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Adding Google Analytics to your React Application

JULY 8, 2016 — Jake Bresnehan

Adding any kind of tracking to any project always seems to be an afterthought. Generally just before launching, a stakeholder puts their hand up and states that we need to track everything.... Usually resulting in lots of frustrating mutterings from all developers involved.

The above scenario rings too close to home for me. Just last week I was the developer sitting in "that" meeting realising I needed to add tracking to a React based application in record time. Thankfully, things turned out to be extremely easy. The application I was working on wasn't too complex and was well structured.

This is how I went about it.

The business I was helping uses Google Analytics for all their tracking needs, so we decided to continue with that.

The project relies heavily on <code>°B, npm°B,</code> so by running the following command I made sure the React-GA Module was saved as a dependency in the <code>package.json</code> file like so:

```
npm install react-ga --save
```

Having now installed °, React-GA°, it was time to import the module into the required file and initialise our unique tracking number.

```
import ReactGA from 'react-ga';`
ReactGA.initialize('UA-XXXXXXXX'); //Un
```

The next step was to trigger page views with each view trigger. In my case, I needed to hook into the °,React Router on Update method and fire a function that looked at the hash of the URL due to the history setting of the router.

```
function fireTracking() {
    ReactGA.pageview(window.location.ha:
}

<Router onUpdate={fireTracking} history:
    ...
</Router>
```

One thing to note is you may need to adjust the window.location argument you push to the ReactGA.pageview() function. It will really depend how you have set up React Router.

All in all, pretty straight forward. Around 5 line of code.

With all tracking, the more metrics, the better. So with the above being extremely quick to implement I sat down with he marketing team to work on integrating custom events for particular actions within the app.

I'll save you from the finer details but with the above ground work laid, adding a custom Google Analytics Event within the React application went like this:

Call a function (e.g. handleClick()) within an onClick event that fires a custom event.

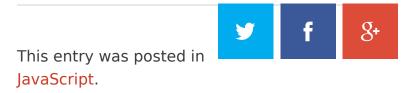
```
import React from 'react';
import ReactGA from 'react-ga';
export default class SomeComponent exter
    handleClick() {
        ReactGA.event({
            category: 'Navigation',
            action: 'Clicked Link',
        });
    }
    render() {
        return (
            <div>
                <a onClick={()=>{this.h;
            </div>
        );
    }
}
```

Hopefully the above gives you a little insight into how to go about adding custom events within your React components.

It's quite a trivial example, but opens the door to lots of possibilities.

Happy tracking!





27 Comments



Minas - December 7th

This was really helpful. Thank you very much!

I really live the React way of reusable components $\ensuremath{\mathfrak{c}}$

Reply



Jeff - December 21st

Thanks for sharing!

It will be really useful on my webpage

Reply



yaron - January 3rd

Thanks very helpful!

Reply



Pawel - January 16th

What are benefits of using a wrapper on top of google analytics script? GA is not impacting state or mechanics of the application at all so why to add another level of complication instead of using pure GA code which additionally comes from Google's CDN?

Reply



Faiz - January 17th

Using a wrapper can be extremely useful in two cases.

1- If google chooses to update their api. They did so when they moved from ga.js to analytics.js
2- In case you also want some other 3rd party analytics website to have the same event, you could do so just by adding that API in the wrapper after the GA code.



Suvantech - January 18th

Its very informative for our development company. Thank you for sharing.

Reply



Omari W. - February 17th

What about retrieving the view count data from GA to display it in the app?

Reply



kamal mondal - March 27th

this is very helpful and useful for me.thanks

Reply



Leon - April 3rd

Good point, though the other recommended option would be using Google Tag Manager especially if you have multiple TLDs. Plus any other scripts will be with GTM so you will have your clean React Code kept clean

Reply



Keira Depp - October 12th

Amazing blog, I am also learning SEO so these points are really helpful for me.Points are really well explain and easily understandable.

Reply



Robert Balazsi - January 4th

Good stuff, thanks for sharing! I have a question, though: is it automatically disabled in 'development' profile or do you have to check for it each time?

Reply



Pankaja - March 21st

Hey, I followed this article and configured Google Analytics in my app which I've hosted on github. But Google Analytics doesn't work on it.

Can you please look into this and give me some insight? https://stackoverflow.com/questions/49398355/google-analytics-on-react-app-doesnt-work

Reply



Robin - May 5th

Is this a valid translation gtag() to ReactGA.event? gtag('event', 'conversion', { 'allow_custom_scripts': true, 'send_to': 'DC-XXXXXXXX/sheduspr /sheds0+standard' }); ReactGA.initialize('DC-XXXXXXXX'); ReactGA.event({'event': 'conversion', 'allow_custom_scripts': true, 'send_to': 'DC-XXXXXXXXX/sheduspr /sheds0+standard' });

Reply



Akuna Tech - May 14th

Thanks for sharing this guide for Google analytics implementation on react application. Google analytics has so much contained in itself that every time you go to explore anything, you will get to know 3-4 additional areas to explore and to do R&D. Being a huge fan of Google Analytics, I love it's features and quantitative data that I can use for further advancement of my website promotion strategy.

Reply



Sandeep yadav - May 25th

This was helpful article by you.

Thanks for sharing your knowledge with us.

Reply



Brycen Jakob - June 13th

It is a very advantageous post for me. I've enjoyed reading the post. It is very supportive and useful post. Thanks for sharing this so interesting post! I really want to be thankful for the way you have put it here.

Reply



Anil Patel - June 14th

NIce blog Tips, Thank You for sharing

Reply



Alex - June 29th

Great post!! I have a question though. How to use reactga.initiliasize when track id is fetched from a server. I'm trying it inside a function but i get an error that cannot read property parentNode of undefined

Reply



Intellisense tech - July 17th

Thank you for sharing this post. It is helpful.

Reply



Adrian - August 28th

How do you set up analytics for page load time?

Reply



inspiringwave - September 14th

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Shams Tabrez - September 30th

Thanks for the very useful tips. Every point is important. big fan, thank you!

Reply



rohit - October 27th

Nice post, very informative article.

Reply



Kocibar - November 6th

thank you, helped a lot

Reply



Manoj Khanna - December 18th

Decipher Zone Softwares is a leading outsourcing Java development company which specializes in Website, Java development, Java web application development, blockchain development where trailblazing customizable software solutions are developed with agile methodology at unbelievably low cost.

Reply



lukasz - January 18th

Thank you! Short, easy and very helpful!

Reply



William - February 22nd

> Just last week I was the developer sitting in "that" meeting realizing I needed to add tracking to a React based application in record time.

Well, I have exciting news to share with you! At Segment, we just recently open sourced our React quickstart guide. You can track page visits with react-router and user behavior all within React components using a single API. Here is an example of tracking a User Signup click using an event handler:

export default class SignupButton
extends Component {
trackEvent() {
 window.analytics.track('User
 Signup');
 }
 render() {
 return (
 Signup with Segment today!
);
 }
 }
 ''`
 I'm the maintainer of

https://github.com/segmentio/analytics-react. I recommend

This post currently has 27 responses. What do you think?

You can use basic HTML when posting code, please turn all < characters into < or > into > If the code is multi-line, use </code>

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