SOLIDITY TUTORIAL I

pragma

```
pragma solidity ^0.4.0

contract SimpleStorage {
 // to be defined
}
```

INTRODUCTION

- The Solidity documentation is used as input for this video tutorial and is not intended to replace the Solidity documentation.

- When reading the Solidity documentation you sometimes need additional information or code examples for a better understanding of the subject. This tutorial will hopefully provide you with these answers.

- This tutorial uses the online Remix IDE to compile and debug the Solidity smart contracts without having to install any software on your computer. An up-to-date online version is accessible at https://remix.ethereum.org.

- All my Solidity tutorials and presentations can be found at: http://www.mobilefish.com/developer/blockchain/blockchain_quickguide_solidity_tutorial.html

PRAGMA

- The pragma directive for example:

  pragma solidity ^0.4.0;

  specifies which solidity compiler version to be used when processing its input.

- The pragma directive works on solidity version 0.4.0 and up.

- More complex rules can be used when specifying the compiler version. The expression follows those used by https://docs.npmjs.com/misc/semver

PRAGMA

- The solidity contract used in this video can be found at: https://goo.gl/TrwKEk

- Use the latest Firefox or Chrome browser version when accessing this URL.

PRAGMA

- **pragma solidity ^0.4.0;**
  match the versions >=0.4.0 and <0.5.0

- **pragma solidity >=0.4.5;**
  match the versions 0.4.5, 0.4.6, 0.5.1, 1.0.0 but not the versions 0.4.4 or 0.3.0.

- **pragma solidity 0.4.0 || 0.4.3 - 0.4.5;**
  match the versions 0.4.0, 0.4.3, 0.4.4, 0.4.5 but not the versions 0.4.1 or 0.4.6.

- **pragma solidity >0.4.3 <=0.4.6;**
  match the versions 0.4.4, 0.4.5, 0.4.6 but not the versions 0.4.3 or 0.4.7.

PRAGMA

- **pragma solidity 0.4.*;**
  match the versions >=0.4.0 and <0.5.0

- **pragma solidity ~0.4.2;**
  match the versions >=0.4.2 and <0.(4+1).0