; 10. Know what is a **pull**/**merge** **request**; 11. Be aware of **autocrlf** feature; 12. Know the basic **configuration file** aspects:     1. Config levels:        1. --local;        2. --global;        3. --system;     2. core.editor;     3. merge.tool;     4. color.ui, color\*;     5. remote;     6. user;     7. pull / push;     8. merge / mergetool, diff / difftool;     9. log;     10. http;     11. format;     12. credential;     13. commit; | 1. Know how to **rewrite history**:    1. git rebase;    2. git rebase -i; 2. **Merging** vs. **Rebasing**; 3. **Reset** vs. **Revert** vs. **Checkout**; 4. **Advanced logging**:    1. Formatting log output;    2. Git Filtering the commit history; 5. **Refs** and the **Reflog**:    1. Hashes;    2. Refs;    3. Packed / Special refs;    4. Refspecs;    5. Relative Refs: ~ vs ^;    6. The reflog; 6. Know the **merging strategies**.Understand what is a fast-forward merge. Be aware of available merge/diff tools; 7. Know the **branching strategies**, know the GitFlow:    1. Centralized workflow;    2. Feature branch workflow;    3. Gitflow workflow;    4. Forking workflow; 8. Know what is a **detached head** and how to solve this issue; 9. Know **git bisect** command (to find a commit that introduced a bug); | 1. Be aware of **Git LFS** feature; 2. Be aware of how **Prune** & **GC** works; 3. Know what is **git hooks**; 4. Be aware of **submodules** feature; 5. Be aware of **subtree** feature; |