

Props

Props គឺជាការបញ្ជីទិន្នន័យពី Parent ទៅកាន់ Child ។ នៅក្នុង Nuxt 4 (Vue 3) យើងប្រើ `defineProps()` macro ដើម្បីកំណត់ Props។

1. Acquire Props

1.1 create child page in `components\APostCard.vue`

```
<script setup>
  defineProps({
    title: {
      type: String,
      required: true
    },
    content: {
      type: String,
      required: true
    }
  })
</script>

<template>
  <div class="p-6 border border-gray-200 rounded-lg shadow-lg bg-white hover:shadow-xl transition-shadow duration-300">
    <h2 class="text-2xl font-extrabold text-gray-900 mb-3 hover:text-blue-600 transition-colors duration-300">
      {{ title }}
    </h2>
    <p class="text-gray-700 text-base leading-relaxed">
      {{ content }}
    </p>
  </div>
</template>
```

1.2 create parent page in `pages\aposts.vue`

edited article by Mr. limvichet, contact 012856917/067878118.

```
<template>
<div class="min-h-screen bg-gray-50 font-sans">
  <!-- Header -->
  <header class="bg-gray-600 text-white py-6 shadow-md">
    <div class="max-w-6xl mx-auto px-6 flex justify-between items-center">
      <h1 class="text-3xl font-bold">My Blog</h1>
      <nav class="space-x-4">
        <a href="#" class="hover:text-gray-200 transition-colors">Home</a>
        <a href="#" class="hover:text-gray-200 transition-colors">About</a>
        <a href="#" class="hover:text-gray-200 transition-colors">Contact</a>
      </nav>
    </div>
  </header>

  <!-- Main content with responsive sidebar -->
  <div class="max-w-6xl mx-auto px-6 mt-10 flex flex-col lg:flex-row gap-8">

    <!-- Posts ( left ) -->
    <main class="flex-1 space-y-6">
      <APostCard
        title="My First Post"
        content="This is a simple post content using props in Nuxt 4."
      />
      <APostCard
        title="Another Post"
        content="Props make it easy to pass data from parent to child components."
      />
      <APostCard
        title="Yet Another Post"
        content="You can reuse the PostCard component multiple times without duplicating code."
      />
    </main>

    <!-- Sidebar ( right ) hidden on small screens -->
    <aside class="hidden lg:block w-80 flex-shrink-0 space-y-6">
      <!-- About -->
      <div class="p-6 bg-white rounded-lg shadow-lg">
        <h3 class="text-xl font-bold mb-3">About Me</h3>
        <p class="text-gray-700 text-sm leading-relaxed">
          Hi! I am Vichet, a web developer. I love building Nuxt and Vue projects.
        </p>
      </div>

      <!-- Categories -->
      <div class="p-6 bg-white rounded-lg shadow-lg">
        <h3 class="text-xl font-bold mb-3">Categories</h3>
        <ul class="space-y-2 text-gray-700">
          <li><a href="#" class="hover:text-blue-600 transition-colors">Web Development</a></li>
          <li><a href="#" class="hover:text-blue-600 transition-colors">Nuxt.js</a></li>
          <li><a href="#" class="hover:text-blue-600 transition-colors">Tailwind CSS</a></li>
        </ul>
      </div>

      <!-- Recent Posts -->
      <div class="p-6 bg-white rounded-lg shadow-lg">
        <h3 class="text-xl font-bold mb-3">Recent Posts</h3>
    
```

```

<ul class="space-y-2 text-gray-700">
    Edited article by Mr. limvichet, contact 012856917/067878118.
    <li><a href="#" class="hover:text-blue-600 transition-colors">My First Post</a></li>
    <li><a href="#" class="hover:text-blue-600 transition-colors">Another Post</a></li>
</ul>
</div>
</aside>

</div>
</div>
</template>

```

2. Deepen Props

2.1 create child page in `components\DPostCard.vue`

```

<script setup lang="ts">
    defineProps({
        title: {
            type: String,
            required: true
        },
        content: {
            type: String,
            required: true
        }
    })
</script>

<template>
    <div class="p-6 border border-gray-200 rounded-lg shadow-lg bg-white hover:shadow-xl transition-shadow duration-300">
        <h2 class="text-2xl font-extrabold text-gray-900 mb-3 hover:text-blue-600 transition-colors duration-300">
            {{ title }}
        </h2>
        <p class="text-gray-700 text-base leading-relaxed">
            {{ content }}
        </p>
    </div>
</template>

```

2.2 create parent page in `pages\dpots.vue`

edited article by Mr. limvichet, contact 012856917/067878118.

```
<script setup lang="ts">
interface Post {
  title: string
  content: string
}

const posts: Post[] = [
  {
    title: "My First Post",
    content: "This is a simple post content using props in Nuxt 4."
  },
  {
    title: "Another Post",
    content: "Props make it easy to pass data from parent to child components."
  },
  {
    title: "Yet Another Post",
    content: "You can reuse the PostCard component multiple times without duplicating code."
  }
]

</script>

<template>
  <div class="min-h-screen bg-gray-50 font-sans">
    <!-- Header -->
    <header class="bg-gray-600 text-white py-6 shadow-md">
      <div class="max-w-6xl mx-auto px-6 flex justify-between items-center">
        <h1 class="text-3xl font-bold">My Blog</h1>
        <nav class="space-x-4">
          <a href="#" class="hover:text-gray-200 transition-colors">Home</a>
          <a href="#" class="hover:text-gray-200 transition-colors">About</a>
          <a href="#" class="hover:text-gray-200 transition-colors">Contact</a>
        </nav>
      </div>
    </header>

    <!-- Main content with responsive sidebar -->
    <div class="max-w-6xl mx-auto px-6 mt-10 flex flex-col lg:flex-row gap-8">

      <!-- Posts (left) -->
      <main class="flex-1 space-y-6">
        <DPostCard v-for="(post, index) in posts"
          :key="index"
          :title="post.title"
          :content="post.content"
        />
      </main>

      <!-- Sidebar (right) hidden on small screens -->
      <aside class="hidden lg:block w-80 flex-shrink-0 space-y-6">
        <!-- About -->
        <div class="p-6 bg-white rounded-lg shadow-lg">
          <h3 class="text-xl font-bold mb-3">About Me</h3>
          <p class="text-gray-700 text-sm leading-relaxed">
```

```

        </p>
        edited article by Mr. limvichet, contact 012856917/067878118.

    </div>

    <!-- Categories -->
    <div class="p-6 bg-white rounded-lg shadow-lg">
        <h3 class="text-xl font-bold mb-3">Categories</h3>
        <ul class="space-y-2 text-gray-700">
            <li><a href="#" class="hover:text-blue-600 transition-colors">Web Development</a></li>
            <li><a href="#" class="hover:text-blue-600 transition-colors">Nuxt.js</a></li>
            <li><a href="#" class="hover:text-blue-600 transition-colors">Tailwind CSS</a></li>
        </ul>
    </div>

    <!-- Recent Posts -->
    <div class="p-6 bg-white rounded-lg shadow-lg">
        <h3 class="text-xl font-bold mb-3">Recent Posts</h3>
        <ul class="space-y-2 text-gray-700">
            <li><a href="#" class="hover:text-blue-600 transition-colors">My First Post</a></li>
            <li><a href="#" class="hover:text-blue-600 transition-colors">Another Post</a></li>
        </ul>
    </div>
</aside>

</div>
</div>
</template>

```

3. Create Props

3.1 create types in `types/post.ts`

```

export interface PostItem {
    title: string
    content: string
}

```

3.2 create child page in `components\CPostCard.vue`

```

<script setup lang="ts">
import type { PostItem } from '~/types/post'
const props = defineProps<PostItem>()
</script>

<template>
<div class="p-6 border border-gray-200 rounded-lg shadow-lg bg-white hover:shadow-xl transition-shadow duration-300">
    <h2 class="text-2xl font-extrabold text-gray-900 mb-3 hover:text-blue-600 transition-colors duration-300">
        {{ title }}
    </h2>
    <p class="text-gray-700 text-base leading-relaxed">
        {{ content }}
    </p>
</div>
</template>

```

3.3 create parent page in `pages\cposts.vue`

edited article by Mr. limvichet, contact 012856917/067878118.

```
<script setup lang="ts">

import type { PostItem } from '~/types/post'

const posts: PostItem[] = [
  {
    title: "My First Post",
    content: "This is a simple post content using props in Nuxt 4."
  },
  {
    title: "Another Post",
    content: "Props make it easy to pass data from parent to child components."
  },
  {
    title: "Yet Another Post",
    content: "You can reuse the PostCard component multiple times without duplicating code."
  }
]

</script>

<template>
<div class="min-h-screen bg-gray-50 font-sans">
  <!-- Header -->
  <header class="bg-gray-600 text-white py-6 shadow-md">
    <div class="max-w-6xl mx-auto px-6 flex justify-between items-center">
      <h1 class="text-3xl font-bold">My Blog</h1>
      <nav class="space-x-4">
        <a href="#" class="hover:text-gray-200 transition-colors">Home</a>
        <a href="#" class="hover:text-gray-200 transition-colors">About</a>
        <a href="#" class="hover:text-gray-200 transition-colors">Contact</a>
      </nav>
    </div>
  </header>

  <!-- Main content with responsive sidebar -->
  <div class="max-w-6xl mx-auto px-6 mt-10 flex flex-col lg:flex-row gap-8">

    <!-- Posts (left) -->
    <main class="flex-1 space-y-6">
      <CPostCard
        v-for="(post, index) in posts"
        :key="index"
        :title="post.title"
        :content="post.content"
      />
    </main>

    <!-- Sidebar (right) hidden on small screens -->
    <aside class="hidden lg:block w-80 flex-shrink-0 space-y-6">
      <!-- About -->
      <div class="p-6 bg-white rounded-lg shadow-lg">
        <h3 class="text-xl font-bold mb-3">About Me</h3>
        <p class="text-gray-700 text-sm leading-relaxed">

```

```

</p>
edited article by Mr. limvichet, contact 012856917/067878118.

</div>


<div class="p-6 bg-white rounded-lg shadow-lg">
<h3 class="text-xl font-bold mb-3">Categories</h3>
<ul class="space-y-2 text-gray-700">
<li><a href="#" class="hover:text-blue-600 transition-colors">Web Development</a></li>
<li><a href="#" class="hover:text-blue-600 transition-colors">Nuxt.js</a></li>
<li><a href="#" class="hover:text-blue-600 transition-colors">Tailwind CSS</a></li>
</ul>
</div>


<div class="p-6 bg-white rounded-lg shadow-lg">
<h3 class="text-xl font-bold mb-3">Recent Posts</h3>
<ul class="space-y-2 text-gray-700">
<li><a href="#" class="hover:text-blue-600 transition-colors">My First Post</a></li>
<li><a href="#" class="hover:text-blue-600 transition-colors">Another Post</a></li>
</ul>
</div>
</aside>

</div>
</div>
</template>

```

4. លេខាត់

មានគម្រោងដែលត្រូវបង្កើតផ្សេងៗជាប្រព័ន្ធដូច [3. Create Props](#)

```
<script setup lang="ts">
defineProps({
  id: {
    type: Number,
    required: true
  },
  title: {
    type: String,
    required: true
  },
  description: {
    type: String,
    required: true
  },
  image: {
    type: String,
    required: true
  },
  link: {
    type: String,
    default: '#'
  }
})
</script>

<template>
<div class="rounded-xl overflow-hidden shadow-md hover:shadow-xl transition">
  

  <div class="p-5 space-y-3">
    <h3 class="text-lg font-semibold">
      {{ title }}
    </h3>

    <p class="text-gray-600 text-sm">
      {{ description }}
    </p>

    <!-- Append id to link -->
    <NuxtLink
      :to="`${link}/${id}`"
      class="inline-block text-blue-600 font-medium hover:underline"
    >
      Read more →
    </NuxtLink>
  </div>
</div>
</template>
```

```
<script setup lang="ts">

interface Card {
  id: number
  title: string
  description: string
  image: string
  link: string
}

const cards: Card[] = [
  {
    id: 1,
    title: 'iPhone 15 Pro',
    description: 'Titanium design with A17 Pro chip.',
    image: '/images/iphone17.png',
    link: '/products'
  },
  {
    id: 2,
    title: 'MacBook Pro',
    description: 'Supercharged by M3 chip.',
    image: '/images/macbook.png',
    link: '/products'
  },
  {
    id: 3,
    title: 'iPad Pro',
    description: 'Ultra-thin. Ultra-powerful.',
    image: '/images/airpod.png',
    link: '/products'
  }
]
</script>

<template>
<div class="max-w-6xl mx-auto p-8">
  <h1 class="text-2xl font-bold mb-6">Featured Products</h1>

  <div class="grid grid-cols-1 md:grid-cols-3 gap-6">
    <ContentCard
      v-for="(card, index) in cards"
      :key="index"
      :title="card.title"
      :description="card.description"
      :image="card.image"
      :link="card.link"
      :id="card.id"
    />
  </div>
</div>
</template>
```