CONNECTING THE DOTS



Web Accessibility through Internationalization and Localization

"We're all just temporarily abled."

"We're all just temporarily abled."

「皆んな、一時的に健常者」

"हम सभी अस्थायी रूप से सक्षम हैं।"

We're all just temporarily abled.

Design for your future self!

About Me



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Accessibility ally

"Understanding different capabilities of your potential users and designing within those constraints."

Principles of ally

- → Perceivable
- → Operable
- → Understandable
- → Robust



Building Perspective 🦮

"Disabiliti es are a mismatch between one's ability and one's environment."

Building Perspective 🦮

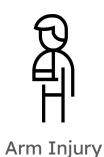
Permanent

Temporary

Situational









New Parent

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Source: Microsoft Inclusive Design Toolkit

Source: Microsoft Inclusive Design Toolkit

Building Perspective 🦮





Situational



Can't See





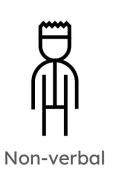


Source: Microsoft Inclusive Design Toolkit

Building Perspective **



Can't Speak



Permanent

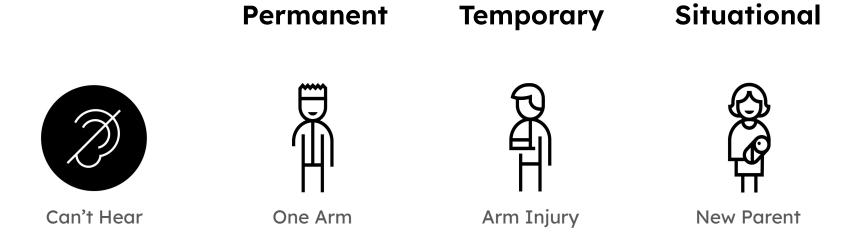


Temporary



Situational

Building Perspective 🦮



Internationalization i18n

Architecting your app so it can easily be adapted for users from any culture, region, or language.

React i18n Libraries



react-intl



Localization | 110n

Adapting your app for a specific culture, region, or language.

Aspects of 110n

Language and Content

- → Text Translation
- → Cultural relevance

Regional Standards

- → Date & time formats
- → Currency
- → Measurement units

Design & User Interface

- → Text expansion
- → Bidirectionality
- → Adapt icons

Support

- → Customer support
- → Data handling
- → Privacy/legal laws

Text Translations

```
const translations = {
 "en": {
    "greeting": "Welcome to Mercari!",
    "description": "Mercari - Japan's largest flea market service",
  "ja": {
    "greeting": "メルカリへようこそ!",
    "description": "メルカリ - 日本最大のフリマサービス",
  "hi": {
    "greeting": "मेरकारी में आपका स्वागत है!",
    "description": "मेरकारी - जापान की सबसे बड़ी फ्ली मार्केट सेवा",
  "es": {...}
```





Translation Context

```
• • •
const TranslationContext =
export const TranslationProvider = ({
 defaultLanguage,
  children,
}) => {
  const [language, setLanguage] = useState(defaultLanguage)
  const translate = (key: TranslationKey) => {
   return translations[language][key]
  return (
   <TranslationContext.Provider value={{ language, setLanguage, translate }}>
     {children}
    </TranslationContext.Provider>
export const useTranslate = () => {
 return useContext(TranslationContext).translate
```

Usage

```
const Home = () => {
  const { translate } = useTranslate()
  return <h1>{translate('greeting')}</h1>
}
```

Date & time format

Japan 💽

India 🜊

US 🌉

YYYY-MM-DD 2024-11-23

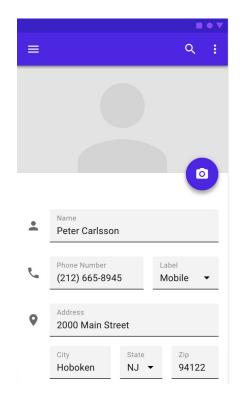
DD-MM-YYYY 23-11-2024

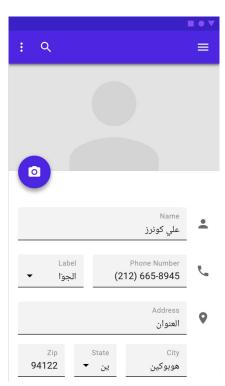
MM-DD-YYYY 11-23-2024







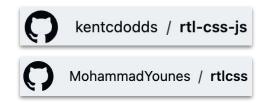




HTML dir attribute



CSS Util libraries



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RTL

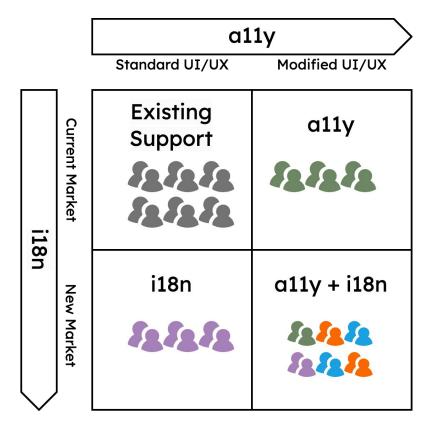


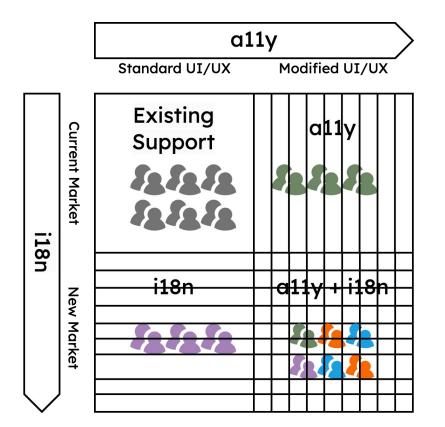
Depending on the country, you may see different green vegetables used in Pixar's "Inside Out"

```
export const DogComponent = () => {
  const { translate } = useTranslate();
  return (
    <h1>{translate('title')}</h1>
    <img
        src="path/to/image_jpg"
        alt="Image of a dog playing with a blue colored ball in the park"
        role="lmg"
        />
      );
};
```



Blurring lines between Internationalization & Accessibility





Thank you!

