

Props

Props គឺជាការបញ្ជូនទិន្នន័យពី **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>
```

```
<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">
  <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\DPPostCard.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\dposts.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">
            Hi I am Vichet, a web developer. I love building Nuxt and Vue projects.
          </p>
        </div>
      </aside>
    </div>
  </div>
</template>
```

```

        </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">
            <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">
            Hi! I am Vichet, a web developer. I love building Nuxt and Vue projects.
          </p>
        </div>
      </aside>
    </div>
  </div>
</template>
```

```

    </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">
        <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. លំហាត់

មានគម្រោងដូចខាងក្រោមសូមបំពេញទៅជាទម្រង់ដូចចំនុច 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>
```