100th Mendix Meetup June 28 2022 **Conclusion Low Code Company**

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Tips & Tricks that make you an even better developer



- How the Company Design System makes styling quicker and easier
- Shortcuts that will save you time
- Security, not flashy, but vital
- Practices to create the best microflows

Tips & Tricks

Company Design System

Shortcuts

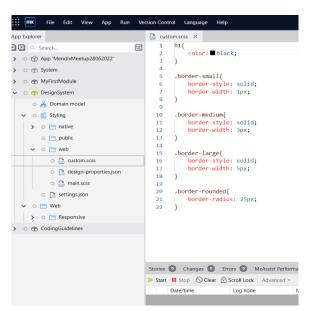
Security

Best practices

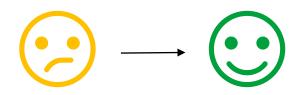
Styling made easy



Tip: Create a company design system to **quickly** and **easily** build the styling of your application.



Tip: Use the Company Design System to create a **consistent** style guide throughout your application landscape



Styling made easy

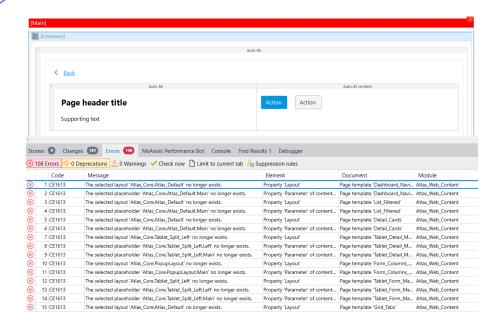


Tip: Create **reusable** design properties inside your Company Design System

Medium Border

Large Border

Trick: App -> Tools -> Batch
update layouts to prevent errors
and save time



Shortcuts that will save you time





Switch languages

Ctrl + L and Ctrl + Shift + L

Close pop-ups

Ctrl + Enter

Distraction free mode

Shift + F11

Dissolve and wrap containers

Right mouse click on container

Switch branch

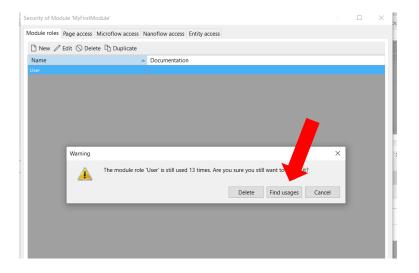
Manage Branch Lines



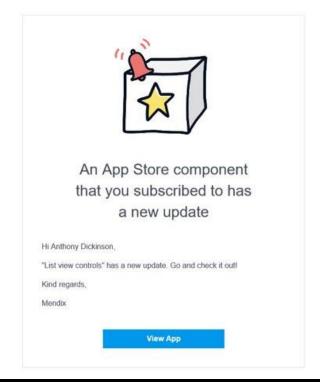
Security



Trick: Easily see which project roles have a module role assigned



Tip: Stay updated about marketplace module upgrades



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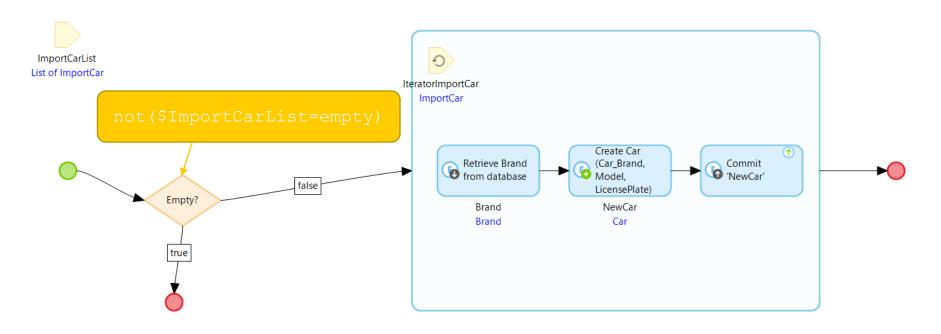


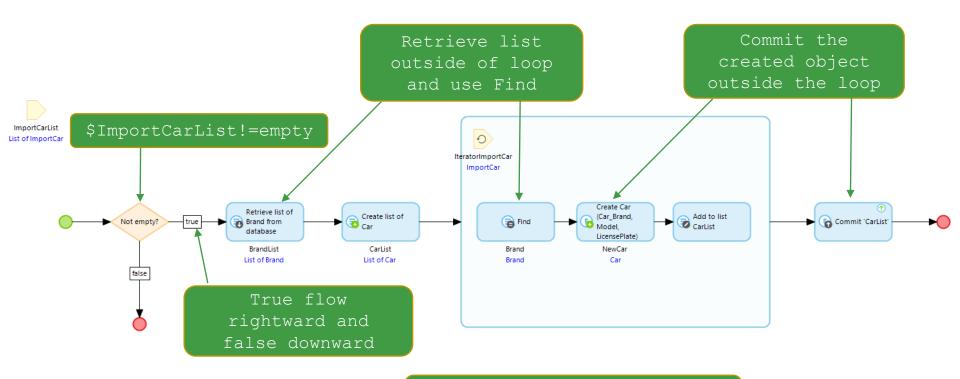
Microflow Best Practices

Microflow best practices

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Case: This microflow is called from a Scheduled Event that imports a list of cars. What further improvements can be made to this microflow?





Neatly align and distribute your microflows



Thank you and good luck with implementing these tips & tricks!

Tips & Tricks

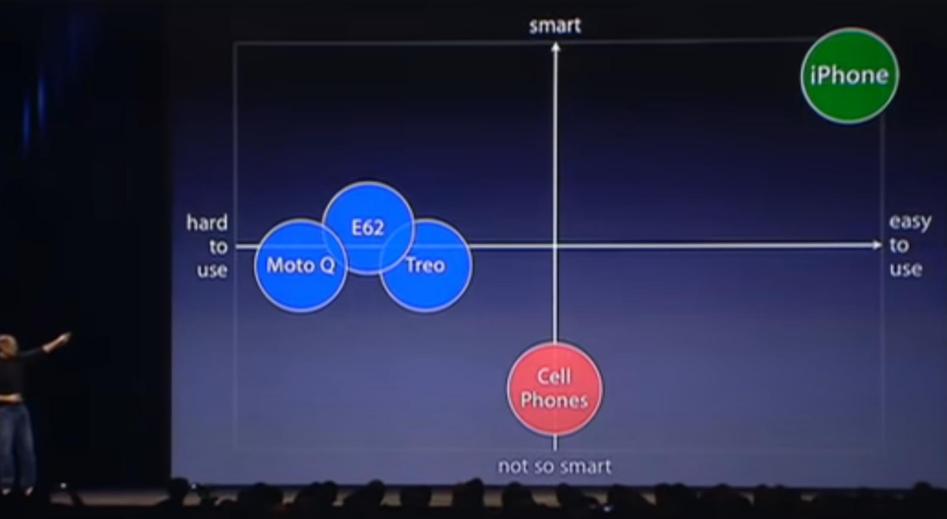
Company Design System

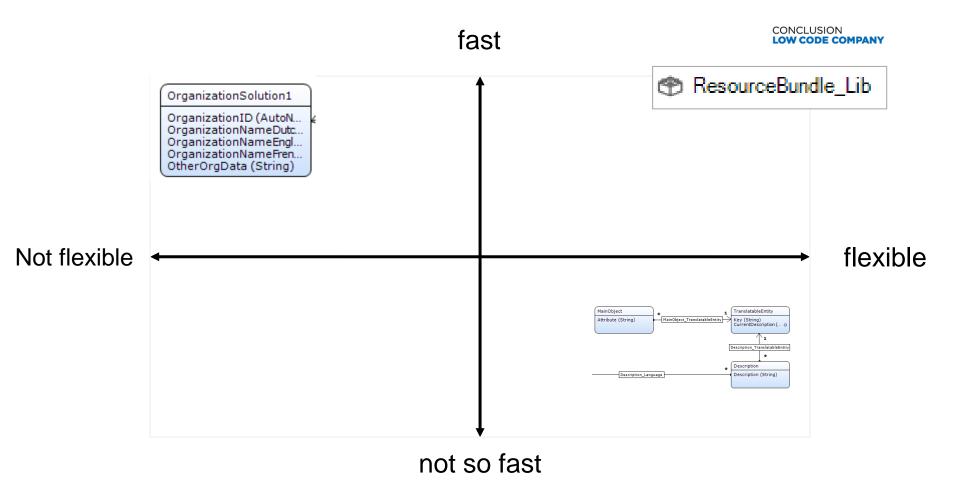
Shortcuts

Security

Best practices

Multilingual master data Fast and flexible

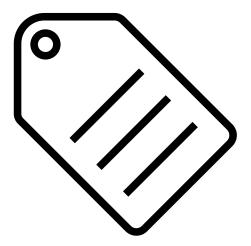




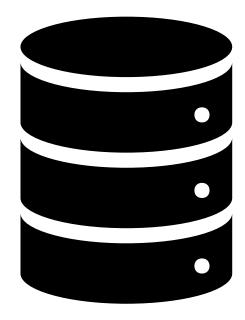
MULTILINGUAL

ames or) one of e played eat risks, cut into	dictatorial /drktortorial addictatorial /drktortorial addictator. 2 overbearing orially adv. [Latin: related
NOV NO TO	diction /'dɪkʃ(ə)n/ n. manner ciation in speaking or singing dictio from dico dict- say] dictionary /'dɪkʃənərɪ/ n. (p) book listing (usu, alpha)
risky, es) di- efined	explaining the words of a lan
ed to	language. 2 reference book e the terms of a particular

Labels and text

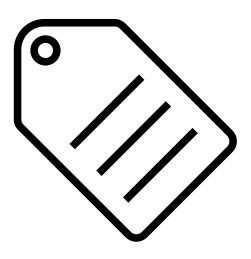


List of values



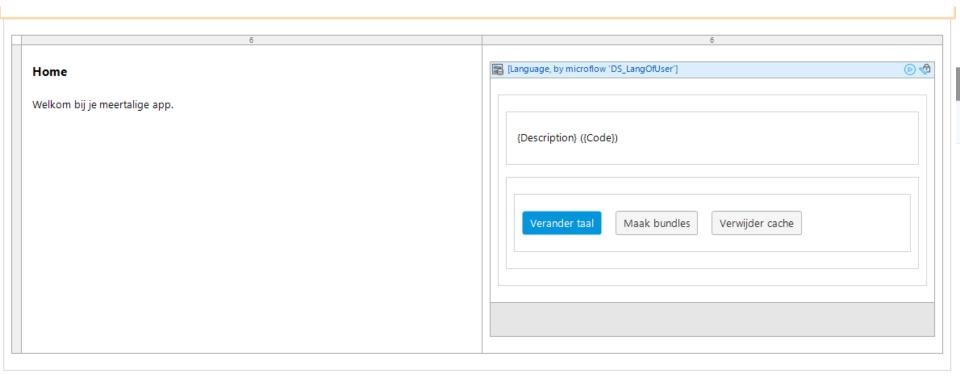
Multilingual application

Labels and text



- Design time
- Manage via Studio Pro
 - Export to Excel
 - Translate
 - Import from Excel

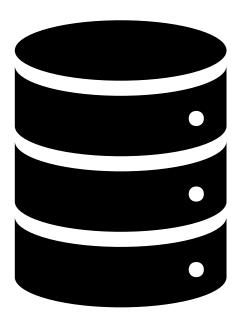
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Multilingual application

List of values

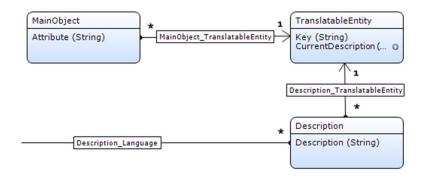


- Runtime
- Manage in application whilst running
 - UI
 - API
 - Imports

Pattern



Domain model

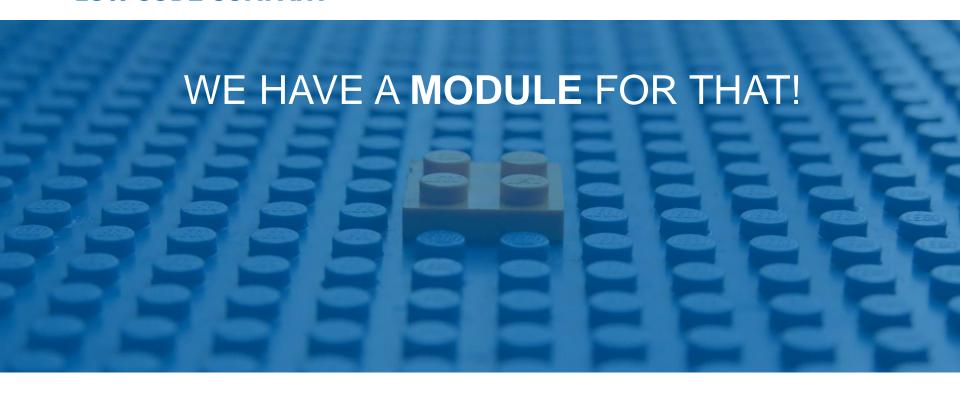


Drawback

- Impact on performance
 - Finding the right translation, per object/record is a retrieve to the database and at least three queries
 - Description
 - Associations

https://forum.mendix.com/link/questions/5419

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https://medium.com/mendix/mendix-optimize-runtime-translations-ae6c7ec35dee

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Use the power of Java



extends Object

Resource bundles contain locale-specific objects. When your program needs a locale-specific resource, a String for example, your program can load it from the resource bundle that is appropriate for the current user's locale. In this way, you can write program code that is largely independent of the user's locale isolating most, if not all, of the locale-specific information in resource bundles.

This allows you to write programs that can:

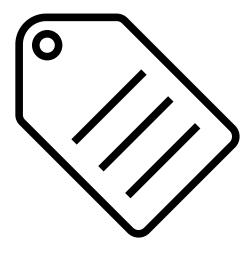
- · be easily localized, or translated, into different languages
- · handle multiple locales at once
- · be easily modified later to support even more locales

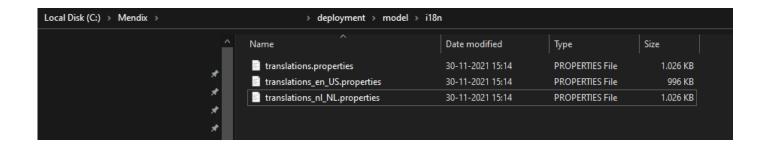
Resource bundles belong to families whose members share a common base name, but whose names also have additional components that identify their locales. For example, the base name of a family of resource bundles might be "MyResources". The family should have a default resource bundle which simply has the same name as its family - "MyResources" - and will be used as the bundle of last resort if a specific locale is not supported. The family can then provide as many locale-specific members as needed, for example a German one named "MyResources_de".

Each resource bundle in a family contains the same items, but the items have been translated for the locale represented by that resource bundle. For example, both "MyResources" and "MyResources de" may have a String that's used on a button for canceling operations. In "MyResources" the String may contain "Cancel" and in "MyResources de" it may contain "Abbrechen".

If there are different resources for different countries, you can make specializations: for example, "MyResources de CH" contains objects for the German language (de) in Switzerland (CH). If you want to only modify some of the resources in the specialization,

When your program needs a locale-specific object, it loads the ResourceBundle class using the getBundle method:





Structure

- Language of the user
 - Default language

Platform - example

```
C: > Mendix >
                                      > deployment > model > i18n > 0 translations_nl_NLproperties
         55e673f6-c6c1-451b-8a94-bfb115938a17=Home
         09e28bc7-132b-46a6-9114-051856086217=Werkplaatsbezoek
         fdeed68f-9486-4aa1-a61f-4e30a5b97dcf=Werkplaatsbezoek
         e67153b4-6916-479b-a9bf-6cf2f2eac809=Werkplaatsbezoek
         baade8b0-bfaa-4e94-b56b-1b6ce007ac2a=Meldingen
         82c163cc-eb4c-4170-a603-270962b06c3c=Meldingen
         56c27748-b8ad-4830-a076-8eb6cbf30e27=Meldingen
         61ea05be-5dd8-4700-9687-3a503e8ed060=Planning
         49f95759-cbfb-49e4-a50e-d131e4a63226=Fleet
         b25e9448-d91a-439a-b8b6-51fe6630049a=Fleet
         7aef4c39-9430-44c9-8637-7998c230a4c2=Fleet
         220bd9da-49ce-4d5f-94c8-2e98c1b88e56=Planning
         4bc4e978-10d6-4cf1-a132-5034f9d7137a=Beheer
         dbe6fae0-0d88-4181-8d72-2781219ecce5=Accounts
```

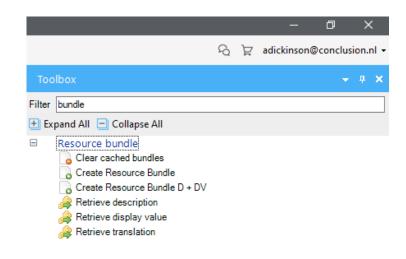
The **same concept** for labels and text now for list of values

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The module



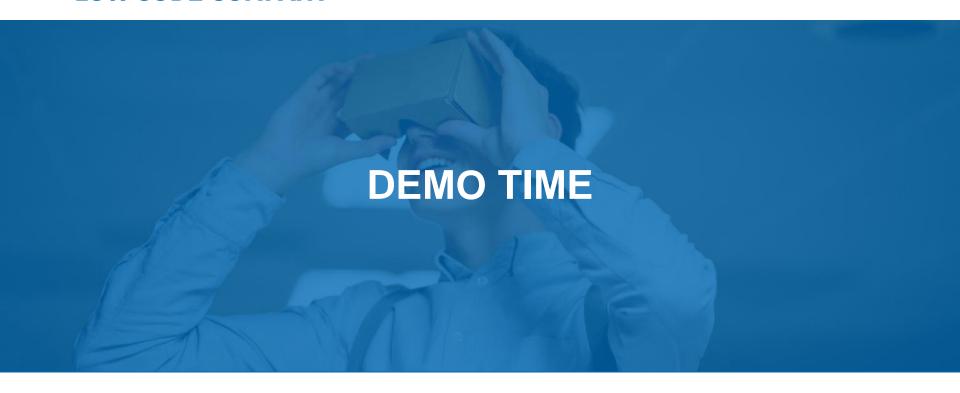
- 6 java actions
- 148 LoC
- Focus on re-use with generic approach
- Ease of implementation
- Control within your project
 - Define your own domain model
- Integrated fallback
 - User language
 - App default language



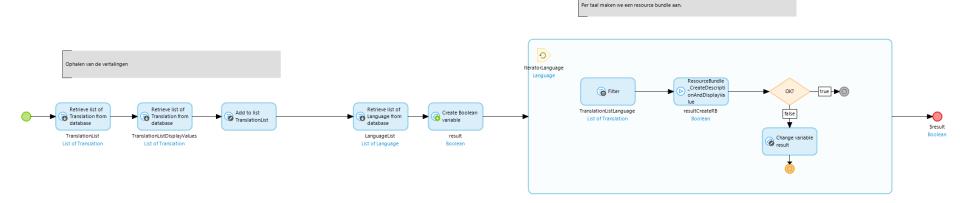
IMPLEMENTATION IN A PROJECT



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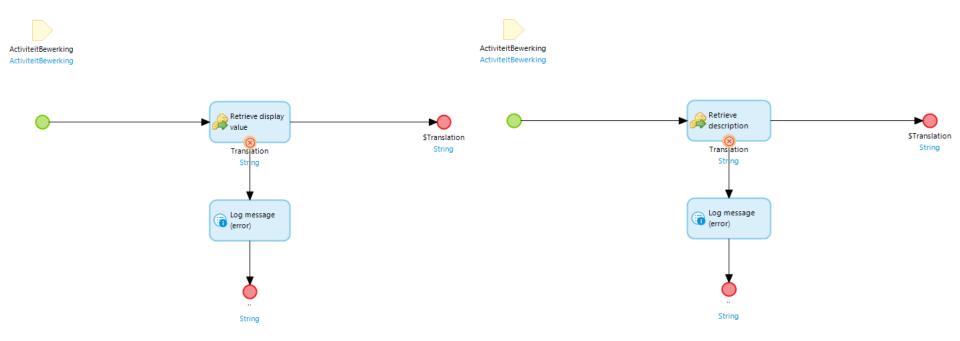


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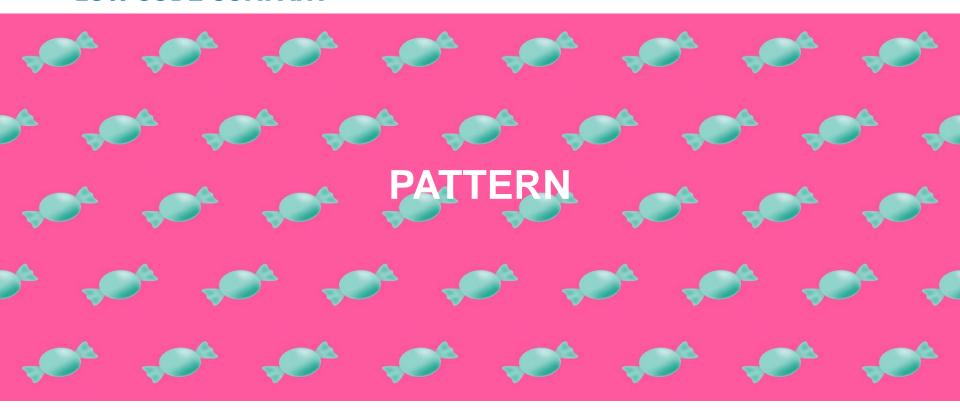


Virtual attribute

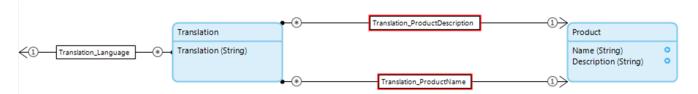
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Pro's

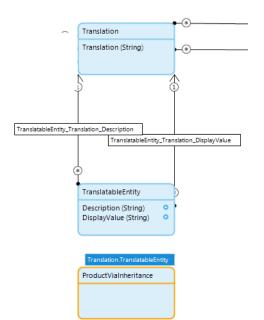
 Data spread over multiple entities thus no one big entity with all translations

Cons

Model virtual attribute(s) per entity

Pattern - Inheritance



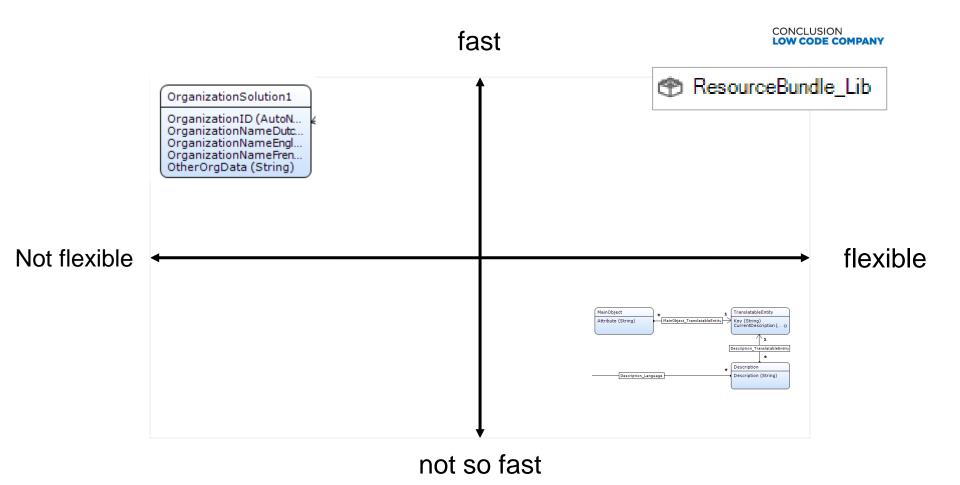


Pro's

- Only two virtual attributes
- Domain model easier to read

Cons

- All translations in one big table could impact performance
- Blocks use of inheritance for other objectives



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