The south west's rainforests

Clean air and a warm, damp climate in coastal and upland parts of the south west mean that some of the oldest woodlands in the region (known as temperate rainforests or Atlantic woodlands) are home to some beautiful, fascinating and sometimes very rare lower plants. These lower plants – the ferns, mosses, liverworts and lichens – are ancient. They pre-date humans, flowering plants, trees and even dinosaurs. They are the hidden gems of woodlands which these Branching Out guides will help you to discover.

You can learn more about Atlantic woodlands, mosses, liverworts, ferns and lichens in the other Branching Out guides:

- Am I in a Rainforest?
- Discover Lichens
- Discover Mosses and Liverworts



HRH The Prince Of Wales is our Patron

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Plantlife: saving wild plants

🥑 @Love_plants

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Want to get involved or find out more?

Help us to learn more about the condition of the region's Atlantic woodlands by taking part in our **Rapid Woodland Assessment** http://tiny.cc/PlantlifeRWA Look for **Building Resilience in South West Woodlands** on Facebook to keep up to date with project news and events.

We are Plantlife

For over 25 years, Plantlife has had a single ideal - to save and celebrate wild flowers, plants and fungi. They are the life support for all our wildlife

and their colour and character light up our

natural heritage is in danger of being lost.

and internationally to raise their profile,

landscapes. But without our help, this priceless

From the open spaces of our nature reserves to

the corridors of government, we work nationally

celebrate their beauty and to protect their future.

Branching Out

Discover Forest Ferns

You will have seen ferns on your walks through woods, but have you ever stopped to take a closer look?

Have you noticed that they don't all look the same?

With this guide you will learn more about the south west's woodland ferns, how to identify some of them and about their very... very... long history.

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The long history of ferns

Can you believe how long ferns have been on the earth compared with people?







Now identify some woodland ferns using this **Identification Checklist**



Maidenhair spleenwort Asplenium trichomanes

Tricho is from the Latin for 'hair', which describes the thin hair-like stems.

IDENTIFICATION GUIDE

- Tiny and delicate fern
- Grows in rocky places like old walls, bridges and rock faces
- Has rounded leaflets and a thin, wiry black stem. The leaves brush off easily and the bare stem looks a bit like hair

Hard fern Blechnum spicant

Spicant means 'spiky'

IDENTIFICATION GUIDE

- Fronds are narrow, rigid and glossy
- On the same plant, fronds can look like:
- Grows in a clump with lots of fronds together and is often found growing on the forest floor in shady woods

Polypody

Polypodium species

Poly pody means 'many feet' and describes the rhizome – creeping root – from which many fronds grow

IDENTIFICATION GUIDE

- Small fern
- Grows on tree branches, in walls and at the base of trees
- Fronds will grow individually and spaced widely apart









Lady fern

Athyrium filix-femina

In latin, filix means 'fern' and femina means 'lady'

IDENTIFICATION GUIDE

- A big fern with fronds growing to over 1 metre tall in a 'shuttlecock' shape (fronds growing from one point in the ground and splaying outwards)
- Pinnules have a very delicate and feathery appearance
- Often grows beside streams and in wet places

Male fern Dryopteris filix-mas

Pteris comes from 'pteron' in Greek which means 'feather'

IDENTIFICATION GUIDE

- A big fern with fronds growing to over 1 metre tall in a shuttlecock shape
- The frond's pinnules have flattish ends and smooth edges
- May have dense scales. The golden scaly male fern has golden brown scales that run the whole length of the stem







Hart's-tongue fern Asplenium scolopendrium

Scolopendrium means 'centipede'. Look at the sori on the frond underside. What do they remind you of?

IDENTIFICATION GUIDE

- Might find black sausage-shaped sori on the back of fronds
- Fronds are shiny and smooth
- Often found on walls and earth banks, as well as growing on the ground

