#### Version Control and Git



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# Code Integration with Git



Any git provider

Must install git

http://git-scm.com/download

Connect to any local or remote repo

Can always use command line, too

### Code and Remote Online Git Providers

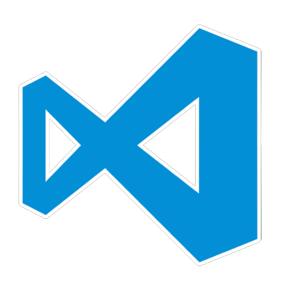
Github

**VS** Online

Bitbucket

Any git provider

## Touring VS Code's Git Features

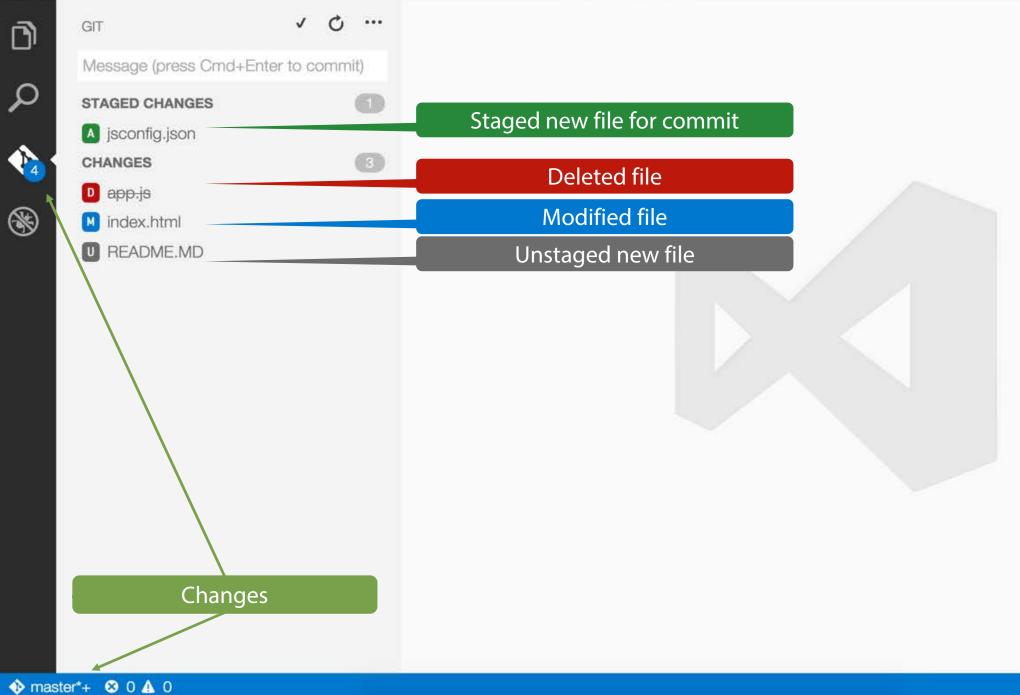


Git Viewlet

Status Bar

File gutter indicators

Output



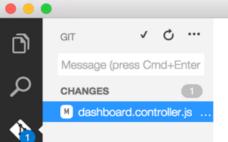
### **Git Credentials**

Authentication Required	
♦ git https://visualstudio.com	
Username	
Password	
OK Cancel	
How to set up a Credential Helper	

http://jpapa.me/gitcredhelper

#### Diffs

Shows textual changes in a file with red/green



8

```
dashboard.controller.js src/client/app/dashboard - Changes on working tree
        1 (function () {
                             'use strict';
        4
                             angular
                                            .module('app.dashboard')
                                            .controller('DashboardController', DashboardController', Dashboard
        8
                             DashboardController.$inject = ['$q', 'dataservice'
                             /* @ngInject */
        9
    10
                             function DashboardController($q, dataservice, logge
    11
                                           var vm = this;
    12
                                           vm.news = {
    13
                                                          title: 'codeplay',
                                                          description: 'Hot Towel Angular is a SPA t
    14
    15
                                           };
    16
                                           vm.messageCount = 0;
    17
                                           vm.people = [];
    18
                                           vm.title = 'Dashboard';
    19
    20
                                           activate();
    21
    22
                                           function activate() {
    23
                                                          var promises = [getMessageCount(), getPeop
                                                          return $q.all(promises).then(function() {
    24
    25
                                                                         logger.info('Activated Dashboard View'
    26
                                                          });
    27
    28
    29
                                           function getMessageCount() {
    30
                                                          return dataservice.getMessageCount().then()
    31
                                                                         vm.messageCount = data;
    32
                                                                         return vm.messageCount;
    33
                                                          });
    34
    35
    36
                                           function getPeople() {
```

```
Side by Side
           'use strict';
           angular
               .module('app.dashboard')
               .controller('DashboardController', DashboardCom
           DashboardController.$inject = ['$q', 'dataservice']
     8
     9
    10
           function DashboardController($q, dataservice, logge
    11
               var vm = this;
    12
               vm.news = {
    13
                   title: 'VS Code',
                   description: 'Hot Towel Angular is a SPA to
    14
    15
               };
    16
               vm.messageCount = 0;
    17
               vm.people = [];
    18
               vm.title = 'Dashboard';
    19
    20
               function getMessageCount() {
    21
                   return dataservice.getMessageCount().then()
    22
                        vm.messageCount = data;
    23
                        return vm.messageCount;
    24
                   });
    25
    26
    27
               function getPeople() {
```

```
√ ¢ ...
                            dashboard.controller.js src/client/app/dashboard - Changes on working tree
ð
      GIT
                                                                                           Inline Diffs
                                    1 (function () {
      Message (press Cmd+Enter
                                          'use strict';
Q
      CHANGES
                                          angular
       M dashboard.controller.js ...
1
                                               .module('app.dashboard')
                                               .controller('DashboardController', DashboardController);
                                          DashboardController.$inject = ['$q', 'dataservice', 'logger'];
                              9
                                          /* @ngInject */
                                    9
                                  10
                                          function DashboardController($q, dataservice, logger) {
                             10
                             11
                                  11
                                              var vm = this;
                             12
                                  12
                                              vm.news = {
                             13
                                                   title: 'codeplay',
                                  13
                                                   title: 'VS Code',
                                                   description: 'Hot Towel Angular is a SPA template for Angular developers.'
                                  14
                             14
                             15
                                  15
                                              };
                                  16
                                              vm.messageCount = 0;
                             16
                             17
                                              vm.people = [];
                                  17
                                              vm.title = 'Dashboard';
                             18
                                  18
                             19
                             20
                                              activate();
                             21
                             22
                                              function activate() {
                                                   var promises = [getMessageCount(), getPeople()];
                             23
                                                   return $q.all(promises).then(function() {
                             24
                             25
                                                       logger.info('Activated Dashboard View');
                             26
                                                   });
                             27
                             28
                                  19
                                              function getMessageCount() {
                             29
                                  20
                                                   return dataservice.getMessageCount().then(function (data) {
                             30
                                  21
                             31
                                  22
                                                       vm.messageCount = data;
                                                       return vm.messageCount;
                             32
                                  23
                             33
                                  24
                                                   });
                             34
                                  25
                                              }
```

# Frequently Used Git Features



Staging

Unstaging

Added

Diffs

Deleted

Commit

Push

Pull

Sync

Clean