net/http

```
http.HandlerFunc

// Standard HTTP handler function signature.
func myHandler(w http.ResponseWriter, r *http.Request) {
    ...
}

// Standard middleware function signature.
func myMiddleware(next http.Handler) http.Handler {
    return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
        ...
        next.ServeHTTP(w, r)
    })
}
```

http.Request

```
ip := r.RemoteAddr // Get the IP address that sent the request.
method := r.Method // Get the request method.
path := r.URL.Path // Get the request URL path.

id := r.URL.Query().Get("id") // Get the query string parameter "id".
accept := r.Header.Get("Accept") // Get the request "Accept" header.

body, err := ioutil.ReadAll(r.Body) // Read the request body into a []byte slice.
```

http.ResponseWriter

```
// Remember: All headers must be set before calling w.WriteHeader() or w.Write().
w.Header().Set("Location", "/article/1")
w.WriteHeader(201)
w.Write([]byte("Created"))
```

http.NotFound and http.Error

```
http.NotFound(w, r)
http.Error(w, "Bad Request", 400) // Or using constants...
http.Error(w, http.StatusText(http.StatusBadRequest), http.StatusBadRequest)
```

http.ServeMux

```
mux := http.NewServeMux()
mux.HandleFunc("/foo", fooHandler) // Matches the URL path "/foo" only.
mux.HandleFunc("/bar/", barHandler) // Matches all URL paths that begin "/bar/".

// Register a static file server for all URL paths that begin "/static/".
fs := http.FileServer(http.Dir("./path/to/static/dir"))
mux.Handle("/static/", http.StripPrefix("/static", fs))
```

http.Server

http.MethodGet // "GET" http.MethodPost // "POST" http.StatusMovedPermanently // 301 http.StatusSeeOther // 303 http.StatusTemporaryRedirect // 307 http.StatusBadRequest // 400 http.StatusUnauthorized // 401 http.StatusForbidden // 403

http.StatusInternalServerError // 500

// 405

http.StatusMethodNotAllowed

net/http Constants

http.Request.Form

http.Request.Context

```
type contextKey string
var contextKeyEmail = contextKey("email")

// Add a value to request context. Note: This creates a new copy of the request.
ctx = context.WithValue(r.Context(), contextKeyEmail, "me@example.com")
r = r.WithContext(ctx)

// Retrieve the value from request context.
email, ok := r.Context().Value(contextKeyEmail).(string)
```