

My first L<sup>A</sup>T<sub>E</sub>X document

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# 1 Introduction

This is a test document(Author 2020) This is a test documentEinstein (1905)

column one	column two	column three	column four
col1	col2	col3	col4
col1	col2	col3	col4
col1	col2	col3	col4
col1	col2	col3	col4
col1	col2	col3	col4

Table 1: First table

We present a 5<sup>th</sup> scalable 5<sup>2</sup> dynamic<sub>subscript</sub> analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps’ compliance with the Children’s Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children’s apps, we found that a majority are potentially in violation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority of apps either do not make use of these options or incorrectly propagate them across mediation SDKs.

```

<!DOCTYPE html>
<html>
<head>
<title>Simple HTML Table</title>
<style>
    table, th, td {
        border: 1px solid black;
        border-collapse: collapse;
    }
    th, td {
        padding: 8px;
        text-align: left;
    }
</style>
</head>
<body>

<h1>My Simple Table</h1>

<table>
    <thead>
        <tr>
            <th>Name</th>
            <th>Age</th>
            <th>City</th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>Alice</td>
            <td>30</td>
            <td>New York</td>
        </tr>
        <tr>
            <td>Bob</td>
            <td>24</td>
            <td>London</td>
        </tr>
        <tr>
            <td>Charlie</td>
            <td>35</td>
            <td>Paris</td>
        </tr>
    </tbody>
</table>

```

```
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
<title>Very Simple HTML Table to begin</title>
<style>
    table, th, td {
        border: 1px solid black;
        border-collapse: collapse;
    }
    th, td {
        padding: 8px;
        text-align: left;
    }
</style>
</head>
<body>
```

```
<h1>My Simple Table</h1>
```

```
<table>
  <thead>
    <tr>
      <th>Name</th>
      <th>Age</th>
      <th>City</th>
    </tr>
  </thead>
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      <td>London</td>
    </tr>
    <tr>
      <td>Charlie</td>
      <td>35</td>
      <td>Paris</td>
```

```

    </tr>
  </tbody>
</table>

</body>
</html>

```

We present a scalable dynamic analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps' compliance with the Children's Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children's apps, we found that a majority are potentially in violation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority of apps either do not make use of these options or incorrectly propagate them across mediation SDKs.

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## 2 Background

We present a scalable dynamic analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps.

We use our system<sup>1</sup> to analyze mobile apps' compliance with the Children's Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated

29.3 Item one

44.5 Item one

– Item two

53 Item two

1. One

2. Two

(a) Two-One

(b) Two-Two

3. Three

analysis of “5,855” of the most popular free children's apps, we found that a majority are potentially inviolation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority of apps either do not make use of these options or incorrectly propagate them across mediation SDKs. We present a scalable dynamic analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps' compliance with the

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<sup>1</sup>This is a footnote

Children’s Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children’s apps, we found that a majority are potentially in violation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority of apps either do not make use of these options or incorrectly propagate them across mediation SDKs.

## 2.1 Sub Topic

We present a scalable dynamic **analysis framework** that allows for the **automatic** evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps' compliance Figure 1 with the Children's Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children's apps, we found that a majority are potentially inviolation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority of apps either do not make use of these optionsor incorrectly propagate them across mediation SDKs.



Figure 1: my poor image

### Sub Sub Topic

We present a scalable dynamic analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps' compliance with the Children's Online Privacy 1 Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children's apps, we found that a majority are potentially inviolation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data sug-



Figure 2: my poor image

gest that a majority of apps either do not make use of these options or incorrectly propagate them across mediation SDKs.

### 2.1.1 Sub Sub Topic 2

We present a scalable dynamic analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps' compliance with the Children's Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children's apps, we found that a majority are potentially in violation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority of apps either do not make use of these options or incorrectly propagate them across mediation SDKs. We present a scalable dynamic analysis framework that allows for the automatic evaluation of the privacy behaviors of Android apps. We use our system to analyze mobile apps' compliance with the Children's Online Privacy Protection Act (COPPA), one of the few stringent privacy laws in the U.S. Based on our automated analysis of 5,855 of the most popular free children's apps, we found that a majority are potentially in violation of COPPA, mainly due to their use of thirdparty SDKs. While many of these SDKs offer configuration options to respect COPPA by disabling tracking and behavioral advertising, our data suggest that a majority

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