BUILDING A SATISFYING APP

Brent & Alisa

Eagle Business Software

- Intro: Eagle Business Software
- Designing an app
- MVP & feedback cycles
- View Model
- UI testing
- Characteristics of a satisfying app
- Q&A

Eagle Business Software

Helping individuals and organizations flourish

Who are we?

- Enterprise Resource Planning solutions for small to medium sized businesses
- 40+ employees
- In business in Pennsylvania since 1989
- Building a community of development companies

Eagle Business Software

Helping individuals and organizations flourish

Who do we serve?

- Around 500 active clients all over the United States and Canada (nearly 4000 users)
- Automotive industry, equipment and supply centers, manufacturers, etc.

Eagle Business Software

Helping individuals and organizations flourish

Eagle and Silk Road Professionals

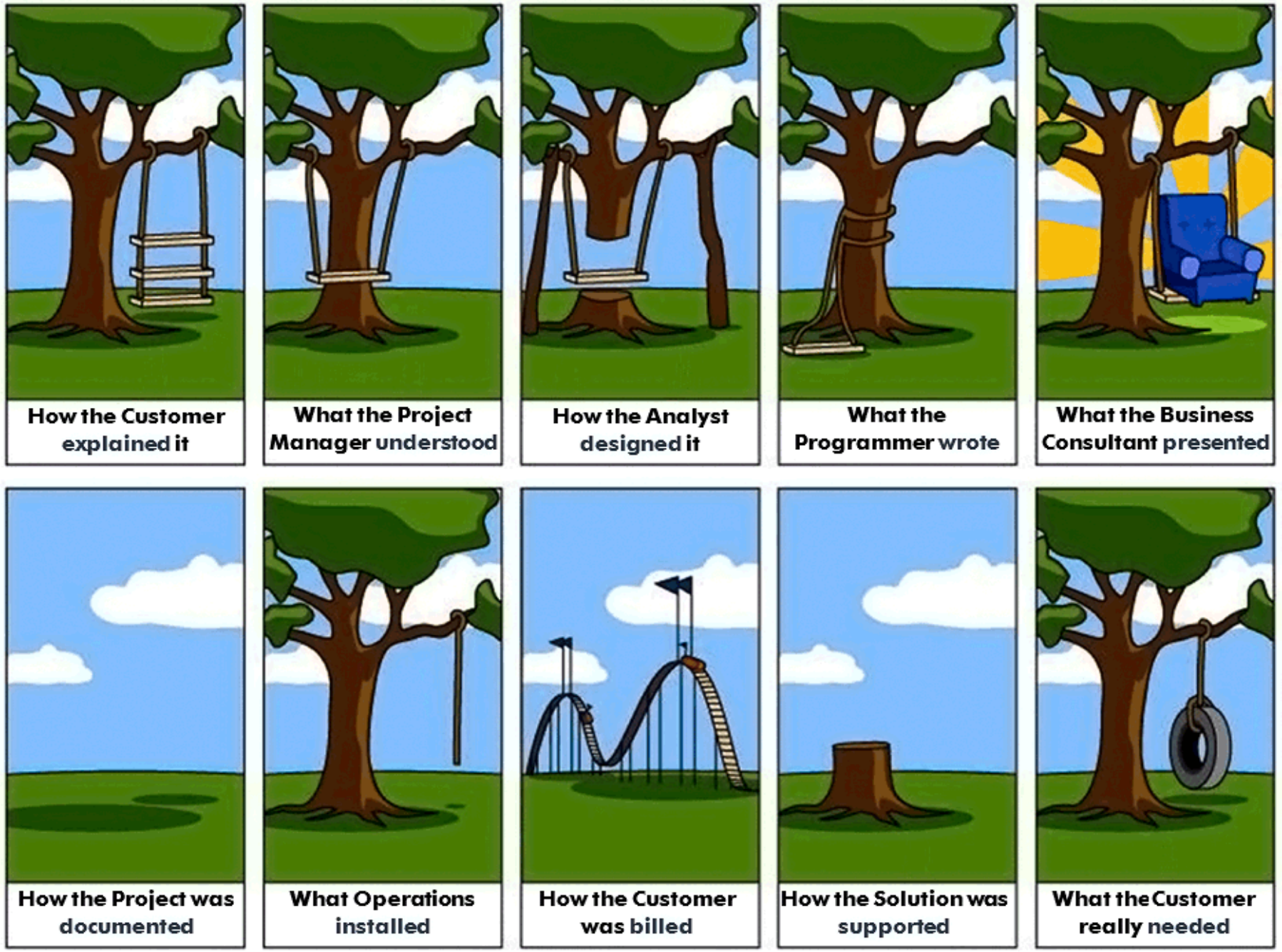
- Closely partnered with SRP since it was founded
- Our teams work closely together
- Key long-term partnership

BUILDING A SATISFYING APP

Delivering what your user needs

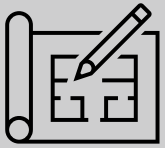
Know your user

Process	Understand their processes
Scenarios	Gather scenarios
Pain points	Know what causes pain
Priority	80/20 rule



Know your user!

Know your user

Listen	Listen to your user
Gather	Gather requirements
Design	Design it yourself 

Know your user

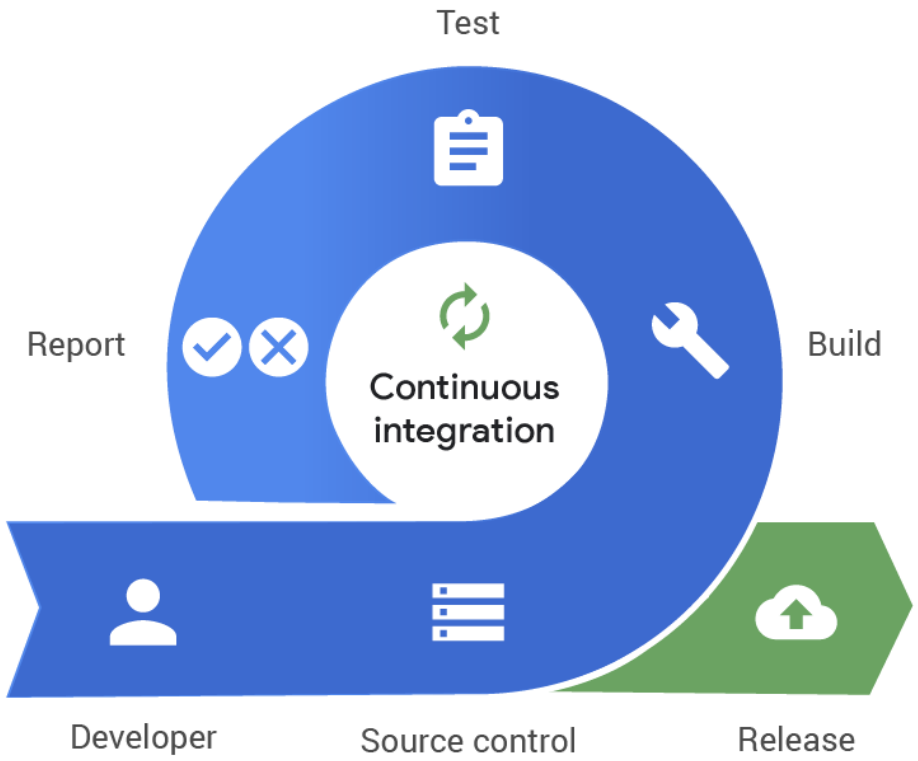
Release early and often

CONTINUOUS INTEGRATION

MINIMUM VIABLE PRODUCT

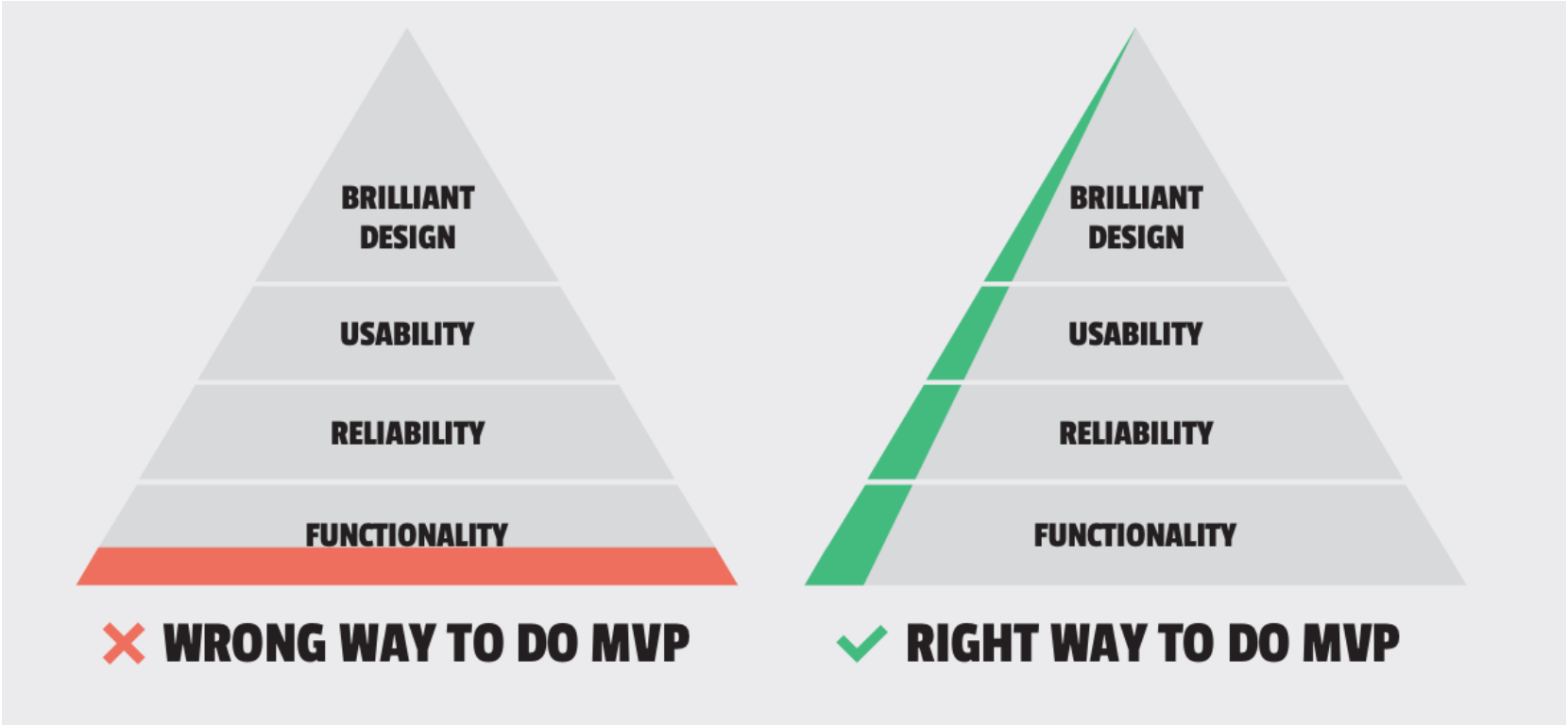
FEEDBACK CYCLES

BETA USERS



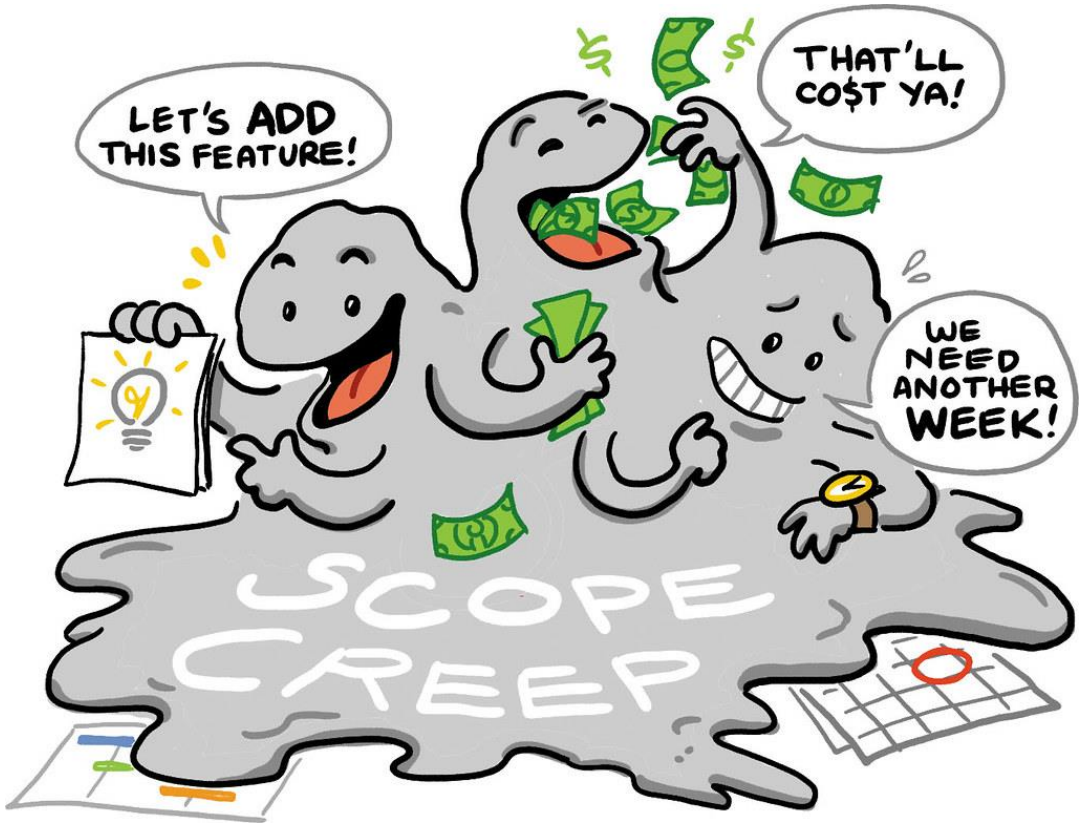
Continuous Integration

- *Stability*
- *Reliability*
- *Quick release cycle*



Minimum Viable Product

- *Avoids scope creep*
- *Early usability*
- *Early feedback*



Minimum Viable Product

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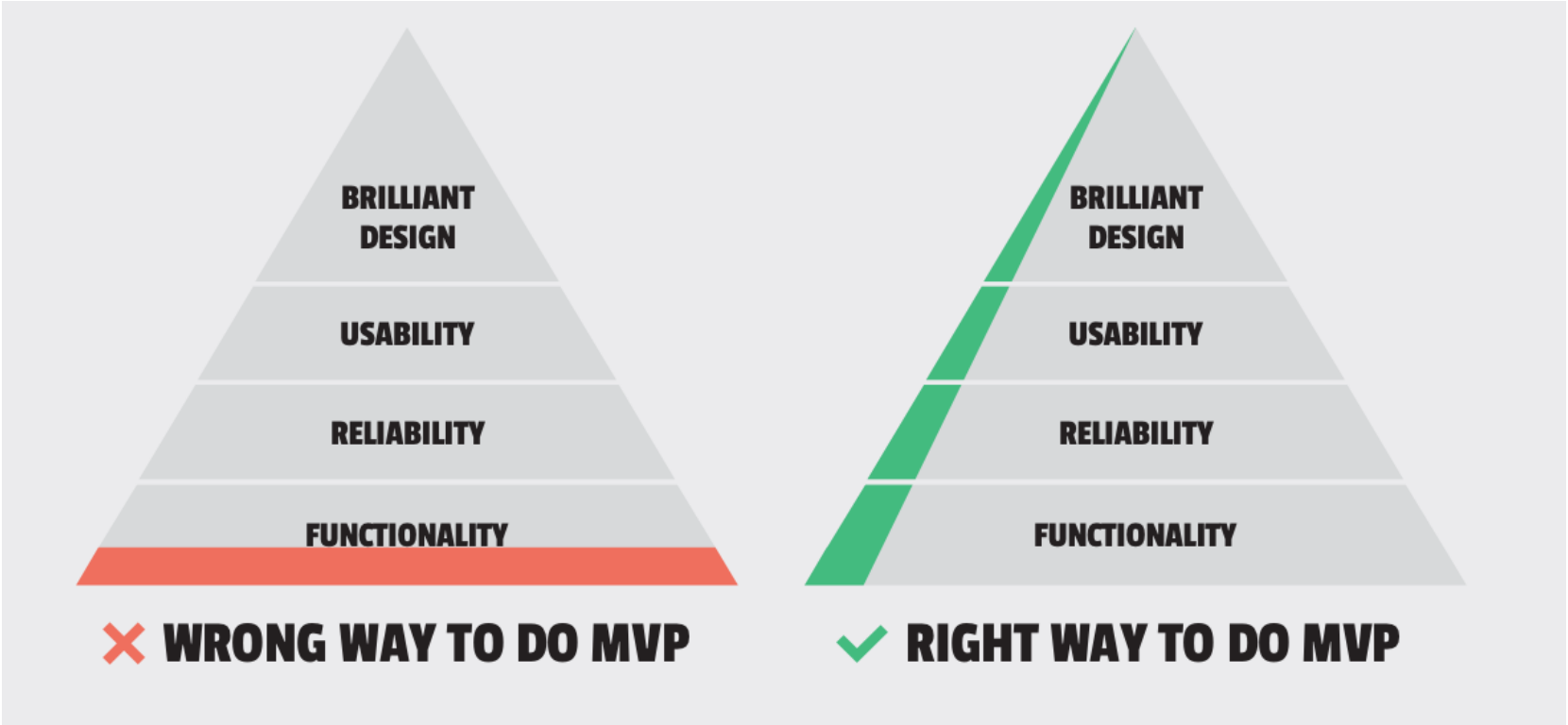
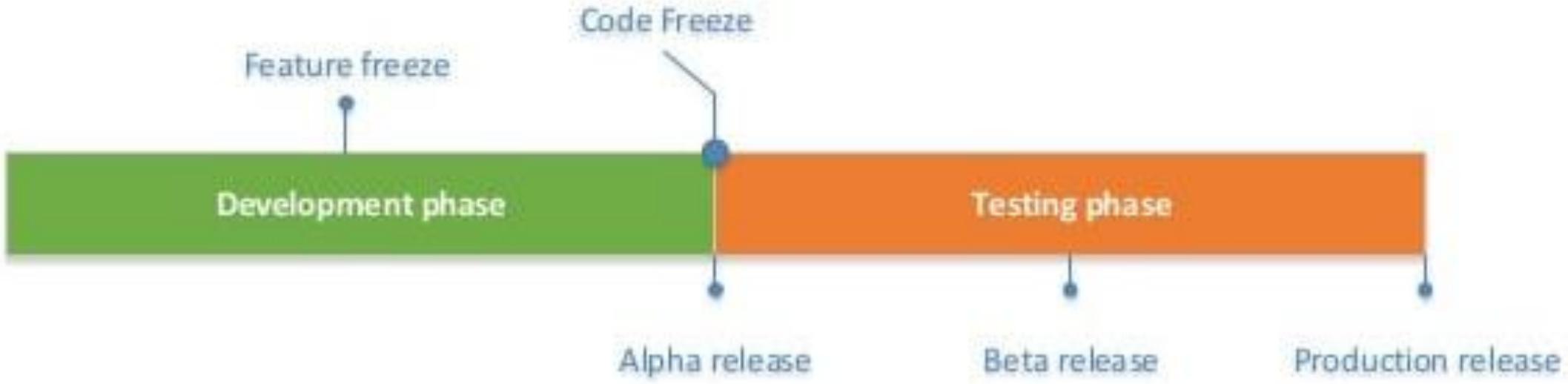


Minimum Viable Product

- *Avoids scope creep*
- *Early usability*
- *Early feedback*

Feedback cycles

- *Lower risk of design misunderstandings*
- *User confidence*
- *Results in the product that the user wanted*



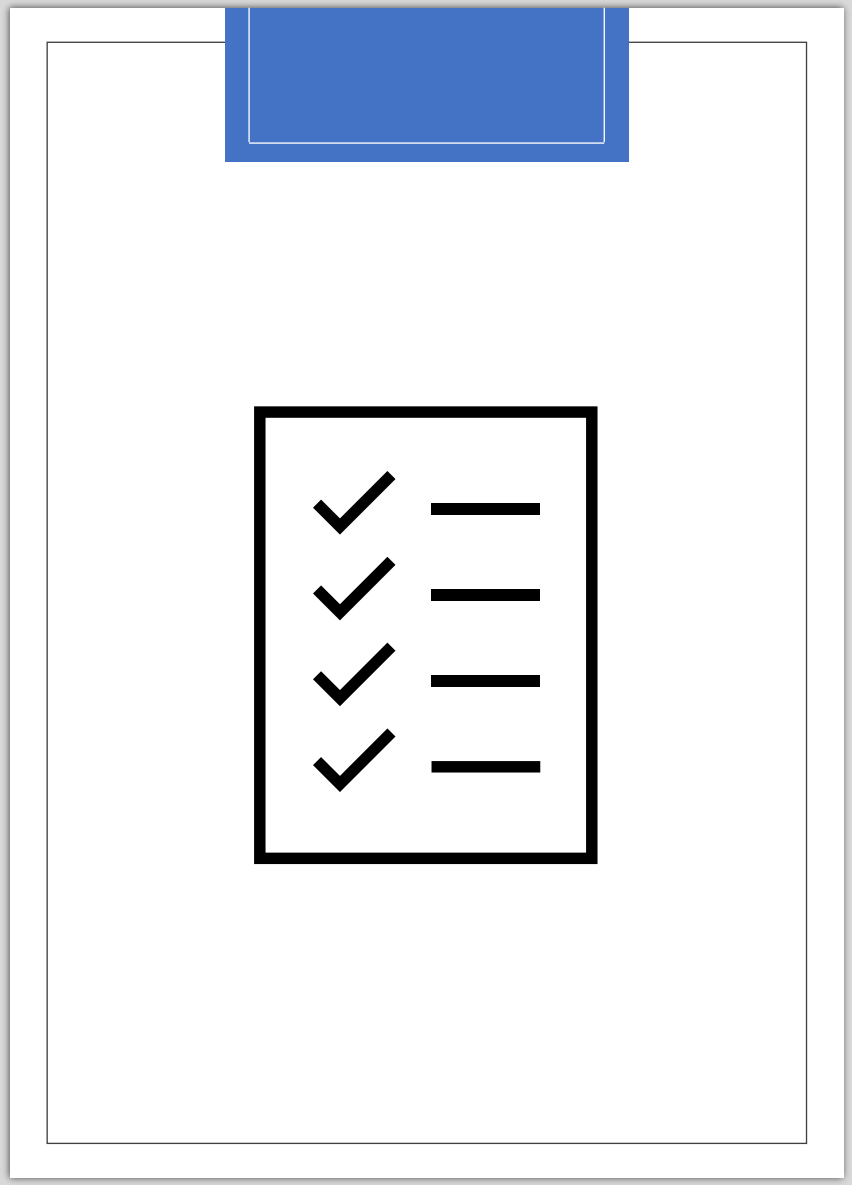
Beta users and releases

- *Early access for key users*
- *Higher quality general release*
- *Free testing ☺*
- *Regular communication with beta users*

View Model

Many platforms

Unit testable



UI TESTS

UI TEST EXAMPLE

```
[Test]
1 reference | Alisa Esh, 154 days ago | 1 author, 1 change
private void CreateAndEditNewSalesOrderTest()
{
    var orderPage = ShippingPage.CreateNew<SalesOrderPage>();

    orderPage.Id.SearchAndSelect("ARDLAN", "Arden's Landscaping", "ARDLAN");

    orderPage.NewSalesOrderDetail.Tap();
    orderPage.InventoryItem.SearchAndSelect("0709", "Ear Clamps", "0709");

    UIElement.Marked("FinishCommand").Tap();

    orderPage.WaitForNotLoading();
    var clampDetail = UIElement.Text("0709");
    clampDetail.Tap();

    orderPage.InventoryItem.WaitForExists();

    UIElement.Marked("Remove").Tap();
    clampDetail.WaitForNotExist(); //This detail should have been deleted.

    orderPage.DiscardCommand.Tap();
    UIElement.Text("Discard changes").Tap();
}
```

CHARACTERISTICS OF A SATISFYING APP

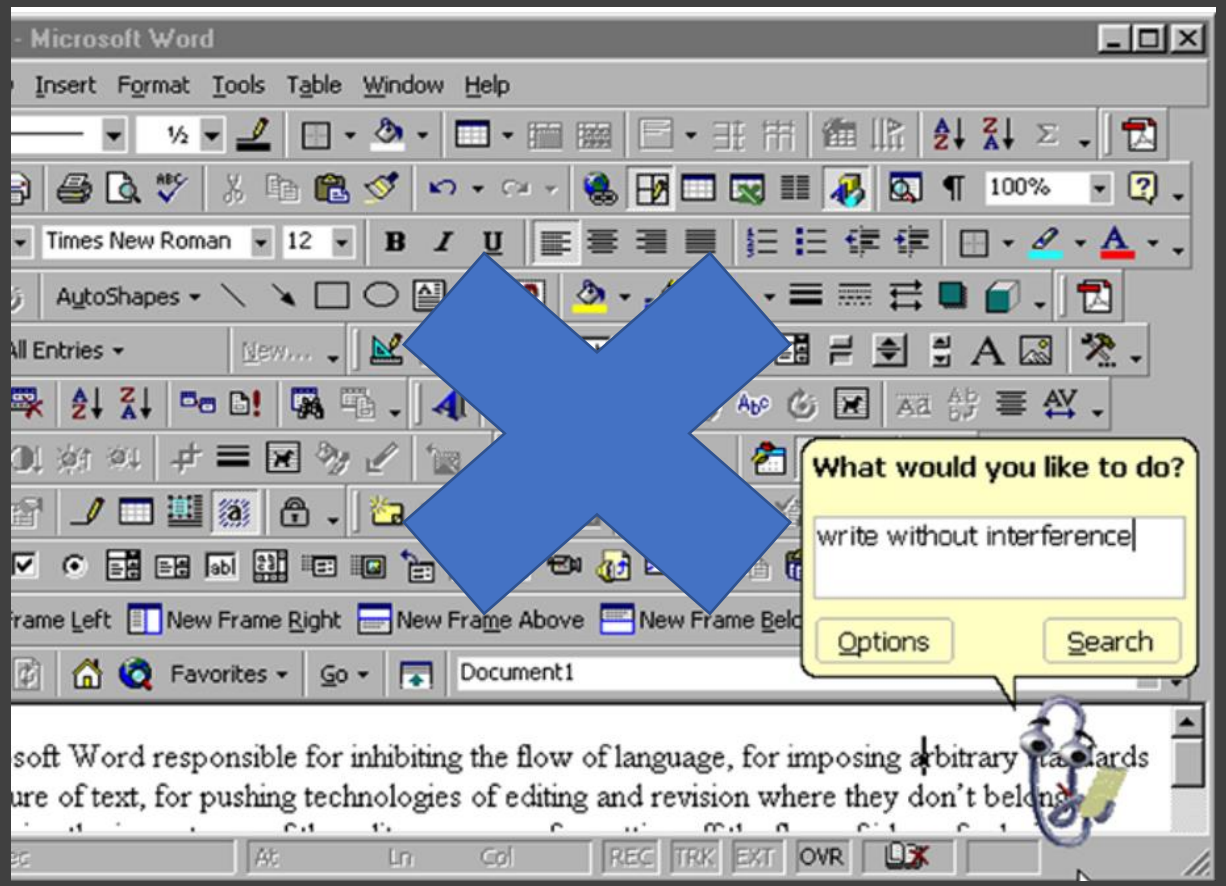
INTUITIVE

PRODUCTIVE

SPARKS JOY

INTUITIVE

easy to use and understand.


Microsoft Word
Insert Format Tools Table Window Help
Times New Roman
12
AutoShapes
What would you like to do?
write without interference
Options
Search
Favorites
Go
Document1
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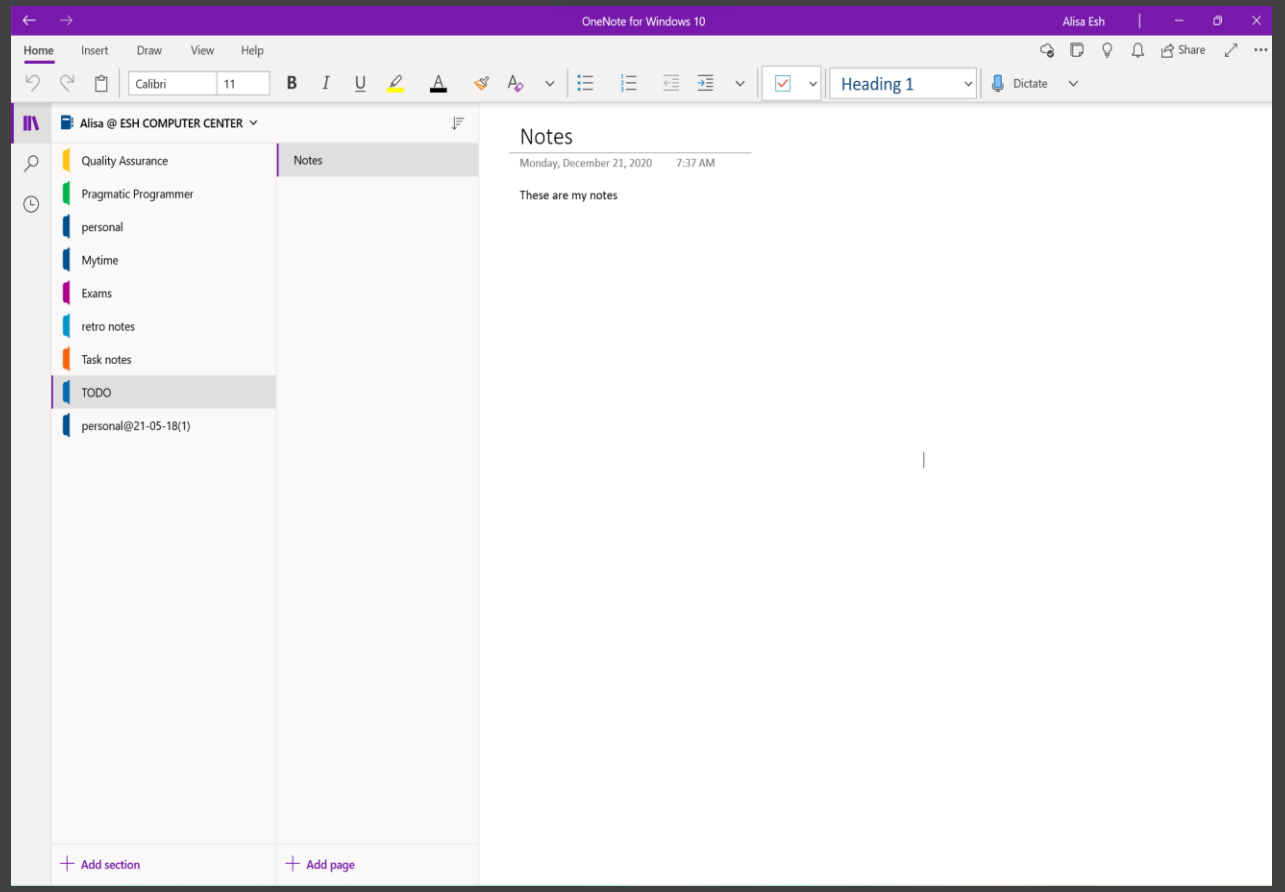
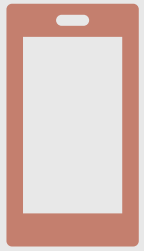

OneNote for Windows 10
Alisa Esh
Home Insert Draw View Help
Heading 1
Dictate
Alisa @ ESH COMPUTER CENTER
Quality Assurance
Pragmatic Programmer
personal
Mytime
Exams
retro notes
Task notes
TODO
personal@21-05-18(1)
Notes
Add section
Add page
Notes
Monday, December 21, 2020 7:37 AM
These are my notes

Simple

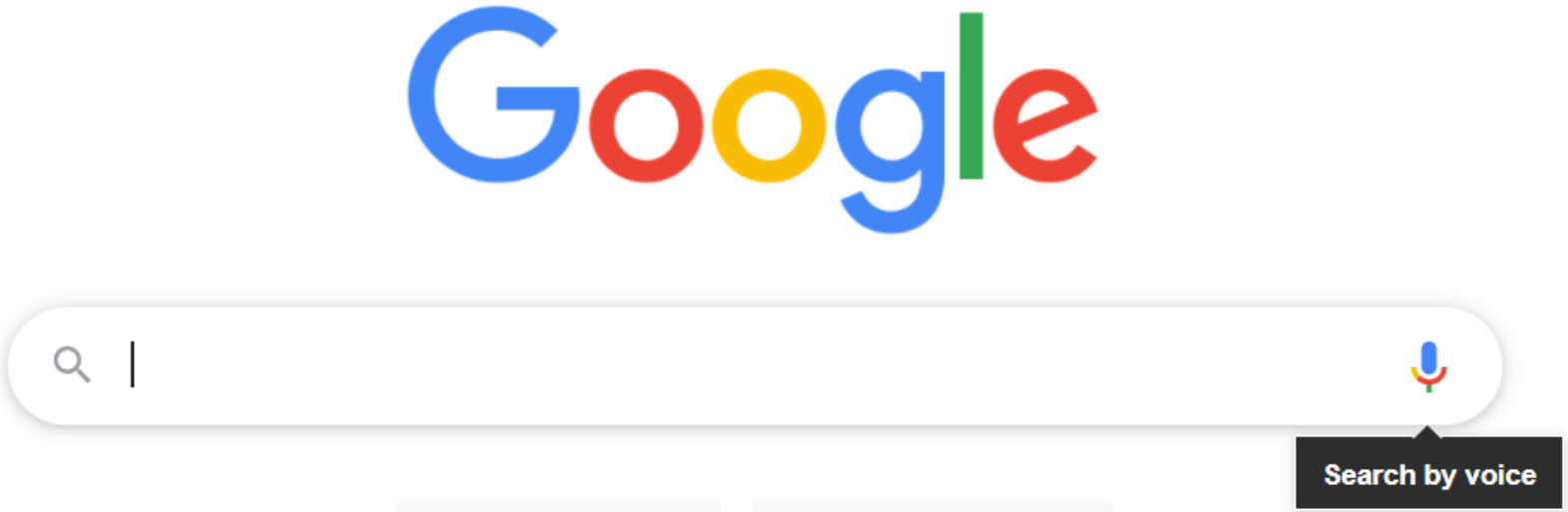
Easy to learn



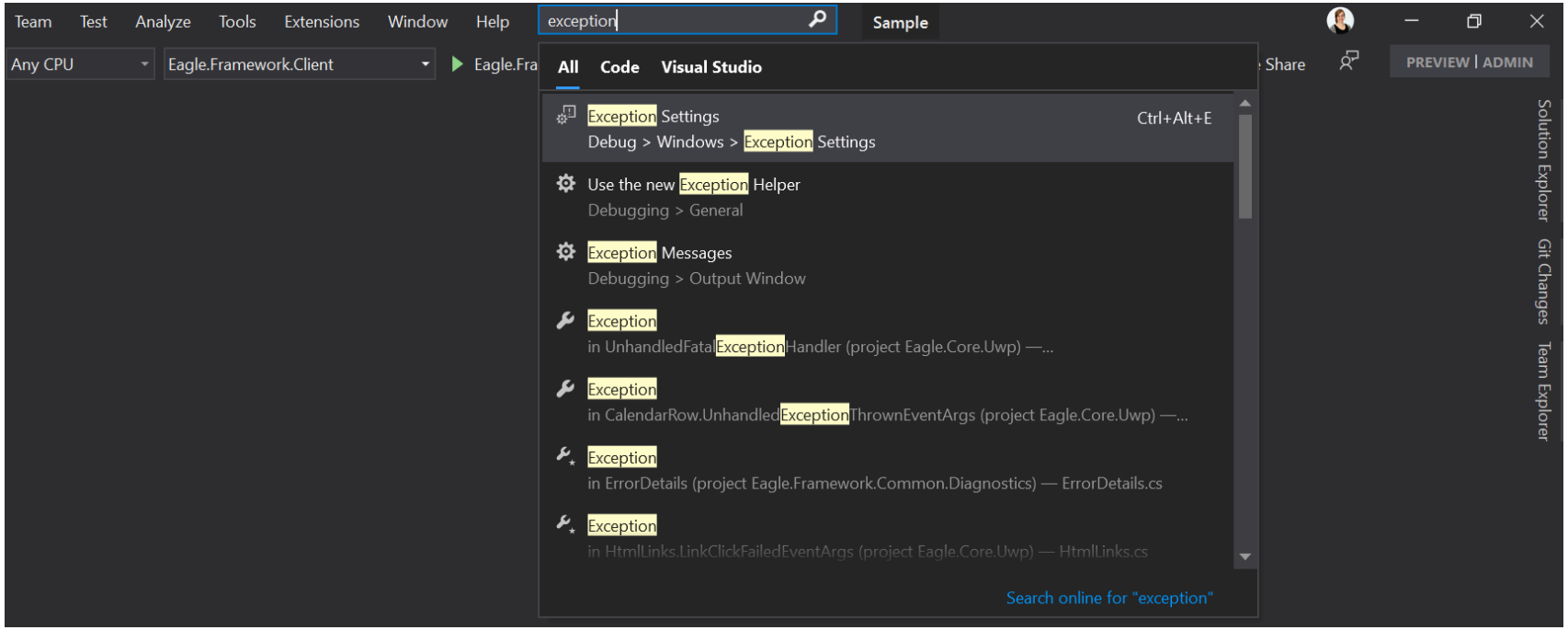
Like other apps

Tool tips

Searching



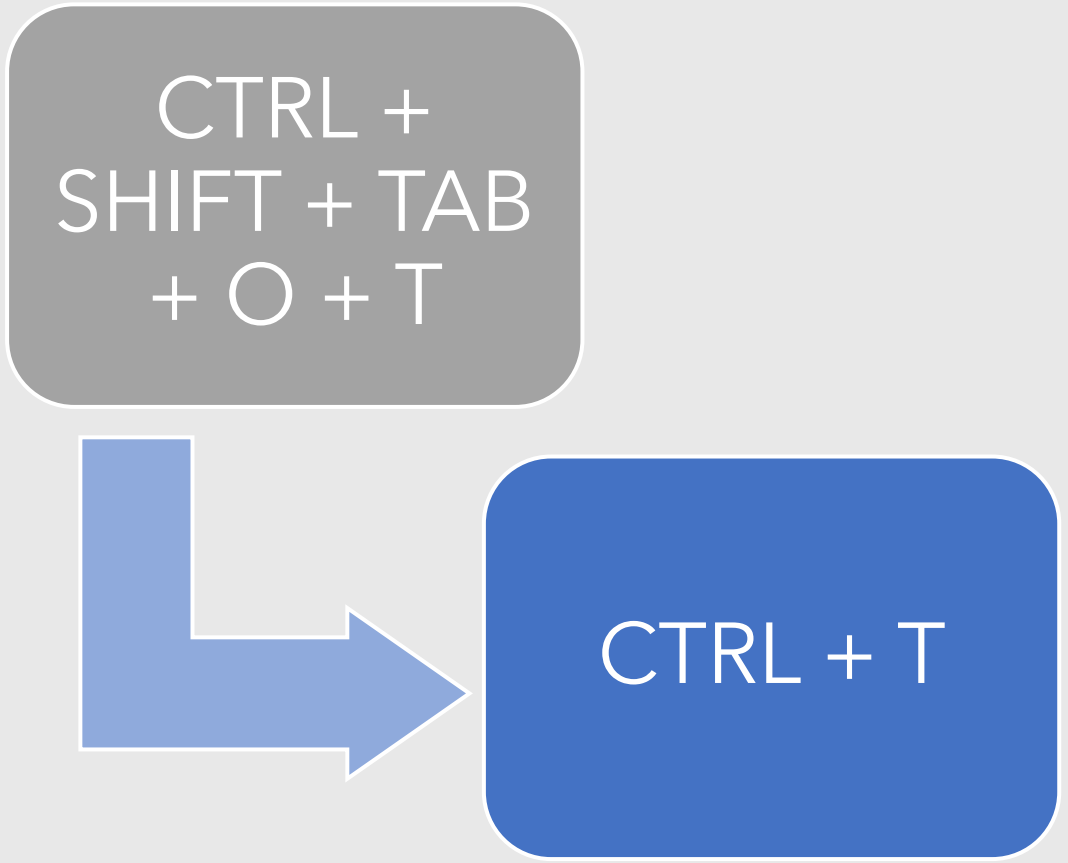
TOOL TIPS


Team
Test
Analyze
Tools
Extensions
Window
Help
exception
Sample
Any CPU
Eagle.Framework.Client
Eagle.Fra
Share
PREVIEW | ADMIN
All
Code
Visual Studio
Exception Settings
Ctrl+Alt+E
Debug > Windows > Exception Settings
Use the new Exception Helper
Debugging > General
Exception Messages
Debugging > Output Window
Exception
in UnhandledFatalExceptionHandler (project Eagle.Core.Uwp) —...
Exception
in CalendarRow.UnhandledExceptionThrownEventArgs (project Eagle.Core.Uwp) —...
Exception
in ErrorDetails (project Eagle.Framework.Common.Diagnostics) — ErrorDetails.cs
Exception
in HtmlLinks.LinkClickFailedEventArgs (project Eagle.Core.Uwp) — HtmlLinks.cs
Search online for "exception"
Solution Explorer
Git Changes
Team Explorer

SEARCHING

SIMPLE LANGUAGE

Keyboard shortcuts



Productive

Fast

Reliable

Customizable

Productive

Mobile

Keyboard friendly

Sparks Joy

- Modern
- Inspiring
- Animate
- Natural language

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