

INFORMATIČKI KLUB

# FUTURA

## Od ideje do aplikacije

Dubrovnik, ožujak-svibanj 2014.

Radionice se organiziraju u suradnji sa Sveučilištem u Dubrovniku i RIT Croatia, a uz potporu Zajednice tehničke kulture Dubrovačko - neretvanske županije i Grada Dubrovnika



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# iOS – 4. radionica

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Dubrovnik, svibanj 2014.



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# Razvoj aplikacija za iOS

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## Sadržaj:

- Ask the Penguin
  - UserDefaults
  - NSDictionary & NSArray
  - UITableView <UITableViewDataSource, UITableViewDelegate>

# Razvoj aplikacija za iOS

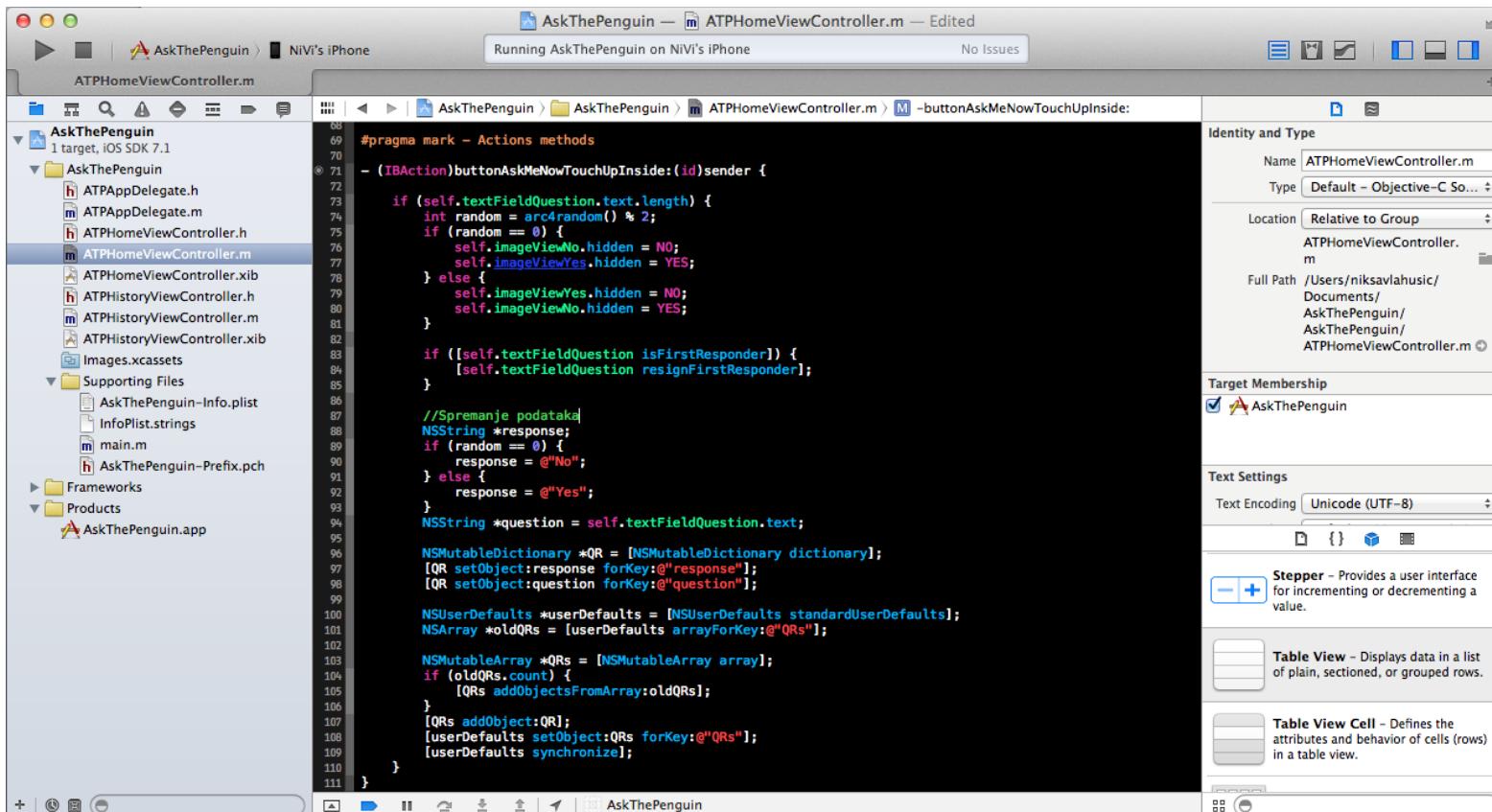
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## NSUserDefaults

- Klasa za jednostavno spremanje i čitanje podataka na iPhone disk
- Metode slične kao kod NSDictionary
- Key : Value

# Razvoj aplikacija za iOS

## NSUserDefaults



```
#pragma mark - Actions methods

- (IBAction)buttonAskMeNowTouchUpInside:(id)sender {
    if (self.textFieldQuestion.text.length) {
        int random = arc4random() % 2;
        if (random == 0) {
            self.imageViewNo.hidden = NO;
            self.imageViewYes.hidden = YES;
        } else {
            self.imageViewYes.hidden = NO;
            self.imageViewNo.hidden = YES;
        }

        if ([self.textFieldQuestion isFirstResponder]) {
            [self.textFieldQuestion resignFirstResponder];
        }

        //Spremanje podataka
        NSString *response;
        if (random == 0) {
            response = @"No";
        } else {
            response = @"Yes";
        }
        NSString *question = self.textFieldQuestion.text;

        NSMutableDictionary *QR = [NSMutableDictionary dictionary];
        [QR setObject:response forKey:@"response"];
        [QR setObject:question forKey:@"question"];

        NSUserDefaults *userDefaults = [NSUserDefaults standardUserDefaults];
        NSArray *oldQRs = [userDefaults arrayForKey:@"QRs"];
        NSMutableArray *QRs = [NSMutableArray array];
        if (oldQRs.count) {
            [QRs addObjectsFromArray:oldQRs];
        }
        [QRs addObject:QR];
        [userDefaults setObject:QRs forKey:@"QRs"];
        [userDefaults synchronize];
    }
}
```

# Razvoj aplikacija za iOS

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## NS.MutableDictionary & NS.Mutable.Array

- Klase za spremanje više podataka
- **NSMutableDictionary**
  - `setObject:{object} forKey:{key}`
  - `removeObjectForKey:{key}`
- **NSMutableArray**
  - `addObject:{object}`
  - `removeObjectAtIndex:{object_index}`

# Razvoj aplikacija za iOS

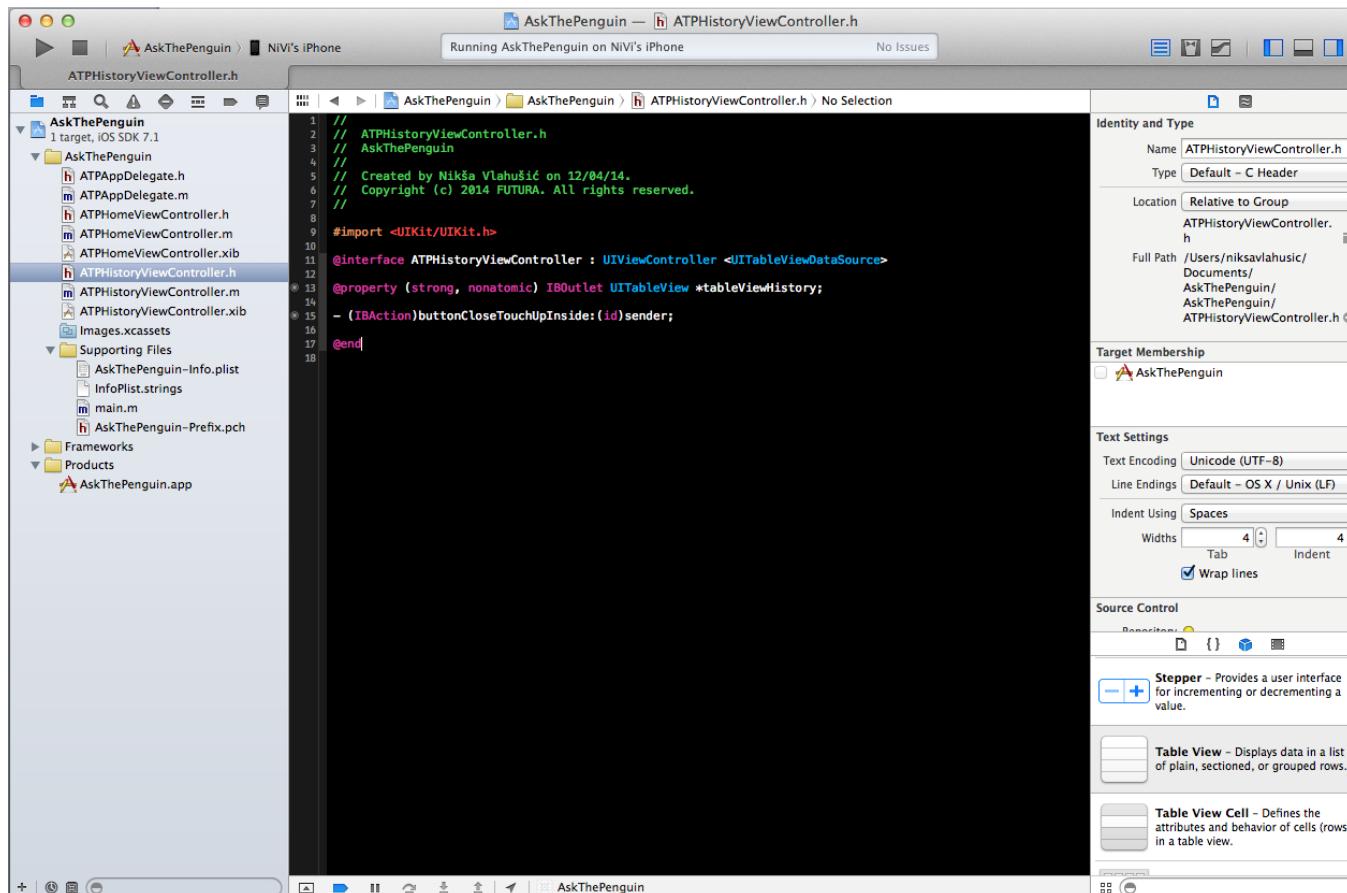
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## UITableView

- Klasa za prikaz niza podataka, najčešće se koristi u kombinaciji sa NSArray-om
- Funkcionira na principu delegata
- Bitni protokoli:
  - UITableViewDataSource
  - UITableViewDelegate

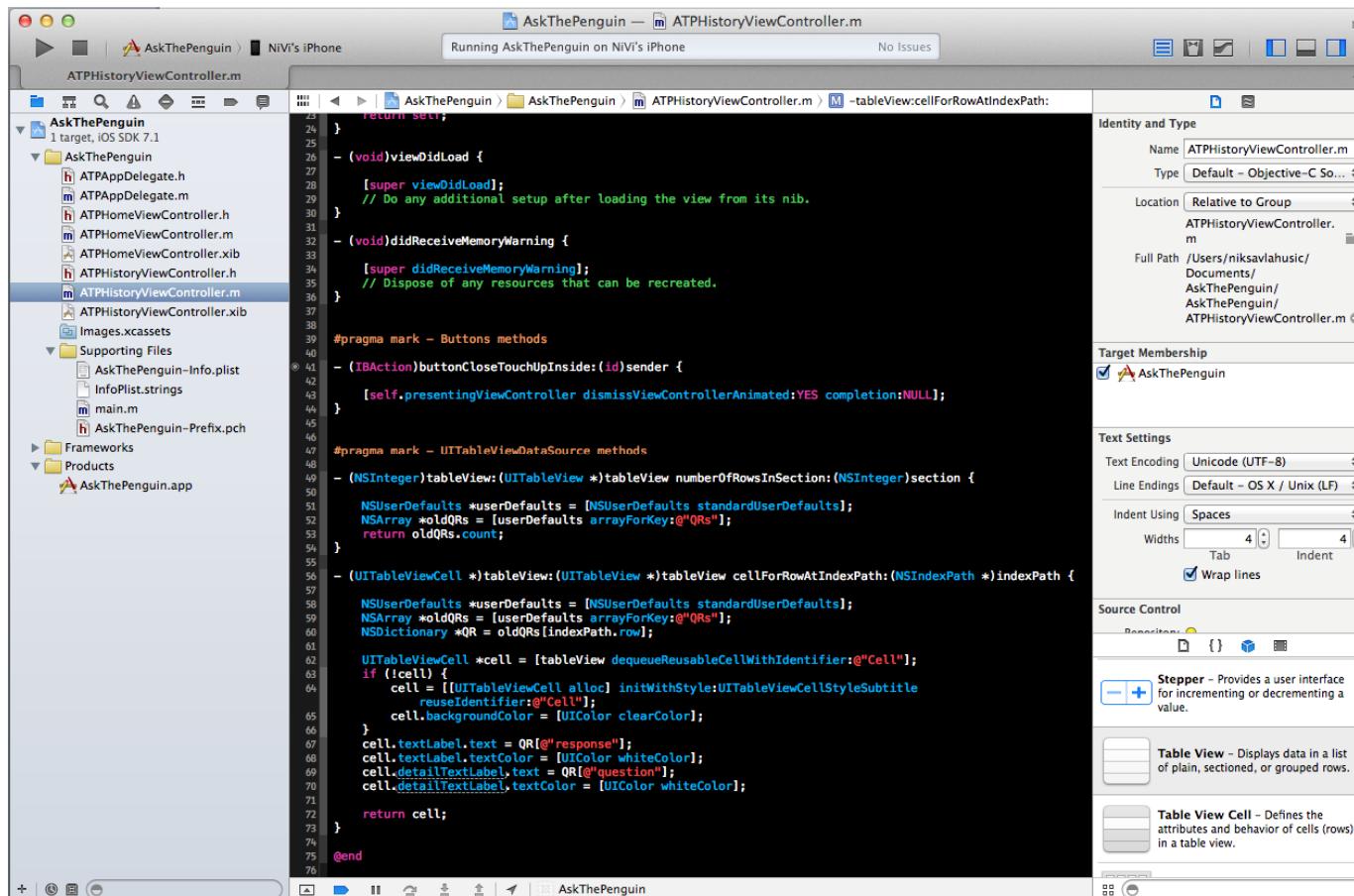
# Razvoj aplikacija za iOS

## UITableView



# Razvoj aplikacija za iOS

## UITableView



```
AskThePenguin — ATPHistoryViewController.m
Running AskThePenguin on Nivi's iPhone
No Issues

AskThePenguin
  1 target, iOS SDK 7.1
  AskThePenguin
    ATPAppDelegate.h
    ATPAppDelegate.m
    ATPHomeViewController.h
    ATPHomeViewController.m
    ATPHomeViewController.xib
    ATPHistoryViewController.h
    ATPHistoryViewController.m
    ATPHistoryViewController.xib
    Images.xcassets
    Supporting Files
      AskThePenguin-Info.plist
      InfoPlist.strings
      main.m
      AskThePenguin-Prefix.pch
  Frameworks
  Products
    AskThePenguin.app

ATPHistoryViewController.m
  1 target, iOS SDK 7.1
  AskThePenguin
    ATPHistoryViewController.m
    ATPHistoryViewController.h
    ATPHistoryViewController.xib
    Images.xcassets
    Supporting Files
      AskThePenguin-Info.plist
      InfoPlist.strings
      main.m
      AskThePenguin-Prefix.pch
    Frameworks
    Products
      AskThePenguin.app

ATPHistoryViewController.m
- (void)viewDidLoad {
    [super viewDidLoad];
    // Do any additional setup after loading the view from its nib.
}

- (void)didReceiveMemoryWarning {
    [super didReceiveMemoryWarning];
    // Dispose of any resources that can be recreated.
}

#pragma mark - Buttons methods

- (IBAction)buttonCloseTouchUpInside:(id)sender {
    [self.presentingViewController dismissViewControllerAnimated:YES completion:NULL];
}

#pragma mark - UITableViewDataSource methods

- (NSInteger)tableView:(UITableView *)tableView numberOfRowsInSection:(NSInteger)section {
    NSUserDefaults *userDefaults = [NSUserDefaults standardUserDefaults];
    NSArray *oldQRs = [userDefaults arrayForKey:@"QRs"];
    return oldQRs.count;
}

- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {
    NSUserDefaults *userDefaults = [NSUserDefaults standardUserDefaults];
    NSArray *oldQRs = [userDefaults arrayForKey:@"QRs"];
    NSDictionary *QR = oldQRs[indexPath.row];
    UITableViewCell *cell = [tableView dequeueReusableCellWithIdentifier:@"Cell"];
    if (!cell) {
        cell = [[UITableViewCell alloc] initWithStyle:UITableViewCellStyleSubtitle
                                      reuseIdentifier:@"Cell"];
        cell.backgroundColor = [UIColor clearColor];
    }
    cell.textLabel.text = QR[@"response"];
    cell.textLabel.textColor = [UIColor whiteColor];
    cell.detailTextLabel.text = QR[@"question"];
    cell.detailTextLabel.textColor = [UIColor whiteColor];
}
@end

Identity and Type
  Name: ATPHistoryViewController.m
  Type: Default - Objective-C Source File
  Location: Relative to Group
    ATPHistoryViewController.m
  Full Path: /Users/niksvlahusic/Documents/AskThePenguin/AskThePenguin/ATPHistoryViewController.m

Target Membership
  AskThePenguin (selected)

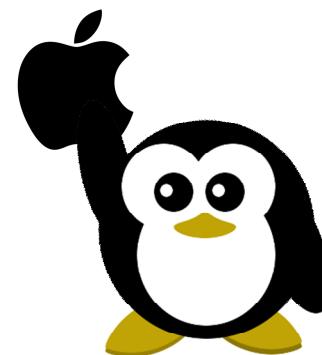
Text Settings
  Text Encoding: Unicode (UTF-8)
  Line Endings: Default - OS X / Unix (LF)
  Indent Using: Spaces
  Widths: 4 Tab: 4
  Wrap lines: checked

Source Control
  Repository: None
  Stepper - Provides a user interface for incrementing or decrementing a value.
  Table View - Displays data in a list of plain, sectioned, or grouped rows.
  Table View Cell - Defines the attributes and behavior of cells (rows) in a table view.
```

# Razvoj aplikacija za iOS

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## Ask the Penguin



# Razvoj aplikacija za iOS

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Vanguard

Hvala na pažnji!