

How to teach an old dev new tech

Learning **React** as a
senior developer



About 9 months ago...




```
mkdir app_v2
```



```
git commit -m "lead dev = me"
```



```
npm install old-tech-stack
```



```
git commit -m "y u no work?!"
```


🚫 Testing Story

🚫 Reliable Patterns

🚫 Community Solutions

Fight the Familiar



Embrace the New

Embrace the New

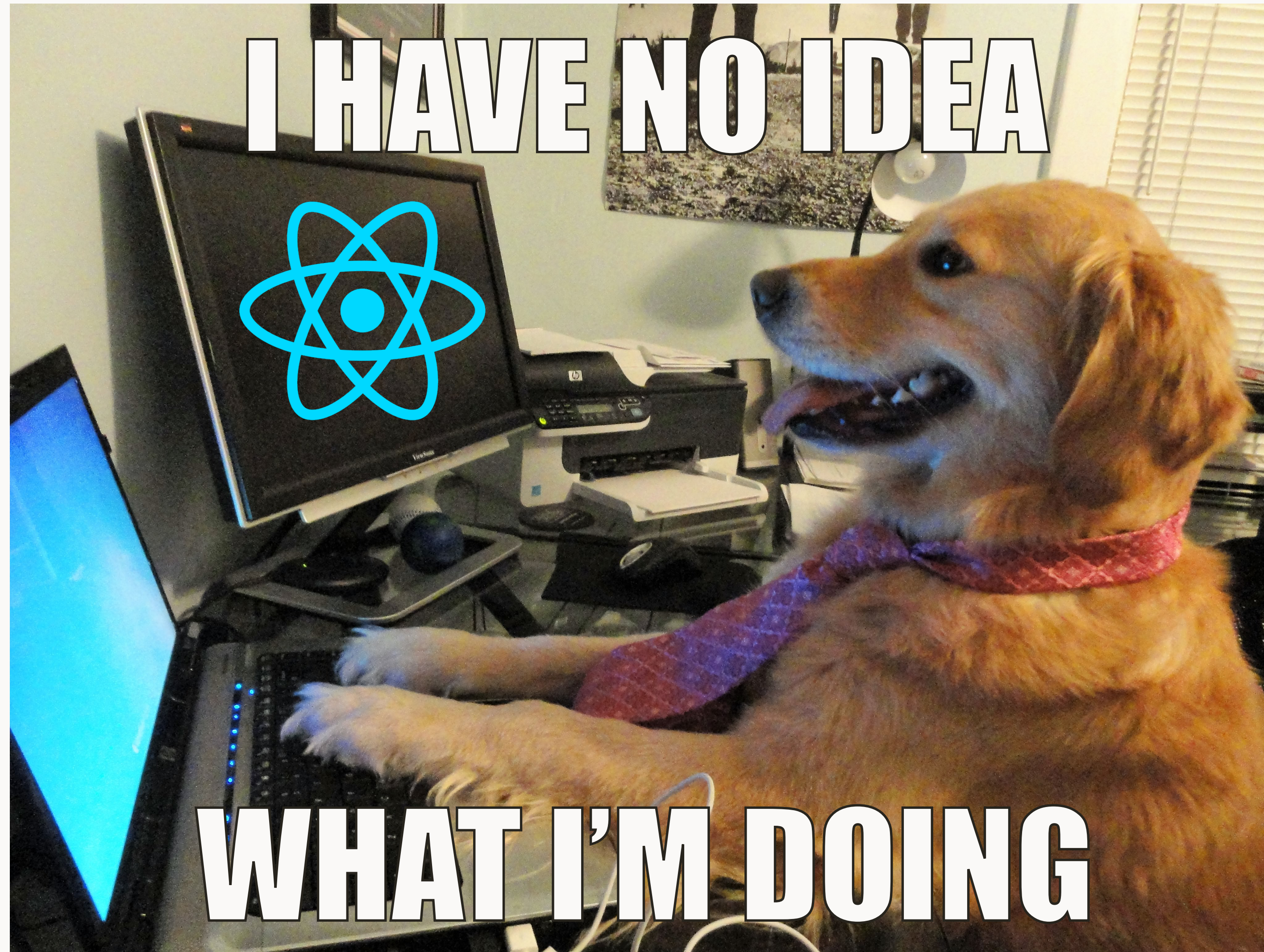
React

Redux

TypeScript

“I don’t know React...or Redux...or TypeScript.”

–Me (the **lead** developer), ~9 months ago



—Me (the **lead** developer), ~9 months ago

Fast-forward 9 months...

😊 Positive Feedback For The App

😊 Smooth Development

😊 And...

“I know **and enjoy** React.”

–Me, now

*Why was our journey **successful**?*

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senior developer



*What do you mean by “**old**”?*

- ✓ Comfortable With **A Tech Stack**
- ✓ Working Primarily In **That Tech Stack**
- ✓ Doing **The Above** For *A While*[™]

An “Old Dev” is a dev that is
solidly in their comfort zone
(and has been for a while)

The **comfort zone**
can bias you towards
not learning

Good Reasons For Staying In The Comfort Zone

- ✅ Quicker progress at start of project
- ✅ Can foresee possible pitfalls/issues
- ✅ Existing tools and knowledge base

The **comfort zone** is ***not*** inherently bad

The Comfort Zone Becomes **Bad** When You...

- 🚫 Don't trust others' experiences
- 🚫 Are afraid to fail in front of your team
- 🚫 Want to remain the resident "expert"



The **comfort zone**
is **bad** when
it does not
celebrate learning

How do we create a culture to
celebrate learning?

*Why do we **learn** anything?*

Two types of motivation



Two types of motivation

Extrinsic

Intrinsic

Two types of motivation

Extrinsic

One type of motivation does
not *necessarily* produce
better results

Intrinsic motivation is
more likely to produce
better results



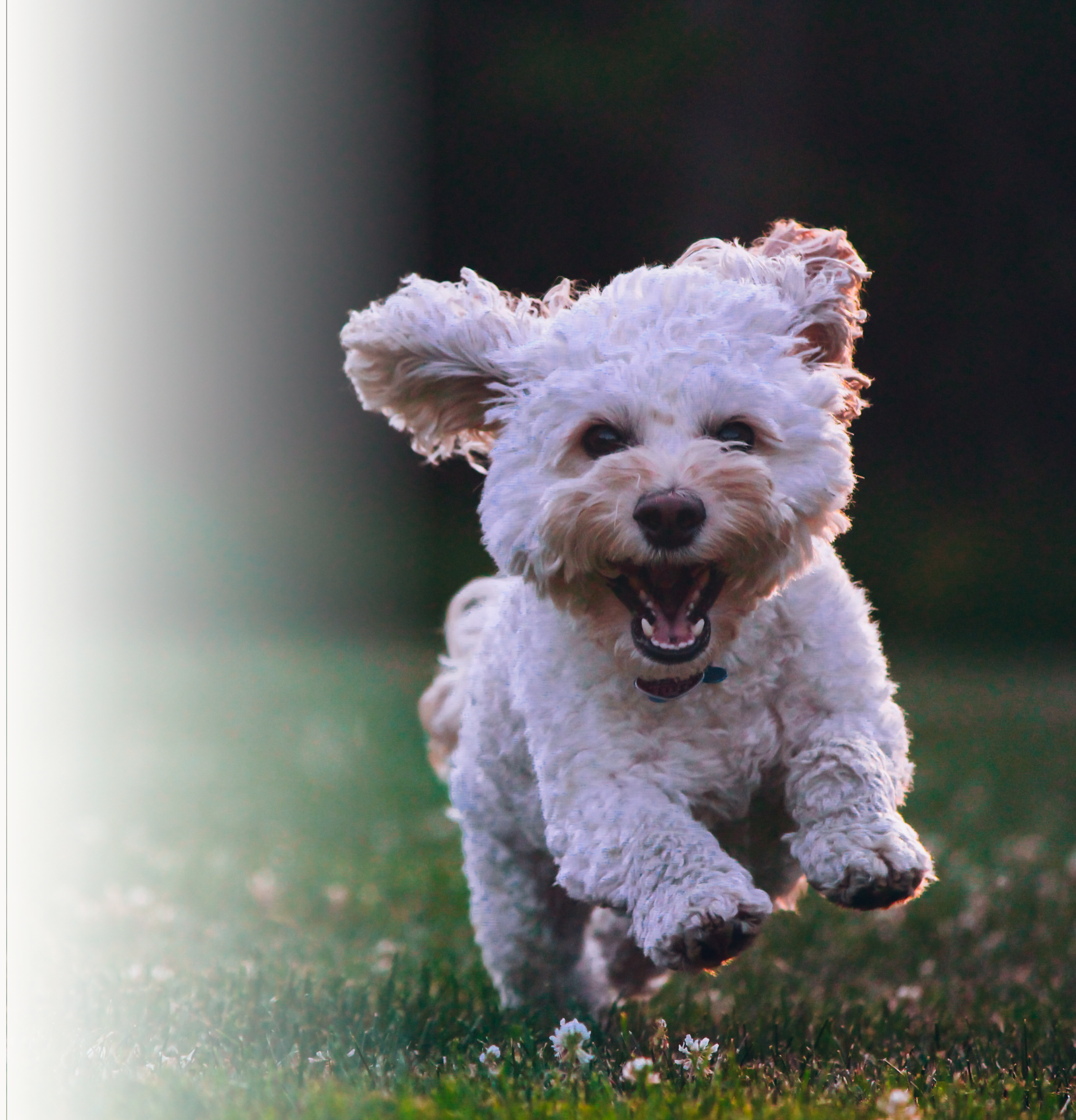
I **wanted** to learn React

I **needed** to learn React

“A decrease in intrinsic motivation when external rewards are offered regardless of outcome.”

Overjustification Effect

Understanding
motivation let's us
create environments
where **success is
likely**



Motivations *can* change

(Unlike data in Redux 😊)

Extrinsic —→ Intrinsic

Extrinsic ← Intrinsic



Foster **positive** and
supportive motivations
for learning
(and everything else)

How do we create a culture that
celebrates learning?

Start by being **honest**
(Admit when you don't know something!)

“You should already know that.”

“You should already know that.”

VS.

“I’m not sure, let’s figure it out **together.**”



Ability To Learn > Already Knowing

(This is empowering!)

Build **empathy** about learning

You can't *unlearn* something...

Listen to those learning it
for the first time

Listen and **act** to create
positive experiences

Try learning a **new** complex skill
(To remind yourself what it's like)

Learning a **new
technology** is
like climbing a
mountain



Build up **others**

Encourage
exploration
of interests



Encourage
exploration
of interests

A photograph of a dog, possibly a Shetland Sheepdog, lying in a field of tall grass. The image is overlaid with a semi-transparent blue filter. In the top right corner, there is a circular inset showing a close-up of green foliage. Large, white, bold letters 'WWA' are superimposed over the lower right portion of the image, partially covering the dog and the grass.

WWA

Play to their **strengths** and knowledge
(And make sure you recognize them!)



Actually **Celebrate!**

VARIETY
PACK

Made With
Real Milk Chocolate! 100
CALORIES

KINDOS

Milk Chocolate Granola Bars

ENLARGED TO
SHOW DETAIL



Your Favorite Chocolate Brands
in the Perfect Size Snack

**30
BARS**

VARIETY PACK

KINDOS

Milk Chocolate Granola Bars



**10
EACH:**



Your Favorite Chocolate Brands
in the Perfect Size Snack

**30
BARS**

Made With
Real Milk Chocolate! 100
CALORIES



ENLARGED TO
SHOW DETAIL



Actually **Celebrate!**

How do we ***learn effectively***?



Research the
scope of what
you need to learn

Build-up knowledge in
well-defined increments

Pick your
projects/tickets/issues
purposefully to learn new skills

Take **breaks**

(Plural, meaning more than one)

Don't underestimate the **power of rest**

Get your **sleep**
(Seriously, it's like magic)



Be **gentle**
to yourself

The journey is long;
don't burn out



The comfort zone is not inherently bad
(It becomes bad when it doesn't celebrate learning)

Foster positive motivations for learning

(Be honest, show empathy, and build up others)

Make your learning more effective

(Make a purposeful plan and take care of yourself)

*What is **your** takeaway?*

Start by being **honest**



Start by being **a dev**
that celebrates
learning

