

Continuous Learning for Developers

Brian MacDonald

All Things Open 2019

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```

14 <!--[if lt IE 9]><script src="http://gmpg.org/xfn/11"></script></if></head>
15 <body <?php wp_head();?>
16 <div id="page-header" class="hfeed site">
17 <?php
18 $theme_options = fruitful_get_theme_options();
19 $logo_pos = $menu_pos = '';
20 if (isset($theme_options['logo_position']))
21     $logo_pos = esc_attr($theme_options['logo_position']);
22 if (isset($theme_options['menu_position']))
23     $menu_pos = esc_attr($theme_options['menu_position']);
24 $logo_pos_class = fruitful_get_theme_option('logo_position');
25 $menu_pos_class = fruitful_get_theme_option('menu_position');
26 $responsive_menu_type = fruitful_get_theme_option('responsive_menu_type');
27 $responsive = fruitful_get_theme_option('responsive');
28 </div>
29 <div id="main-content" class="main-content">
30 <?php
31 $page_title = wp_title('|', true, 'right');
32 $page_title = $page_title;
33 <?php
34 $page_title = $page_title;
35 </div>

```

“Learn at least one new language every year.”

--Andy Hunt & Dave Thomas,
The Pragmatic Programmer

Goals

Maximize
learning for
your investment

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The Key: Engagement

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The Key: Engagement



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Big Takeaway #1:

You can get “in the zone” for learning

The Key: Engagement

Externals

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The Key: Engagement

Externals:
Physical needs

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The Key: Engagement

Externals:
Physical needs
Location

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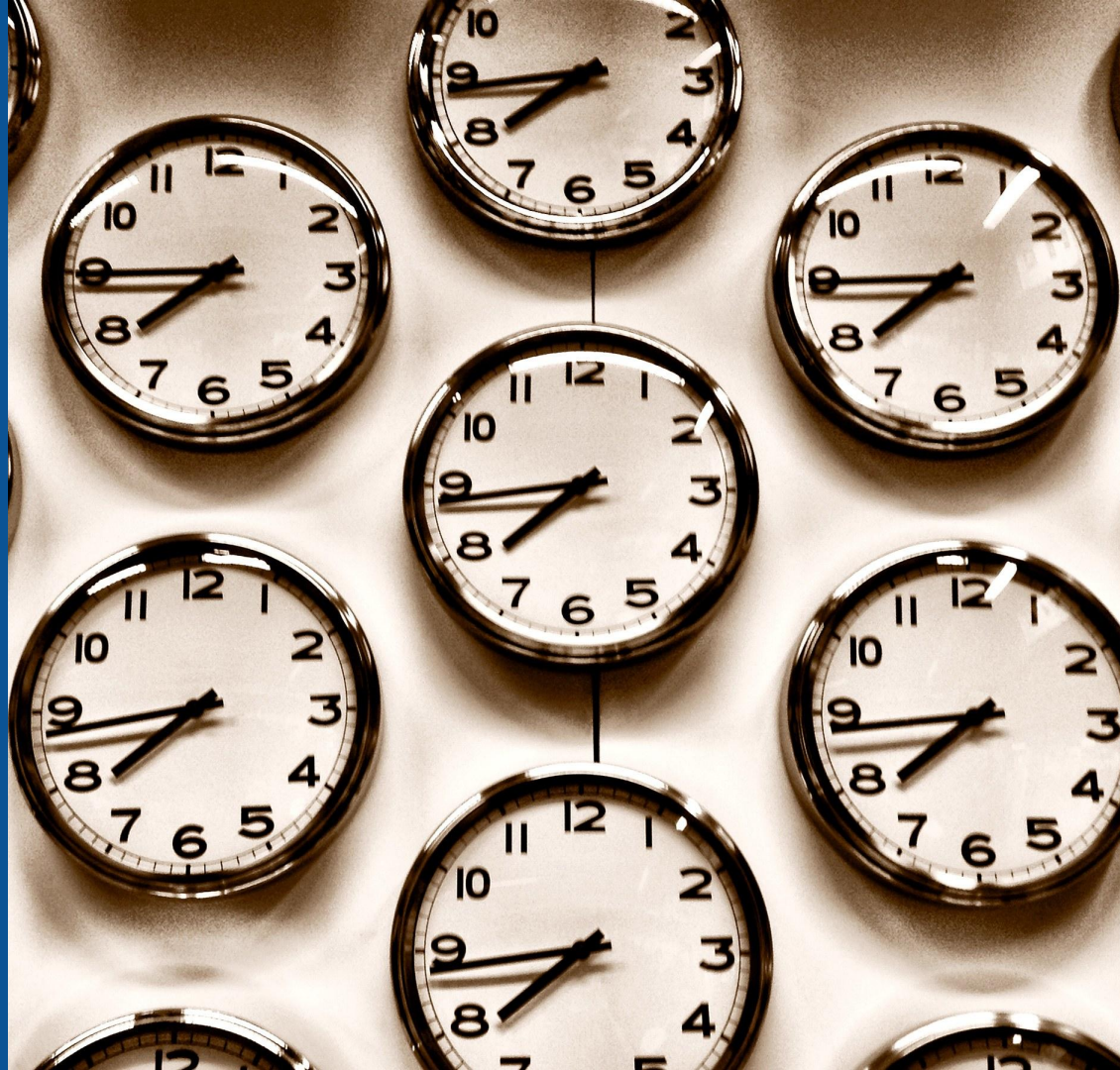


The Key: Engagement

Externals:
Physical needs
Location
Enough time

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The Key: Engagement

Mental attitude

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The Key: Engagement

What do I want to DO?

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The Key: Engagement

Mental attitude:
When it's not your
choice

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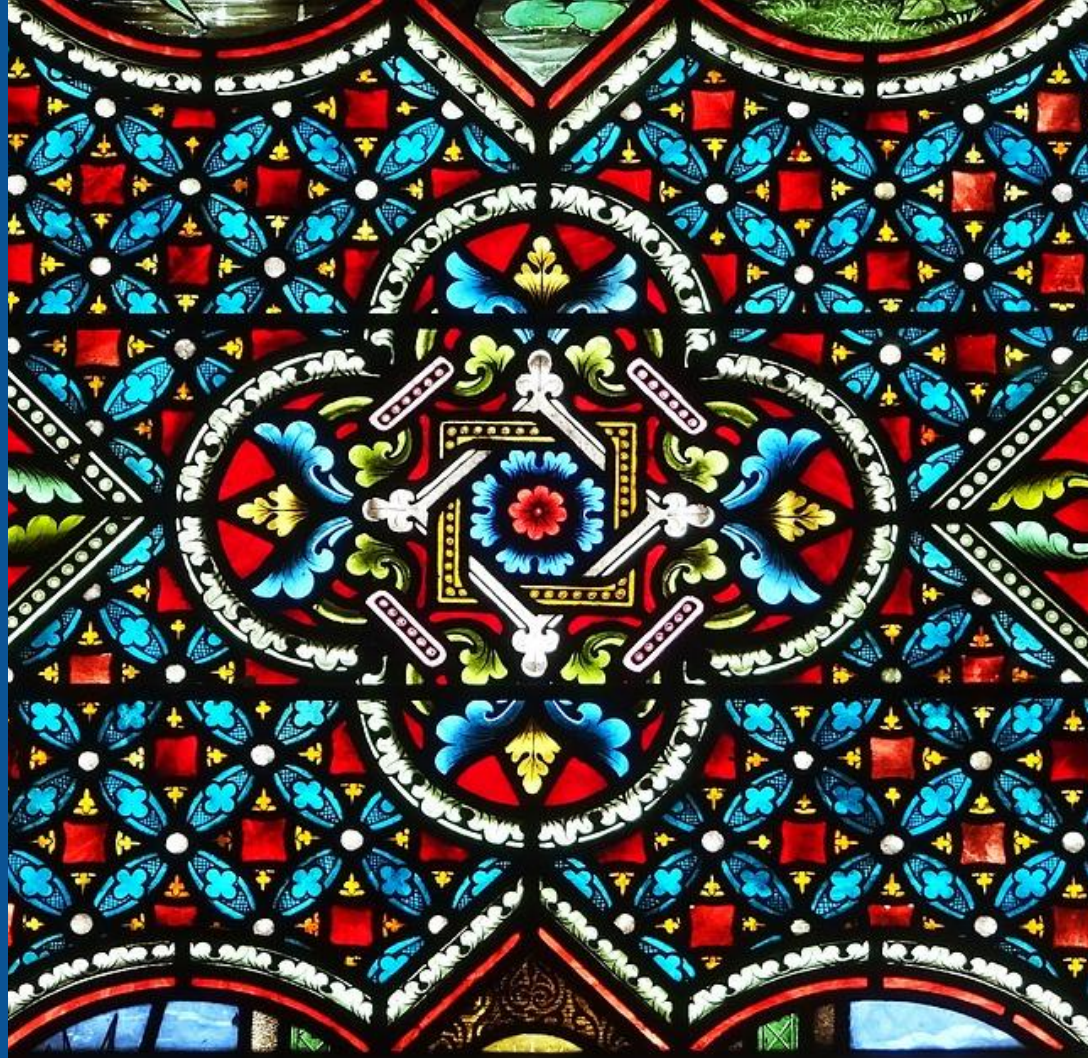
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Learning Styles

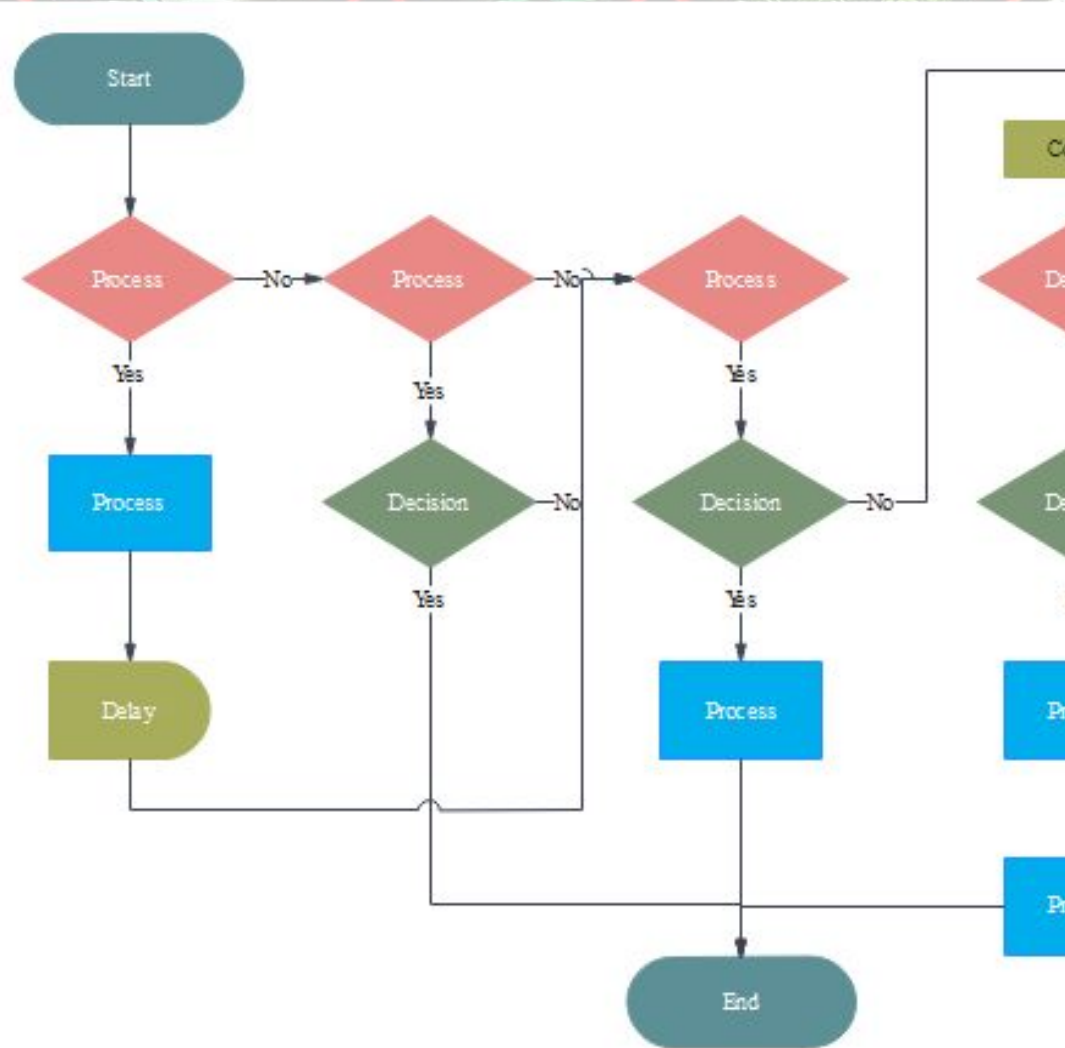
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Learning Styles

Visual
A
R
K



Learning Styles

Visual
Auditory
R
K

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Learning Styles

Visual

Aural

Reading/Writing

K

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Learning Styles

Visual

Aural

Reading/Writing

Kinesthetic

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Learning Styles

Visual

Aural

Reading/Writing

Kinesthetic

Amounts to personal
preference



Big Takeaway #2:

Practice, practice, practice

Let's talk formats



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Books

Reading/Writing
Kinesthetic
Visual

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Books

Sources:

Pragmatic

O'Reilly

Apress

Wrox

Wiley

Manning

No Starch

Addison-Wesley

Prentice Hall

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Video

Visual
Kinesthetic
Audio

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Video

Sources:

Pluralsight

LinkedIn Learning

Khan Academy

Codecademy

Treehouse

Udemy

Frontend Masters

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Interactive

Kinesthetic

Audio

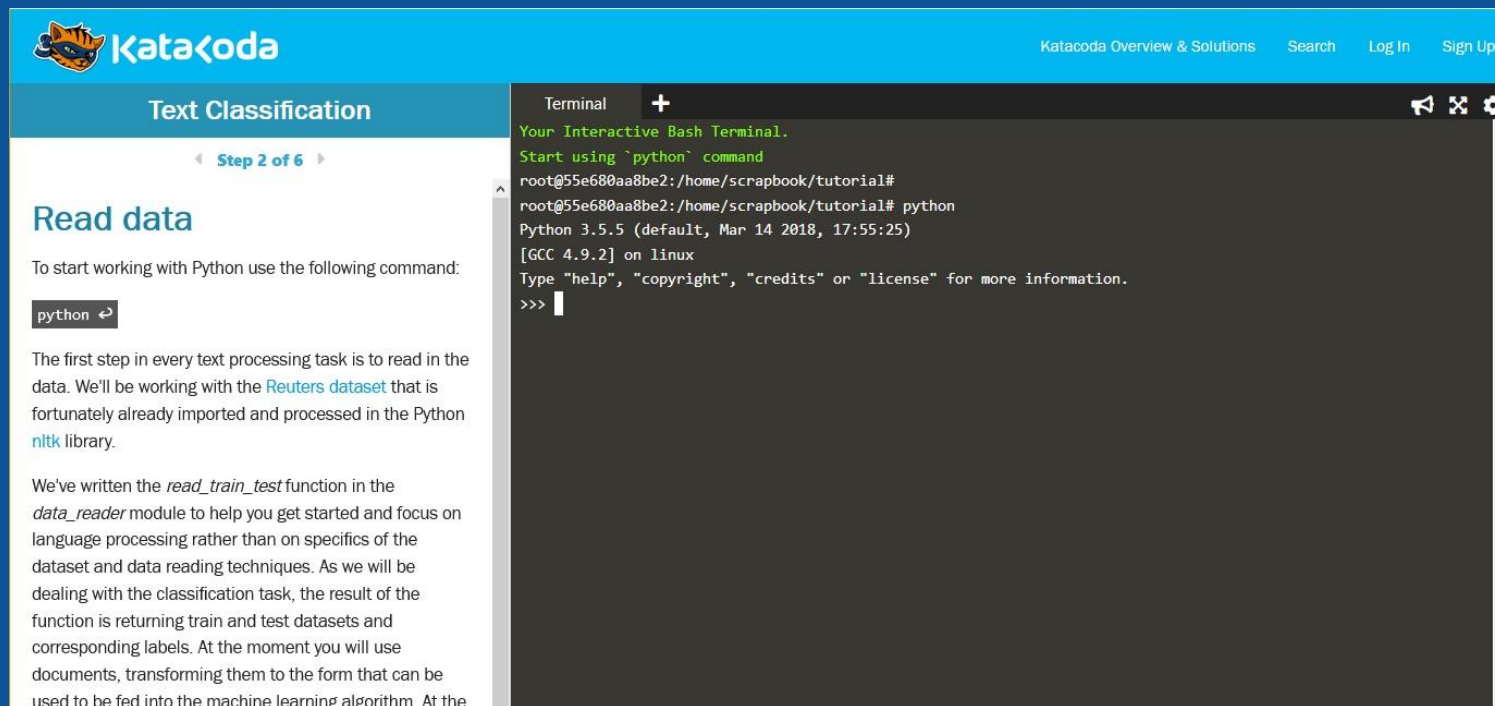
Reading/Writing

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Interactive



The screenshot displays the Katacoda web interface. The top navigation bar is blue with the Katacoda logo on the left and links for 'Katacoda Overview & Solutions', 'Search', 'Log In', and 'Sign Up' on the right. Below this, a teal header for the 'Text Classification' tutorial is visible, with 'Step 2 of 6' indicated. The main content area on the left contains the text 'Read data' and instructions on how to start working with Python. A code block shows the command 'python'. To the right, a terminal window is open, showing the command prompt and the output of the 'python' command, which includes the Python version (3.5.5) and the GCC version (4.9.2).

Katacoda Katacoda Overview & Solutions Search Log In Sign Up

Text Classification

◀ Step 2 of 6 ▶

Read data

To start working with Python use the following command:

```
python ↵
```

The first step in every text processing task is to read in the data. We'll be working with the [Reuters dataset](#) that is fortunately already imported and processed in the Python [nltk](#) library.

We've written the `read_train_test` function in the `data_reader` module to help you get started and focus on language processing rather than on specifics of the dataset and data reading techniques. As we will be dealing with the classification task, the result of the function is returning train and test datasets and corresponding labels. At the moment you will use documents, transforming them to the form that can be used to be fed into the machine learning algorithm. At the

Terminal +

Your Interactive Bash Terminal.
Start using `python` command

```
root@55e680aa8be2:/home/scrapbook/tutorial#  
root@55e680aa8be2:/home/scrapbook/tutorial# python  
Python 3.5.5 (default, Mar 14 2018, 17:55:25)  
[GCC 4.9.2] on linux  
Type "help", "copyright", "credits" or "license" for more information.  
>>> |
```


Interactive

Sources:

Katacoda

Treehouse

Udacity

Coderbyte

DataCamp

Exercism

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Training

Audio
Kinesthetic
Reading/Writing

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Training

Sources:

Coursera

Skillshare

Boot camps

Consultants

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Sidebar: online tutorials



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Selecting a Format



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Selecting a Format

Pacing

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Pacing



Selecting a Format

Pacing Practice

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Practice

Interactive

Training

Video Books

Lots of
practice

Little
practice

Selecting a Format

Pacing
Practice
Feedback

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Feedback

Training

Interactive

Video
Books

Lots of
feedback

Little
feedback

Selecting a Format

Pacing
Practice
Feedback
Cost

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Cost



Selecting a Format

Pacing
Practice
Feedback
Cost
Availability

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Availability

Books

Video

Interactive

Training

High
availability

Limited
availability

Which to choose?



Which to choose?

Resources a factor?
Books / Video

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Which to choose?

Resources a factor?

Books / Video

Have resources, but solo?

Interactive

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Which to choose?

Resources a factor?

Books / Video

Have resources, but solo?

Interactive

Have resources and a group?

Training



Which to choose?

None of this is foolproof

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Which to choose?

Find out in advance:
Read the reviews



Which to choose?

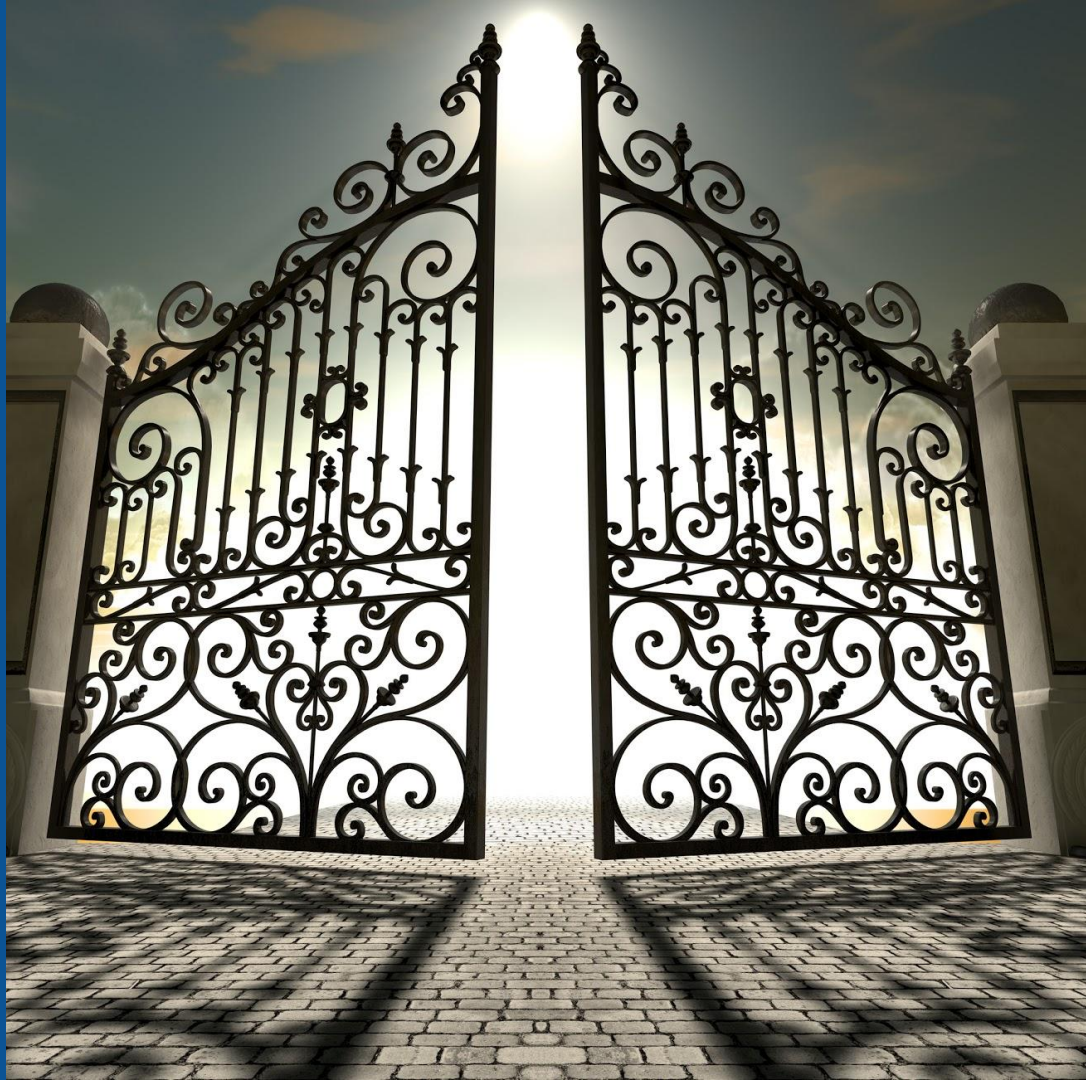
Find out in advance:

Read the reviews

Trust the gatekeepers

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Which to choose?

Find out in advance:

Read the reviews

Trust the gatekeepers

Find the free samples

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When to cut your losses

Sometimes,
stuff goes
wrong



When to cut your losses

Find the source
of the problem
-- ask questions



When to cut your losses

Avoid the sunk
cost fallacy



Big Takeaway #3:

If it's not working for you, find something that does

Mix and match



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Working in groups

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Working in groups

If it goes well

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Working in groups

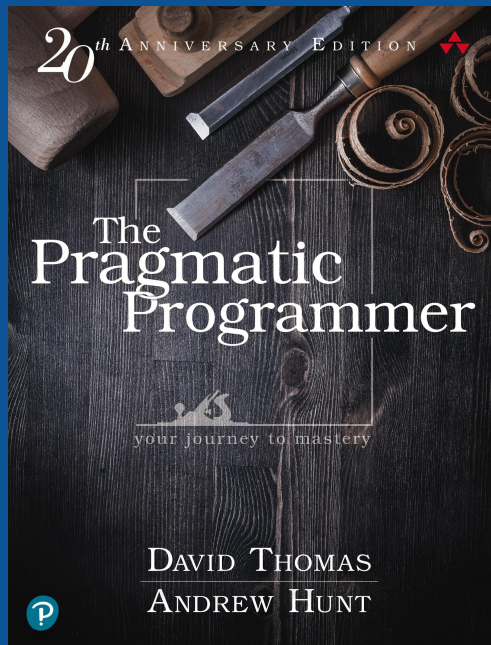
If it goes poorly

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End Slide



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