

Use of Pickers

Pickers consist of a rotating scrollable view, which is used for picking a value from the list of items.

Important Properties

- delegate
- dataSource

Important Methods

```
- (void)reloadAllComponents
- (void)reloadComponent:(NSInteger)component
- (NSInteger)selectedRowInComponent:(NSInteger)component
- (void)selectRow:(NSInteger)row inComponent:(NSInteger)component
  animated:(BOOL)animated
```

```
- (void)selectRow:(NSInteger)row inComponent:(NSInteger)component
  animated:(BOOL)animated
```

Update ViewController.h

We will add instances for a text field, a picker view, and an array. We will adopt **UITextFieldDelegate**, **UIPickerViewDataSource** and **UIPickerViewDelegate** protocols. The **ViewController.h** is as follows –

```
#import <UIKit/UIKit.h>

@interface ViewController : UIViewController
<UITextFieldDelegate, UIPickerViewDataSource, UIPickerViewDelegate>
{
    UITextField *myTextField;
    UIPickerView *myPickerView;
    NSArray *pickerArray;
}
@end
```

Add a Custom Method addPickerView

```
-(void)addPickerView{
    pickerArray = [[NSArray alloc]initWithObjects:@"Chess",
    @"Cricket",@"Football",@"Tennis",@"Volleyball", nil];
    myTextField = [[UITextField alloc]initWithFrame:
    CGRectMake(10, 100, 300, 30)];
    myTextField.borderStyle = UITextBorderStyleRoundedRect;
    myTextField.textAlignment = UITextAlignmentCenter;
    myTextField.delegate = self;
    [self.view addSubview:myTextField];
    [myTextField setPlaceholder:@"Pick a Sport"];
    myPickerView = [[UIPickerView alloc]init];
    myPickerView.dataSource = self;
    myPickerView.delegate = self;
    myPickerView.showsSelectionIndicator = YES;
    UIBarButtonItem *doneButton = [[UIBarButtonItem alloc]
    initWithTitle:@"Done" style:UIBarButtonItemStyleDone
    target:self action:@selector(done:)];
    UIToolbar *toolBar = [[UIToolbar alloc]initWithFrame:
    CGRectMake(0, self.view.frame.size.height-
```

```

myDatePicker.frame.size.height-50, 320, 50)];
[toolbar setBarStyle:UIBarStyleBlackOpaque];
NSArray *toolbarItems = [NSArray arrayWithObjects:
doneButton, nil];
[toolbar setItems:toolbarItems];
myTextField.inputView = myPickerView;
myTextField.inputAccessoryView = toolbar;
}

```

Implement the delegates as shown below –

```

#pragma mark - Text field delegates

-(void)textFieldDidBeginEditing:(UITextField *)textField{
    if ([textField.text isEqualToString:@""]) {
        [self dateChanged:nil];
    }
}

#pragma mark - Picker View Data source
-(NSInteger)numberOfComponentsInPickerView:(UIPickerView *)pickerView{
    return 1;
}
-(NSInteger)pickerView:(UIPickerView *)pickerView
numberOfRowsInComponent:(NSInteger)component{
    return [pickerArray count];
}

#pragma mark- Picker View Delegate

-(void)pickerView:(UIPickerView *)pickerView didSelectRow:
(NSInteger)row inComponent:(NSInteger)component{
    [myTextField setText:[pickerArray objectAtIndex:row]];
}
-(NSString *)pickerView:(UIPickerView *)pickerView titleForRow:
(NSInteger)row forComponent:(NSInteger)component{
    return [pickerArray objectAtIndex:row];
}

```

Update **viewDidLoad** in **ViewController.m** as follows –

```

(void)viewDidLoad
{
    [super viewDidLoad];
    [self addPickerView];
}

```

Output

When we run the application, we'll get the following output –





On selecting the text field, the picker view will be displayed as shown below where we can select our choice –

