Setting proj4string

```
proj <- "+proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0"
proj4string(pts) <- CRS(proj)
pts</pre>
```

```
## class : SpatialPoints
## features : 39
```

extent : -114.2935, -109.1263, 23.0757, 29.32541 (xmin, xmax, ymin, ymax) ## coord. ref. : +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0

Ellipsoid: A simplified model of the shape of the earth. • NAD27

- NAD83
 - WGS84

Datum: Defined coordinate system



Projection: A mapping onto 2-space

- Equal Area
 - Conical

Setting proj4string

Projection: A mapping onto 2-space

- Equal Area
- Conical

Datum: Defined coordinate system

- Long/Lat
- UTM

Ellipsoid: A simplified model of the shape of

- the earth.
- NAD27
- NAD83
- WGS84

```
proj <- "+proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0"
proj4string(pts) <- CRS(proj)
pts</pre>
```

```
## class : SpatialPoints
## features : 39
## extent : -114.2935, -109.1263, 23.0757, 29.32541 (xmin, xmax, ymin, ymax)
## coord. ref. : +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0
```

Reprojecting SpatialPoints

```
pts.utm <- spTransform(pts, CRS("+proj=utm +zone=12 +datum=WGS84"))

summary( pts.utm )

## Object of class SpatialPoints

## Coordinates:

## min max

## Longitude 180128 686925.2

## Latitude 2552540 3248545.0

## Is projected: TRUE

## proj4string:

## [+proj=utm +zone=12 +datum=WGS84 +ellps=WGS84 +towgs84=0,0,0]

## Number of points: 39</pre>
```

Simply changing the proj4string will not reproject the data!