1
2
3 Natively 'Automating' {
4
5   [Your Workflow]
6
7
8
9   < A Dive into `GitHub Actions` >
10
11
12 }
13
14

Google Developer Groups

```
1    The 'Agenda' {
2
3
4        01    Introduction
5
6              < Concept & Benefits >
7
8                    02    Getting Started
9
10                         < Basics & Use cases >
11
12                               03    Best Practices
13
14    }                                < Tips & More >
```

Google Developer Groups

```
1
2   01 {
3
4
5
6      [Introduction]
7
8
9         < Concept & Benefits >
10
11
12      }
13
14
```
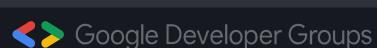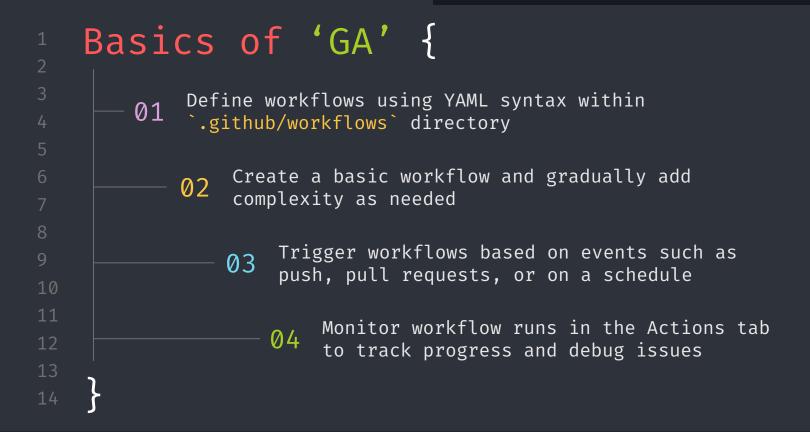
Google Developer Groups

```
1    Concept of 'GA' {
2
3
4        'GA is a feature of GitHub that allows you to
5        automate workflows directly within your
6        repository'
7            <info Provides a way to define custom `CI/CD`
8            pipelines and automate various tasks such as
9            testing, building, and deploying code >
10
11
12          </info>
13
14    }
```

1 # Benefits of 'GA'{

2

3

4 ## Automation   ## Integration

5 `< Streamline`   `< Continuously`

6 `repetitive &`   `integrate, test,`
   `tedious tasks >`   `deploy & release  >`

7

8

9

10 ## Flexibility   ## Community

11 `< Custom workflows`   `< Pre-built actions`

12 `tailored to your`   `created by the`
    `scale & needs >`   `community >`

13

14 }

Natively Automating Your Workflow   Google Developer Groups

1
2
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4
5
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7
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9
10
11
12
13
14

02 {

[Getting Started]

< Basics & Use cases >

}

Google Developer Groups

```
1    Basics of 'GA' {
2
3    ─── 01  Define workflows using YAML syntax within
4            `.github/workflows` directory
5
6    ─── 02  Create a basic workflow and gradually add
7            complexity as needed
8
9    ─── 03  Trigger workflows based on events such as
10           push, pull requests, or on a schedule
11
12   ─── 04  Monitor workflow runs in the Actions tab
13           to track progress and debug issues
14   }
```

1 Use cases of 'GA'{
2
3
4   CI
5   [🔴]   < Build & test code
6   changes >
7
8
9
10   Test & CQC
11   [🔍]   < Run tests & code
12   quality checks >
13
14 }

          CD
     [✈]   < Deploy code
            changes to
            (pre)production >

          Release

     [🚀]   < Release & deploy
            to production >

```
1
2    03 {
3
4
5
6        [Best Practices]
7
8
9            < Tips & More >
10
11
12   }
13
14
```

Google Developer Groups

```
 1    Keep it Modular < /1 > {
 2
 3         [△]  < Keep workflows modular and reusable to
 4              promote maintainability >
 5
 6    }
 7
 8
 9    GitHub Marketplace < /2 > {
10
11         [💻]  < Leverage GitHub Marketplace for pre-built
12              actions to accelerate development >
13
14    }
```

Natively Automating Your Workflow   Google Developer Groups

```
1     Use ENV Vars < /3 > {
2
3         [🛡️]  < Utilize environment variables securely to
4                manage sensitive/centralized data >
5
6     }
7
8
9     Cache when you can < /4 > {
10
11        [⏳]  < Use caching to optimize workflow performance
12               and reduce execution time >
13
14    }
```

Natively Automating Your Workflow   Google Developer Groups

```
1   Thanks; {
2
3       'Do you have any questions?'
4
5           - hello[at]harryvasanth.com
6           - github.com/harryvasanth
7
8
9
10
11
12          < (□) All rights reversed. Please, do with it what you will. >
13
14  }   * All iconography in this presentation are taken from www.flaticons.com, and the theme of the presentation is a heavily
        customized version from www.slidesgo.com.
```

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