Saving Data in iOS

Using XML

NSXMLParser

- ♣ It is the default XML parser included in iOS
- ♣ It is a SAX (Simple API for XML) based XML parser.
- ♣ It is fast and must be tuned for the XML feed that you are parsing.
- ♣ Uses a delegate to handle events as they occur while parsing an XML document.

NSXMLParser Cons

- NSXMLParser does not perform any validation on your XML document.
- It is not meant to modify the XML document and write it to disk.
- To construct your own tree representation of the XML document, you will have to do it by hand.
- Can be a bit unwieldy.

Using NSXMLParser

♣ Your class must implement the NSXMLParserDelegate protocol.

```
self.xmlParser = [[NSXMLParser alloc] initWithData:xmlData];
self.xmlParser.delegate = self;
[self.xmlParser parse];
```

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Responding to Events

- parser:didStartElement:elementName:namespace:qu alifiedName:attributes
- parser:foundCharacters:
- parser:didEndElement:elementName:namespace:qua lifiedName

Demo



DOM Based Parser

- DOM based parsing builds an entire tree of the XML inside of your app.
- Allows you to run XPath queries on the XML tree.
- Some libraries give you the ability to change the actual XML data and write it back to disk.



RaptureXML

```
RXMLElement * rootXML = [RXMLElement elementFromXMLFile:@"video_games.xml"];
```

```
NSArray * video_games = [rootXML children:@"video_game"];
```

RaptureXML (cont'd)

```
[rootXML iterate:@"video_game" usingBlock:^(RXMLElement *element) {
    NSLog(@"Game Name: %@", [element child:@"name"].text);
    RXMLElement * rating = [element child:@"rating"];
    NSLog(@"Rating: %@", rating.text);
    NSLog(@"Rating System: %@", [rating attribute:@"ranking"]);
}];
```

```
[rootXML iterateWithRootXPath:@"//video_game" usingBlock:^(RXMLElement *element) {
    NSLog(@"Game Name: %@", [element child:@"name"].text);
    RXMLElement * rating = [element child:@"rating"];
    NSLog(@"Rating: %@", rating.text);
    NSLog(@"Rating System: %@", [rating attribute:@"ranking"]);
}];
```

Demo



Creating a New XML Document

- A new XML document is typically handled by using NSXMLDocument
- ♣ Unfortunately, NSXMLDocument is currently not available on iOS.
- ♣ You can either write the new XML in an NSString or use a third party library.



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Demo



Challenge

