

# CodeRush Shortcuts

## Clipboard\*

| Feature     | Shortcut                             | Context                      |
|-------------|--------------------------------------|------------------------------|
| Smart Copy  | <b>Ctrl+C</b> or <b>Ctrl+Insert</b>  | No selection; caret on token |
| Smart Cut   | <b>Ctrl+X</b> or <b>Shift+Delete</b> | No selection; caret on token |
| Paste Image | <b>Ctrl+V</b> or <b>Shift+Insert</b> | Caret in a comment           |

\*To Show Embedded Images in Source Code, enable **Rich Comments** on the [Editor](#) | [All Languages](#) | [Rich Comments](#) CodeRush Options page.

## Defining Selections

| Feature                | Shortcut                           | Context          |
|------------------------|------------------------------------|------------------|
| Selection Increase     | <b>Num+</b> or <b>Ctrl+W</b>       | Editor has focus |
| Selection Decrease     | <b>Num-</b> or <b>Ctrl+Shift+W</b> | Editor has focus |
| Select CamelCase Left  | <b>Alt+Shift+Left</b>              | Editor has focus |
| Select CamelCase Right | <b>Alt+Shift+Right</b>             | Editor has focus |
| SmartNav Select        | <b>Caps+Shift+{Arrow Key}</b>      | Caret on token   |
| Multi-Select           | <b>Ctrl+Alt+Enter</b>              | Editor has focus |

Combine these **Nav** keys with **Shift** to select.

## Wrapping Selections\*

| Feature           | Shortcut                         | Context              |
|-------------------|----------------------------------|----------------------|
| Comment/Uncomment | <b>/</b> or <b>'</b> (VB)        | Multi-line selection |
| Block begin/end   | <b>B</b> or <b>Shift+[</b>       | Multi-line selection |
| try/catch         | <b>C</b>                         | Multi-line selection |
| try/finally       | <b>F</b>                         | Multi-line selection |
| try/catch/finally | <b>T</b>                         | Multi-line selection |
| Parens            | <b>Shift+0</b> or <b>Shift+9</b> | Any selection        |
| Not Parens        | <b>Shift+1</b>                   | Any selection        |

\*Enable in the CodeRush Setup Wizard on the **One-key Selection Embedding** page.

## Code Generation & Refactoring\*

| Feature              | Shortcut                      | Context                    |
|----------------------|-------------------------------|----------------------------|
| Refactor/Declare     | <b>Num 0</b> or <b>Ctrl+.</b> | Editor has focus           |
| Expand Template      | <b>Space</b> or <b>Tab</b>    | Caret after template       |
| Cycle Scope Up       | <b>Alt+Up</b>                 | At member/type declaration |
| Cycle Scope Down     | <b>Alt+Down</b>               | At member/type declaration |
| Dupl. Line/Selection | <b>Shift+Enter</b>            | Editor has focus           |
| Declare Class        | <b>Caps+C</b>                 | On undeclared class        |
| Declare Method       | <b>Caps+M</b>                 | On undeclared method       |
| Declare Property     | <b>Caps+P</b>                 | On undeclared property     |
| Declare Field        | <b>Caps+F</b>                 | On undeclared variable     |
| Declare Local        | <b>Caps+L</b>                 | On unassigned expression   |
| Declare Constant     | <b>Caps+Q</b>                 | On primitive expression    |
| Args Up/Down         | <b>Caps+/<b></b></b>          | On an argument/param list  |
| Delete Unused        | <b>Caps+Delete</b>            | Editor has focus           |
| Add Code             | <b>Caps+Insert</b>            | Editor has focus           |
| Toggle Code          | <b>Caps+Space</b>             | Editor has focus           |

\*Enable **Caps** shortcut bindings in the **Setup Wizard** on the **Caps as a Modifier** page. To learn more: [CodeRush](#) | [Support](#) | [Open Learning CodeRush Solution](#).

| Add Code (Caps+Insert)   | Context                                                     |
|--------------------------|-------------------------------------------------------------|
| Add Parameter            | In parameter/argument list                                  |
| Add Missing Constructors | On a class name                                             |
| Add to Interface         | On a new member inside a class that implements an interface |

| Delete Unused (Caps+Delete) | Context                      |
|-----------------------------|------------------------------|
| Redundant Block Delimiters  | On unneeded block delimiters |
| Redundant Constructors      | On an empty constructor      |
| Unused Locals               | On an unused local variable  |
| Unused Parameters           | On an unused parameter       |
| Unused Types                | On an unused internal type   |

## Navigation

| Feature                   | Shortcut                                | Context                        |
|---------------------------|-----------------------------------------|--------------------------------|
| Tab to Next Reference     | <b>Tab</b>                              | Caret inside identifier        |
| Tab to Previous Reference | <b>Shift+Tab</b>                        | Caret inside identifier        |
| Jump to Symbol            | <b>Ctrl+Shift+Q</b> or <b>Num Enter</b> | Editor has focus               |
| Jump to File              | <b>Ctrl+Alt+F</b>                       | Available Anywhere             |
| Jump to Everything        | <b>Ctrl+Shift+E</b>                     | Available Anywhere             |
| Jump Menu                 | <b>Ctrl+Alt+N</b> or <b>Num Del</b>     | Editor has focus               |
| Find All References       | <b>Shift+F12</b>                        | Caret on identifier            |
| Drop Marker               | <b>Alt+Home</b>                         | Editor has focus               |
| Collect Marker            | <b>Escape</b> or <b>Alt+End</b>         | Editor focused; marker dropped |
| Swap with Top Marker      | <b>Alt+Shift+Home</b>                   | Editor focused; marker dropped |
| Collect Marker and Paste  | <b>Shift+Escape</b>                     | Editor focused; marker dropped |
| Camel Case Nav Left       | <b>Alt+Left</b>                         | Caret on CamelCase token       |
| Camel Case Nav Right      | <b>Alt+Right</b>                        | Caret on CamelCase token       |
| SmartNav                  | <b>Caps+{Arrow Key}</b>                 | Caret on token                 |
| Toggle Bookmark           | <b>Ctrl+Alt+{Number}</b>                | Editor has focus               |
| Toggle Next Bookmark      | <b>Ctrl+Num+</b>                        | Editor has focus               |
| Go to Recent Bookmark     | <b>Ctrl+Num-</b>                        | Editor has focus               |

### Smart Nav

SmartNav tries to preserve relative caret position or selection as you move among sibling nodes in your code.

Caps Lock

+

↑

←

↓

→

Combine with the **Shift** key to select at the landing point.

### Extended Shortcuts

Enable on the **Numeric Keypad Bindings** page in the CodeRush Setup Wizard to get new extended shortcuts to help you **refactor**, **select**, and **navigate** through your code.

Num Lock

/

\*

-

Selection Decrease

7

8

9

+

Selection Increase

4

5

6

Enter

Jump to Symbol

1

2

3

0

.

Refactor

Jump to... (menu)

## Debugging

| Feature                     | Shortcut              | Context                        |
|-----------------------------|-----------------------|--------------------------------|
| Toggle Temporary Breakpoint | <b>Alt+F9</b>         | Debugging, editor has focus    |
| Step into Member            | <b>Ctrl+Shift+F11</b> | Debugging, on member reference |
| Show Expression Explorer    | <b>Alt+Down</b>       | Debugging, inside expression   |
| Toggle Debug Visualizer     | <b>Ctrl+Alt+D</b>     | Debugging, editor has focus    |
| Refresh/Evaluate Expression | <b>Ctrl+R</b>         | Debugging, editor has focus    |

## Test Runner

| Feature                   | Shortcut         | Context                               |
|---------------------------|------------------|---------------------------------------|
| Run Active Test           | <b>Ctrl+T, R</b> | Caret in test method                  |
| Debug Active Test         | <b>Ctrl+T, D</b> | Caret in test method                  |
| Run all tests in File     | <b>Ctrl+T, F</b> | Caret in file containing a test class |
| Run all tests in Solution | <b>Ctrl+T, S</b> | Available anywhere                    |
| Repeat Last Test Run      | <b>Ctrl+T, L</b> | Available anywhere                    |
| Show unit test runner     | <b>Ctrl+T, T</b> | Available anywhere                    |

| Toggle Code (Caps+Space)       | Context                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Implicit/Explicit Conversion   | On a local variable type or <b>var</b> keyword                                                                              |
| Expression Bodies              | On <b>get/set</b> keyword, member with expression body, or declaration for a member that can compress to an expression body |
| Create/Decompose Initializer   | On new instantiation with property assignments                                                                              |
| Inline Temp                    | On a temporary variable                                                                                                     |
| Conditional/Ternary/Coalescing | On <b>if</b> keyword, on ternary expressions, or on null coalescing operations                                              |
| Split/Combine Conditionals     | On <b>if</b> keyword or logical operators ( <b>&amp;&amp;</b> , <b>  </b> , etc.)                                           |
| Flatten Conditional            | On <b>if</b> keyword                                                                                                        |
| Block Delimiters               | On brace ( <b>{</b> or <b>}</b> ) or start of a child statement                                                             |
| Inline Lambda                  | On a method reference                                                                                                       |
| Convert to Function            | On a statement that returns a value in a void proc                                                                          |
| Decompose Parameter            | On a parameter with qualified property access                                                                               |

# Declare Anything Quickly

Start with the **element** you want to declare.\*

Follow the element with the shortcut for the **type** you want to create.



# CodeRush Templates

Type these declaration characters on an empty line followed by **Space** or **Tab**. You can set your CodeRush **template expansion key** in the **Setup Wizard**.

Variable

For locals, fields, and parameters.

V +

New Instance

n +

Methods

Use **m** by itself for void procs.

m +

Properties

Use **r** for read-only properties.

p +

Auto-implemented

a +

XPO Properties

xp +

Type Reference

t +

Constants

Works inside a method or class.

q +

Cast

Works on an empty line or before an expression.

C +

\*Use **uppercase** letters when you need **static** members.

## Creating Types

| Type           | Char |
|----------------|------|
| Class          | c    |
| Interface      | i    |
| Struct         | s    |
| Enum           | e    |
| Abstract Class | a    |
| Delegate       | d    |
| Exception      | x    |
| Constructor    | cc   |

## Flow

| Statement | Char |
|-----------|------|
| ForEach   | fe   |
| For       | fri  |
| Switch    | sw   |
| Break     | br   |
| Continue  | co   |

## System

| Type      | Char |
|-----------|------|
| Boolean   | b    |
| Byte      | by   |
| Char      | c    |
| DateTime  | d8   |
| Decimal   | de   |
| Double    | d    |
| EventArgs | ea   |
| Exception | x    |
| Guid      | g    |
| Int16     | sh   |
| Int32     | i    |
| Int64     | l    |
| IntPtr    | ip   |
| Object    | o    |
| Single    | si   |
| String    | s    |
| TimeSpan  | ts   |
| Type      | ty   |
| UInt32    | u    |

## Other Types

| Type          | Char |
|---------------|------|
| {Active Type} | /    |
| {Paste}       | \    |
| Regex         | rx   |
| StringBuilder | sb   |

## System.Drawing

| Type       | Char |
|------------|------|
| Bitmap     | bt   |
| Brush      | br   |
| Color      | cl   |
| Font       | fn   |
| Graphics   | gx   |
| Pen        | pn   |
| Point      | p    |
| PointF     | pf   |
| Rectangle  | r    |
| RectangleF | rf   |
| Size       | z    |
| SizeF      | zf   |

## System.Net

| Type            | Char |
|-----------------|------|
| FileWebRequest  | fwq  |
| FileWebResponse | fwr  |
| HttpWebRequest  | hwq  |
| HttpWebResponse | hwr  |
| WebRequest      | wq   |
| WebResponse     | wr   |

## System.Data.SqlClient

| Type                   | Char |
|------------------------|------|
| SqlClientPermission    | qcp  |
| SqlCommand             | qc   |
| SqlCommandBuilder      | qcb  |
| SqlConnection          | qn   |
| SqlDataAdapter         | qda  |
| SqlDataReader          | qdr  |
| SqlParameter           | qp   |
| SqlParameterCollection | qpc  |
| SqlTransaction         | qt   |

## Microsoft.SharePoint

| Type                   | Char |
|------------------------|------|
| SPContentType          | spct |
| SPContext.Current.Site | spcs |
| SPContext.Current.Web  | spcw |
| SPField                | spf  |
| SPList                 | spl  |
| SPListItem             | spli |
| SPSite                 | sps  |
| SPWeb                  | spw  |

## System.Windows.Media

| Type                | Char |
|---------------------|------|
| Brush               | br   |
| Color               | cl   |
| FontFamily          | ff   |
| HitTestResult       | htr  |
| LinearGradientBrush | lgb  |
| Pen                 | pn   |
| SolidColorBrush     | scb  |
| Visual              | vi   |
| VisualBrush         | vb   |

## System.Data

| Type        | Char |
|-------------|------|
| DataRow     | dr   |
| DataRowView | drv  |
| DataSet     | ds   |
| DataTable   | dt   |
| DataRowView | dv   |

## System.Threading

| Type             | Char |
|------------------|------|
| ManualResetEvent | mre  |
| Monitor          | mo   |
| Thread           | t    |

## System.IO

| Type         | Char |
|--------------|------|
| StreamReader | sr   |
| StreamWriter | sw   |

## System.Xml

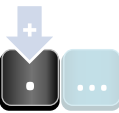
| Type          | Char |
|---------------|------|
| XmlAttribute  | xa   |
| XmlComment    | xc   |
| XmlDocument   | xd   |
| XmlElement    | xe   |
| XmlException  | xx   |
| XmlNode       | xn   |
| XmlSerializer | xs   |
| XmlText       | xt   |
| XmlTextReader | xtr  |
| XmlTextWriter | xtw  |
| XmlWriter     | xw   |

## System.Windows

| Type             | Char |
|------------------|------|
| FrameworkElement | fe   |
| Point            | p    |
| Rect             | r    |
| Thickness        | th   |
| Size             | z    |
| Vector           | v    |
| Visual           | vi   |
| VisualBrush      | vb   |

## Generic Collections [1]

| Generic Type         | Char |
|----------------------|------|
| BindingList          | bl   |
| Collection           | c    |
| Comparer             | cmp  |
| EqualityComparer     | ec   |
| HashSet              | hs   |
| ICollection          | ic   |
| IEnumerable          | ie   |
| LinkedList           | ll   |
| LinkedListNode       | lln  |
| List                 | l    |
| ObservableCollection | oc   |
| Queue                | q    |
| ReadOnlyCollection   | roc  |
| Stack                | k    |
| SortedSet            | ss   |
| XPCollection         | xcl  |



Follow these with a "." plus the shortcut for the parameter. For example, "**nl.i**" creates a new List of integers.

## Generic Collections [2]

| Generic Type     | Char |
|------------------|------|
| Dictionary       | d    |
| KeyValuePair     | kvp  |
| SortedDictionary | sd   |
| SortedList       | sl   |



Follow these with a "." plus the two parameter shortcuts separated by a **comma**. For example, "**nd.s,i**" creates a **new Dictionary** keyed by **strings** and holding **ints**.

Change or add more type shortcuts on the **Editor | All Languages | Template Name Variables** options page (Language: **Neutral**).

## Test Cases

| Element/Assert     | Shortcut |
|--------------------|----------|
| Test Fixture       | t        |
| Test Method        | t        |
| Assert.AreEqual    | ae       |
| Assert.AreNotEqual | ane      |
| Assert.AreSame     | as       |
| Assert.AreNotSame  | ans      |
| Assert.IsTrue      | at       |
| Assert.IsFalse     | af       |
| Assert.IsNull      | an       |
| Assert.IsNotNull   | ann      |

## Cross-Platform .NET App UI (XAF)

| Controller/Action                   | Char  |
|-------------------------------------|-------|
| ViewController                      | xcv   |
| ViewController for DetailView       | xcvd  |
| ViewController for ListView         | xcvl  |
| ObjectViewController for DetailView | xcvod |
| ObjectViewController for ListView   | xcvol |
| WindowController                    | xcw   |
| SimpleAction                        | xas   |
| SingleChoiceAction                  | xac   |
| ParametrizedAction                  | xap   |
| PopupWindowShowAction               | xapw  |

## .NET ORM Library (XPO)

| Type/Element                  | Char |
|-------------------------------|------|
| Persistent Class              | xc   |
| Persistent Property           | xp   |
| Read-only Persistent Property | xr   |
| Associated Property           | xpa  |
| Associated Collection         | xpcl |

### Tips

- **t, f, & n** for **true, false & null**.
- **r, rt, rf, & rn** return values.
- **{TypeShortcut}.e** to get a **.Empty** reference for a struct (like **s.e** or **p.e**).