Presenting Rich Links
In Your App

Tim Horton, Apple Inc.
Happy #EarthDay everyone! What a beautiful world we live in. Let’s all embrace our shared responsibility to each other to take care of our one and only planet Earth. Photos shotoniPhone by @EstherHavens, Sarah Norvell, Jason Barnes and @VincentRiener.

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Retrieving metadata
Presenting links
Accelerating the share sheet
Retrieving metadata

Presenting links

Accelerating the share sheet
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https://cooking.nytimes.com/recipes/8101-classic-shrimp-...
https://www.seriouseats.com/recipes/2010/02/no-holds-b...
// Fetch metadata from a given URL.

let metadataProvider = LPMetadataProvider()
let url = URL(string: "https://www.apple.com/ipad")!

metadataProvider.startFetchingMetadata(for: url) { metadata, error in

   if error != nil {
      // The fetch failed; handle the error.
      return
   }

   // TODO: Make use of fetched metadata.

}
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LPMetadataProvider and LPLinkMetadata

Title, icon, image, and video are all optional

LPLinkMetadata is serializable

Can also be used for local file URLs
Retrieving metadata

Presenting links

Accelerating the share sheet
title: “Classic Shrimp Scampi”
icon: 🍤
image: 🍤

Classic Shrimp Scampi
cooking.nytimes.com
// Present LPLinkMetadata in a LPLinkView.

let linkView = LPLinkView(metadata: metadata)
cell.contentView.addSubview(linkView)
linkView.sizeToFit()
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func activityViewControllerLinkMetadata(_: UIActivityViewController) -> LPLinkMetadata? {
    return self.metadata
}
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func activityViewControllerLinkMetadata(_: UIActivityViewController) -> LPLinkMetadata? {
    let metadata = LPLinkMetadata()
    metadata.originalURL = URL(string: "https://www.example.com/apple-pie")
    metadata.url = metadata.originalURL
    metadata.title = "The Greatest Apple Pie In The World"
    metadata.imageProvider = NSItemProvider.init(contentsOf:
        Bundle.main.url(forResource: "apple-pie", withExtension: "jpg"))
    return metadata
}
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// Provide custom metadata to UIActivityViewController via UIActivityItemSource.

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}
Summary

Use LPMetadataProvider to fetch rich metadata for a URL

Use LPLinkView to beautifully present links in your app

Prefetch LPLinkMetadata to accelerate the share sheet preview in your app
More Information

developer.apple.com/wwdc19/262