Gettings Started

Installation

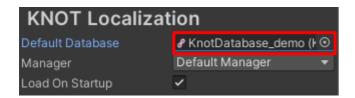
Download and import package. KnotProjectSettings asset will be created under your root Assets folder upon further interactions. You are able to move this asset to any subfolder in your project.

Creating Database

Open Tools/KNOT Localization/Database Editor window and create new Database asset as suggested.

You can also create new Database via Create/KNOT Localization/Database project window context menu

Mark your Database as Default in Edit/Project Settings/KNOT/Localization



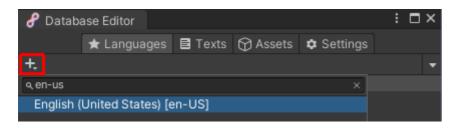
Adding Key Collection

Open Settings tab, create and assign new Text Key Collection asset.



Adding Language

Open Languages tab. Click + to select language Culture Name and create new Language.



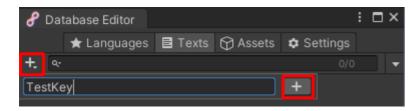
Adding Text Collection

Select newly created language and add Asset in Item Collection Providers list. Create and assign new Text Collection asset.



Adding Text Key

Open Texts tab and create new Key.

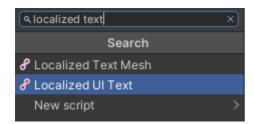


Select newly created key, click + to add localized value to the corresponding Language and type localized value.

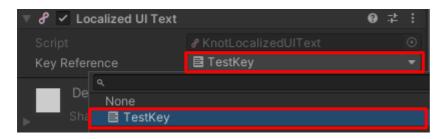


Testing

Make sure that your project has **Unity UI** package installed in Package Manager. Create new Game Object with Unity's native Text component and attach Localized UI Text component.



Assign previously created Key to Key Reference field.



Hit Play.

Runtime API

Changing Language

```
KnotLanguageData targetLanguage =
KnotLocalization.Manager.Languages.FirstOrDefault(d => d.SystemLanguage ==
SystemLanguage.English);
if (targetLanguage != null)
    KnotLocalization.Manager.LoadLanguage(targetLanguage);
```

Subscribing to Language Loaded callback

```
KnotLocalization.Manager.StateChanged += state =>
{
   if (state == KnotManagerState.LanguageLoaded)
   {
      //Selected or startup language is loaded
   }
};
```

Getting Text Value

```
string myLocalizedText = "myKey".Localize();

//or

string myLocalizedText = KnotLocalization.GetText("myKey");

//or

string myLocalizedText = KnotLocalization.Manager.GetTextValue("myKey").Value;

//or

KnotTextKeyReference myKeyRef = new KnotTextKeyReference("myKey");

string myLocalizedText = myKeyRef.Value;
```

Subscribing to Text Updated callback

```
void OnEnable()
{
    KnotLocalization.RegisterTextUpdatedCallback("myKey", TextUpdated);
}

void OnDisable()
{
    KnotLocalization.UnRegisterTextUpdatedCallback("myKey", TextUpdated);
}

void TextUpdated(string text)
```

```
{
    //Do something with localized text assigned to myKey
}
```

or

```
KnotTextKeyReference myKeyRef = new KnotTextKeyReference("myKey");
myKeyRef.ValueUpdated += text =>
{
    //Do something with localized text assigned to myKey
};
```

Accessing Metadata

Database

```
MyCustomMetadata myMetadata =
KnotLocalization.Manager.Database.Settings.Metadata.OfType<MyCustomMetadata>
().FirstOrDefault();
```

Selected Language

```
MyCustomMetadata myMetadata =
KnotLocalization.Manager.SelectedLanguage.Metadata.OfType<MyCustomMetadata>
().FirstOrDefault();
```

Text Key

```
MyCustomMetadata myMetadata =
KnotLocalization.Manager.GetTextValue("MyKey").Metadata.OfType<MyCustomMetadata>
().FirstOrDefault();
```

Creating simple Database from scratch at runtime

```
void Awake()
{
   KnotDatabase myDatabase = ScriptableObject.CreateInstance<KnotDatabase>();

   KnotLanguageData myLanguage = new KnotLanguageData(SystemLanguage.English);
   KnotTextCollection myTextCollection =
ScriptableObject.CreateInstance<KnotTextCollection>();
   myTextCollection.Add(new KnotTextData("myKey", "myText"));
```

```
myLanguage.CollectionProviders.Add(new
KnotAssetCollectionProvider(myTextCollection));
  myDatabase.Languages.Add(myLanguage);

KnotLocalization.Manager.SetDatabase(myDatabase);
  KnotLocalization.Manager.LoadLanguage(myLanguage);

KnotLocalization.Manager.StateChanged += OnStateChanged;
}

void OnStateChanged(KnotManagerState state)
{
  if (state == KnotManagerState.LanguageLoaded)
  {
    Debug.Log(KnotLocalization.GetText("myKey")); //myText
  }
}
```

#Metadata

Metadata objects stores custom data and implements additional logic in localization pipeline.

Metadata can be part of three scopes:

- Database-wide metadata applies to all Languages and all Keys
- Language-wide metadata applies to all Keys for specific Language
- Key metadata affects only specific Key

Editor-only Metadata will not be included in build

Implementing your own Metadata

You can define your own custom Metadata class by implementing IKnotMetadata interface.

Example:

```
[Serializable]
[KnotMetadataInfo("Prefix", KnotMetadataInfoAttribute.MetadataScope.Text,
AllowMultipleInstances = true)]
public class KnotPrefixMetadata : IKnotTextFormatterMetadata
{
   public string Prefix
   {
      get => _prefix;
      set => _prefix = value;
   }
   [SerializeField] private string _prefix;
```

[!NOTE] Custom IKnotMetadata implementation should have no constructor or at least one public constructor without arguments.

If you decide to remove, change the name, namespace or assembly of custom class you will get serialization error and possibly lose data. As a temporary solution, add [MovedFrom(false, null, "OldNamespaceName", "OldClassName")] attribute to your class before making those changes.

Addons

TextMeshPRO

Adds Localized Text Mesh PRO and Localized Text Mesh PRO (UI) components.

Requires com.unity.textmeshpro package installed

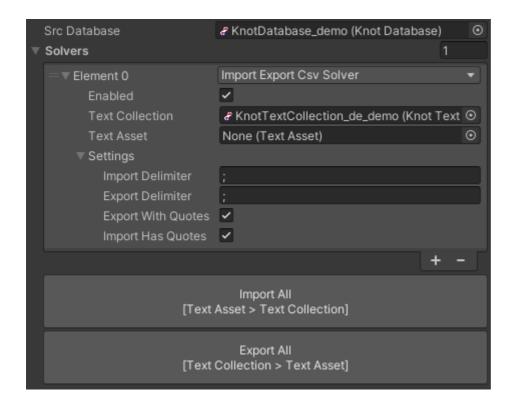
Addressables

KnotAddressableCollectionProvider lets you to assign Text or Asset Collection Provider as Asset Reference (either local or remote) to specific Language.

Requires com.unity.addressables package installed

Import / Export (Experimental)

Transfer localization data between CSV and KnotTextCollectionAsset. You can use CSV Importer/Exporter by creating KNOT/Localization/Addons/Import Export asset.



OpenAl Autotranslator (Experimental)

Use OpenAI API for machine translation. You can use OpenAI Autotranslator by creating KNOT/Localization/Addons/OpenAI Autotranslator Preset asset.

