

[AVFoundation](#) / [Media reading and writing](#) / [Caption authoring](#)

API Collection

# Caption authoring

Create captions and subtitles in industry-standard formats.

## Topics

### Captions

`class AVCaption`

An object that represents text to present over a time range.

`class AVMutableCaption`

A mutable caption subclass that you use to create new captions.

### Regions

`class AVCaptionRegion`

An object that represents the region in which the system presents a caption.

`class AVMutableCaptionRegion`

A mutable caption region subclass that you use to create new caption regions.

### Groups

`class AVCaptionGroup`

An object that represents zero or more captions that intersect in time.

`class AVCaptionGrouper`

An object that analyzes the temporal overlaps of caption objects to create caption groups for each span of concurrent captions.

## Presentation

`class AVCaptionRenderer`

An object that renders captions for display at a particular time.

## Reading and writing

`class AVAssetReaderOutputCaptionAdaptor`

An object that reads caption group objects from an asset track that contains timed text.

`class AVAssetWriterInputCaptionAdaptor`

An object that appends captions to an asset writer input.

## Conversion and validation

`struct AVCaptionSettingsKey`

A structure that defines dictionary keys to configure the caption converter and validator.

`class AVCaptionFormatConformer`

An object that converts a canonical caption to a specific format.

`class AVCaptionConversionValidator`

An object that validates captions for a conversion operation.