

## Объявление

```
protocol Printable {
    associatedtype PrintableType
    associatedtype OtherPrintableType
    func printValues(_ arg1: PrintableType,
        and arg2: OtherPrintableType)
}
```

## Пример реализации протокола

```
class Document: Printable {
   func printValues(_ arg1: Bool, and arg2: Int) {
   }
}
```

## **Typealias**

```
protocol ViewModel {
    associatedtype ContextType
    var context: ContextType?
    init(with context: ContextType?)
}
```

```
class ScheduleViewModel:
    ViewModel {
        typealias ContextType = Int
        var context: ContextType?
        required init(with context:
        ContextType?) {
            self.context = context
        }
    }
}
```

## Ограничения для типов

```
protocol Container {
    associatedtype Item
    mutating func append(_ item: Item)
    var count: Int { get }
    subscript(i: Int) -> Item { get }
    associatedtype Iterator: IteratorProtocol
    where Iterator.Element == Item
    func makeIterator() -> Iterator
}
```